

# ThinkPad® Laptops

**W.E.**

## Product Specifications Reference

Version 496, October 2016

Version 496, October 2016

ThinkPad® Laptops

## Including:

- L Series
- T Series
- P Series
- 11e Series
- 13 Series
- X Series
- E Series

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# Summary of Changes

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This section describes the technical changes made in this edition.

This edition might also include minor corrections and editorial changes which are not identified.

## October 12, 2016 - Version 496

### Additions in this update

#### ► New product(s)

None

#### ► New model(s)

ThinkPad L460 new models announced October 2016

ThinkPad T460p new models announced October 2016

ThinkPad T460s new models announced October 2016

ThinkPad T560 new models announced October 2016

ThinkPad P50 new models announced October 2016

ThinkPad 11e (3<sup>rd</sup> Gen) Chromebook new models announced October 2016

ThinkPad E450 new models announced October 2016

ThinkPad E460 new models announced October 2016

ThinkPad E550 new models announced October 2016

ThinkPad E560 new models announced October 2016

#### ► Others

None

### Withdrawals in this update

#### ► Withdrawn product(s)

None



**ThinkPad L450 Platform Specifications** *Product Specifications Reference (PSREF)*

**ThinkPad L450 Platform Specifications** *Product Specifications Reference (PSREF)*

Processor	Intel® Celeron® processor, 4th Generation Intel Core™ i5 Processor, or 5th Generation Intel Core i3 / i5 / i7 Processor							Dimensions <sup>3</sup> Weight <sup>2</sup>	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm				
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Models	3-cell		6-cell	
	Cel 3205U	2	4	1.5 GHz	-	2MB	DDR3L-1600	Intel HD Graphics	Integrated	4.25 lb / 1.93 kg		4.43 lb / 2.01 kg	
	i5-4300U			1.9 GHz	2.9 GHz	3MB		Intel HD Graphics 4400	Discrete	4.30 lb / 1.95 kg		4.50 lb / 2.04 kg	
	i3-5005U			2 GHz	-	3MB		Intel HD Graphics 5500					
	i5-5200U			2.2 GHz	2.7 GHz	3MB							
	i5-5300U			2.3 GHz	2.9 GHz	3MB							
	i7-5500U			2.4 GHz	3 GHz	4MB							
Graphics	Intel HD Graphics or Intel HD Graphics 4400 / 5500 in processor only, or Intel HD Graphics 5500 in processor and AMD Radeon™ R5 M240, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)							Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic				
Chipset	Intel SoC (System on Chip) platform							Smart card reader	Optional: Smart card reader				
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Display	Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS							Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Multi-touch	None							Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory							Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack				
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot							Keyboard	6-row, spill-resistant, multimedia Fn keys				
Optical	None							UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Ethernet	Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville)							Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							Security chip	Trusted Platform Module, TCG 1.2-compliant				
WLAN <sup>4</sup>	One of the following, configurable by model: • 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card							ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures				
WWAN (optional)	One of the following, configurable by model: • Wireless WAN upgradable • Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card							vPro (optional)	Intel vPro Technology				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider							Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
								Battery type	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
								Max battery life <sup>10</sup>	Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh	
									Integrated	5.2 hr	10.7 hr	16 hr	
									Discrete	5.1 hr	10.6 hr	15.9 hr	
								AC adapter	45W AC adapter or 65W AC adapter				
								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions)				
								Limited warranty <sup>12</sup>	One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)				
								Mil-Spec test	MIL-STD-810G military certification				
								Environment	EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant				

# ThinkPad L450 20DS (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20DS0001++	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L450 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Dimensions <sup>3</sup>	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Cel 3205U	2	1.5 GHz	-	2MB	DDR3L-1600	Weight <sup>2</sup>	Models	3-cell	6-cell	
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Integrated	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg		
	i3-5005U		2 GHz	-	3MB		Discrete	4.30 lb / 1.95 kg	4.50 lb / 2.04 kg		
	i5-5200U		2.2 GHz	2.7 GHz	3MB						
	i5-5300U		2.3 GHz	2.9 GHz	3MB						
	i7-5500U		2.4 GHz	3 GHz	4MB						
							Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic			
Graphics	Intel HD Graphics 4400 or 5500 in processor only, or Intel HD Graphics 5500 in processor and AMD Radeon™ R5 M240, 2GB memory						Smart card reader	Optional: Smart card reader			
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch	None						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Keyboard	6-row, spill-resistant, multimedia Fn keys			
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Optical	None						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology			
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Battery type	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
							Max battery life <sup>10</sup>	Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh
								Integrated	5.2 hr	10.7 hr	16 hr
								Discrete	5.1 hr	10.6 hr	15.9 hr
							AC adapter	45W AC adapter or 65W AC adapter			
							Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64			
								Win8.1 64: Windows 8.1 64-bit			
								Win8.1 P64: Windows 8.1 Pro 64-bit			
								Win10 P64: Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

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# ThinkPad L450 20DT (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20DT0004++	i3-5005U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT000W++	i3-5005U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT0000++	i5-5200U	No	HD 5500	8GBx1	14" FHD IPS	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT0001++	i5-5200U	No	HD 5500	8GBx1	14" FHD IPS	256G SSD Opal2	None	7265 ac+BT	N5321	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT0002++	i5-5200U	No	HD 5500	4GBx1	14" FHD IPS	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT0003++	i5-5200U	No	HD 5500	4GBx1	14" FHD IPS	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT0005++	i5-5200U	No	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT000Q++	i5-5200U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DT001F++	i3-5005U	No	HD 5500	4GBx1	14" FHD IPS	192G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	04/15
20DT001E++	i5-5200U	No	HD 5500	4GBx1	14" FHD IPS	192G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	04/15
20DT001H++	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	192G SSD	None	7265 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	05/15
20DT001G++	Cel 3205U	No	Intel HD	4GBx1	14" HD	192G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	05/15
20DT001L++	i3-5005U	No	HD 5500	4GBx1	14" FHD IPS	192G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001M++	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	192G SSD	None	7265 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001N++	i5-5200U	No	HD 5500	4GBx1	14" FHD IPS	192G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001R++	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001T++	i5-5200U	No	HD 5500	8GBx1	14" FHD IPS	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001U++	i5-5200U	No	HD 5500	4GBx1	14" FHD IPS	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001J++	Cel 3205U	No	Intel HD	4GBx1	14" HD	192G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001P++	i3-5005U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DT001W++	i5-5200U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	08/15

• For detailed platform specifications, please see [ThinkPad L450 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider														
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Dimensions <sup>3</sup>	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm														
	Cel 3205U	2	1.5 GHz	-	2MB	DDR3L-1600	Weight <sup>2</sup>	<table><tr><td>Models</td><td>3-cell</td><td>6-cell</td></tr><tr><td>Integrated</td><td>4.25 lb / 1.93 kg</td><td>4.43 lb / 2.01 kg</td></tr><tr><td>Discrete</td><td>4.30 lb / 1.95 kg</td><td>4.50 lb / 2.04 kg</td></tr></table>			Models	3-cell	6-cell	Integrated	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg	Discrete	4.30 lb / 1.95 kg	4.50 lb / 2.04 kg			
	Models		3-cell	6-cell																		
	Integrated		4.25 lb / 1.93 kg	4.43 lb / 2.01 kg																		
	Discrete		4.30 lb / 1.95 kg	4.50 lb / 2.04 kg																		
	i5-4300U		1.9 GHz	2.9 GHz	3MB																	
	i3-5005U		2 GHz	-	3MB																	
i5-5200U	2.2 GHz	2.7 GHz	3MB																			
i5-5300U	2.3 GHz	2.9 GHz	3MB																			
i7-5500U	2.4 GHz	3 GHz	4MB																			
Graphics	Intel HD Graphics 4400 or 5500 in processor only, or Intel HD Graphics 5500 in processor and AMD Radeon™ R5 M240, 2GB memory						Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Chipset	Intel SoC (System on Chip) platform 16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Smart card reader	Optional: Smart card reader														
Memory							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)														
Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS None						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)														
Multi-touch							Camera (optional)	HD720p resolution, low light sensitive, fixed focus														
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack														
M.2 SSD (opt)							Keyboard	6-row, spill-resistant, multimedia Fn keys														
Optical	M.2 Solid State Drive (SSD), via M.2 card slot None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch														
Ethernet							Security	Power-on password, hard disk password, supervisor password, security keyhole														
Bluetooth™	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant														
WLAN <sup>4</sup>							vPro (optional)	Intel vPro Technology														
	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor														
WWAN (optional)							Battery type	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)														
	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Max battery life <sup>10</sup>	<table><tr><td>Models</td><td>3-cell 23Wh</td><td>6-cell 48Wh</td><td>6-cell 72Wh</td></tr><tr><td>Integrated</td><td>5.2 hr</td><td>10.7 hr</td><td>16 hr</td></tr><tr><td>Discrete</td><td>5.1 hr</td><td>10.6 hr</td><td>15.9 hr</td></tr></table>			Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh	Integrated	5.2 hr	10.7 hr	16 hr	Discrete	5.1 hr	10.6 hr	15.9 hr
Models							3-cell 23Wh	6-cell 48Wh	6-cell 72Wh													
Integrated	5.2 hr	10.7 hr	16 hr																			
Discrete	5.1 hr	10.6 hr	15.9 hr																			
							AC adapter	45W AC adapter or 65W AC adapter														
							Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64														
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID														

See footnotes for more detailed information

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# ThinkPad L450 20DT (TopSeller) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20DT0024++	i3-5005U	No	HD 5500	4GBx1	14" HD	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	3-onsite	No	09/15

• For detailed platform specifications, please see [ThinkPad L450 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider																				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Dimensions <sup>3</sup> 14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm																					
	Cel 3205U	2	1.5 GHz	-	2MB	DDR3L-1600	Weight <sup>2</sup>																					
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Models		3-cell		6-cell																	
	i3-5005U		2 GHz	-	3MB		Integrated		4.25 lb / 1.93 kg		4.43 lb / 2.01 kg																	
	i5-5200U		2.2 GHz	2.7 GHz	3MB		Discrete		4.30 lb / 1.95 kg		4.50 lb / 2.04 kg																	
	i5-5300U		2.3 GHz	2.9 GHz	3MB		Case material					PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic																
	i7-5500U		2.4 GHz	3 GHz	4MB		Smart card reader					Optional: Smart card reader																
Intel HD Graphics 4400 or 5500 in processor only, or Intel HD Graphics 5500 in processor and AMD Radeon™ R5 M240, 2GB memory						Media reader					4-in-1 reader (MMC, SD, SDHC, SDXC)																	
						Ports					Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)																	
Graphics							Camera (optional)					HD720p resolution, low light sensitive, fixed focus																
Chipset	Intel SoC (System on Chip) platform						Audio support					HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack																
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Keyboard					6-row, spill-resistant, multimedia Fn keys																
Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS						UltraNav™					TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch																
Multi-touch	None						Security					Power-on password, hard disk password, supervisor password, security keyhole																
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Security chip					Trusted Platform Module, TCG 1.2-compliant																
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						vPro (optional)					Intel vPro Technology																
Optical	None						Fingerprint reader					Optional: Fingerprint reader on the keyboard bezel, swipe sensor																
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Battery type					Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)																
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Max battery life <sup>10</sup>					<table><tr><td>Models</td><td>3-cell 23Wh</td><td>6-cell 48Wh</td><td>6-cell 72Wh</td></tr><tr><td>Integrated</td><td>5.2 hr</td><td>10.7 hr</td><td>16 hr</td></tr><tr><td>Discrete</td><td>5.1 hr</td><td>10.6 hr</td><td>15.9 hr</td></tr></table>					Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh	Integrated	5.2 hr	10.7 hr	16 hr	Discrete	5.1 hr	10.6 hr	15.9 hr
Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh																									
Integrated	5.2 hr	10.7 hr	16 hr																									
Discrete	5.1 hr	10.6 hr	15.9 hr																									
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						AC adapter					45W AC adapter or 65W AC adapter																
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Preload					Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 P64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64																
							Limited warranty <sup>12</sup>					1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID																

See footnotes for more detailed information

(G-LR1-5) © Lenovo

# ThinkPad L450 20DS

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20DS001Q++	i5-4300U	vPro	HD 4400	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DS0000++	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	None	Finger	6(48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DS0005++	i5-5300U	vPro	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	1-depot	No	01/15

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L450 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Dimensions <sup>3</sup> 14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Cel 3205U	2	1.5 GHz	-	2MB	DDR3L-1600	Weight <sup>2</sup>			
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Models			
	i3-5005U		2 GHz	-	3MB		Integrated			
	i5-5200U		2.2 GHz	2.7 GHz	3MB		Discrete			
	i5-5300U		2.3 GHz	2.9 GHz	3MB		4.25 lb / 1.93 kg			
	i7-5500U		2.4 GHz	3 GHz	4MB		4.43 lb / 2.01 kg			
							3-cell			
							6-cell			
							4.30 lb / 1.95 kg			
							4.50 lb / 2.04 kg			
Graphics	Intel HD Graphics 4400 or 5500 in processor only, or Intel HD Graphics 5500 in processor and AMD Radeon™ R5 M240, 2GB memory						Case material PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic			
Chipset	Intel SoC (System on Chip) platform						Smart card readerOptional: Smart card reader			
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)			
Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS						Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Multi-touch	None						Camera (optional)HD720p resolution, low light sensitive, fixed focus			
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard 6-row, spill-resistant, multimedia Fn keys			
Optical	None						UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip Trusted Platform Module, TCG 1.2-compliant			
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional) Intel vPro Technology			
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint readerOptional: Fingerprint reader on the keyboard bezel, swipe sensor			
							Battery type Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
							Max battery life <sup>10</sup>			
							Models			
							3-cell 23Wh			
							6-cell 48Wh			
							6-cell 72Wh			
							Integrated			
							5.2 hr			
							10.7 hr			
							16 hr			
							Discrete			
							5.1 hr			
							10.6 hr			
							15.9 hr			
AC adapter	45W AC adapter or 65W AC adapter						Preload			
							Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64			
							Win8.1 64: Windows 8.1 64-bit			
							Win8.1 P64: Windows 8.1 Pro 64-bit			
							Win10 P64: Windows 10 Pro 64			
							Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-LR1-2) © Lenovo

# ThinkPad L450 20DS (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20DS000X++	i5-5200U	No	HD 5500	8GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS000Y++	i5-5200U	No	HD 5500	4GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS0017++	i5-5200U	No	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001J++	i5-5200U	No	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS000U++	i5-5300U	vPro	HD 5500	4GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS000W++	i5-5300U	vPro	HD 5500	8GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS0010++	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS0015++	i5-5300U	vPro	HD 5500	8GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001B++	i5-5300U	vPro	HD 5500	8GBx1	14" HD	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001E++	i5-5300U	vPro	HD 5500	8GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001F++	i5-5300U	vPro	HD 5500	4GBx1	14" HD	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001K++	i5-5300U	vPro	HD 5500	4GBx1	14" HD	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001L++	i5-5300U	vPro	HD 5500	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15
20DS001N++	i5-5300U	vPro	HD 5500	8GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Finger	3(23wh)	45W	Win8.1 DG Win7	3-onsite	Yes	01/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L450 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Dimensions <sup>3</sup>	14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Cel 3205U	2	1.5 GHz	-	2MB	DDR3L-1600	Weight <sup>2</sup>	Models	3-cell	6-cell	
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Integrated	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg		
	i3-5005U		2 GHz	-	3MB		Discrete	4.30 lb / 1.95 kg	4.50 lb / 2.04 kg		
	i5-5200U		2.2 GHz	2.7 GHz	3MB						
	i5-5300U		2.3 GHz	2.9 GHz	3MB						
	i7-5500U		2.4 GHz	3 GHz	4MB						
Graphics	Intel HD Graphics 4400 or 5500 in processor only, or Intel HD Graphics 5500 in processor and AMD Radeon™ R5 M240, 2GB memory						Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic			
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys			
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant			
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology			
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
							Battery type	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
							Max battery life <sup>10</sup>	Models	3-cell 23Wh	6-cell 48Wh	6-cell 72Wh
								Integrated	5.2 hr	10.7 hr	16 hr
								Discrete	5.1 hr	10.6 hr	15.9 hr
							AC adapter	45W AC adapter or 65W AC adapter			
							Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64			
								Win8.1 64: Windows 8.1 64-bit			
								Win8.1 P64: Windows 8.1 Pro 64-bit			
								Win10 P64: Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

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# ThinkPad L450 20DS (Discrete)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20DS0004++	i5-5200U	No	R5 M240	4GBx1	14" FHD IPS	500G 7200	None	7265 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DS0003++	i7-5500U	No	R5 M240	8GBx1	14" FHD IPS	256G SSD Opal2	None	7265 a/b/g/n+BT	EM7345	None	Smart	720p	Finger	6(72wh)	65W	Win8.1 DG Win7	1-depot	No	01/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L450 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt) AT&T® or Verizon® LTE (4G), contract required with service provider			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Dimensions <sup>3</sup> 14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Cel 3205U	2	1.5 GHz	-	2MB	DDR3L-1600	Weight <sup>2</sup>			
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Models	3-cell	6-cell	
	i3-5005U		2 GHz	-	3MB		Integrated	4.25 lb / 1.93 kg	4.43 lb / 2.01 kg	
	i5-5200U		2.2 GHz	2.7 GHz	3MB		Discrete	4.30 lb / 1.95 kg	4.50 lb / 2.04 kg	
	i5-5300U		2.3 GHz	2.9 GHz	3MB		Case material PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic			
	i7-5500U		2.4 GHz	3 GHz	4MB		Smart card readerOptional: Smart card reader			
Graphics Intel HD Graphics 4400 or 5500 in processor only, or Intel HD Graphics 5500 in processor and AMD Radeon™ R5 M240, 2GB memory						Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)				
Chipset Intel SoC (System on Chip) platform						PortsThree USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Camera (optional)HD720p resolution, low light sensitive, fixed focus			
Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS						Audio supportHD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
Multi-touch	None						Keyboard6-row, spill-resistant, multimedia Fn keys			
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						UltraNav™TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
M.2 SSD (opt)	Some: SSHD with 8GB NAND flash memory						SecurityPower-on password, hard disk password, supervisor password, security keyhole			
Optical	M.2 Solid State Drive (SSD), via M.2 card slot						Security chipTrusted Platform Module, TCG 1.2-compliant			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						vPro (optional)Intel vPro Technology			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint readerOptional: Fingerprint reader on the keyboard bezel, swipe sensor			
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card		7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card				Battery typeLi-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
WWAN (optional)	7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card		7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card				Max battery life <sup>10</sup>			
	Upg: Wireless WAN upgradable		N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card				Models			
	EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Integrated			
							Discrete			
						AC adapter45W AC adapter or 65W AC adapter				
						PreloadWin8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
						Win8.1 64: Windows 8.1 64-bit				
						Win8.1 P64: Windows 8.1 Pro 64-bit				
						Win10 P64: Windows 10 Pro 64				
						Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				

See footnotes for more detailed information

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ThinkPad L460



Lenovo® ThinkPad L460



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Lenovo ThinkPad L460



Lenovo ThinkPad L460

# ThinkPad L460 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor								Smart card readerOptional: Smart card reader													
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)												
	Cel 3855U	2	4	1.6 GHz	-	2MB	DDR3L-1600	Intel HD graphics 510	Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)												
	i3-6100U			2.3 GHz	-	3MB			Intel HD graphics 520													
	i5-6200U			2.3 GHz	2.8 GHz	3MB																
	i5-6300U			2.4 GHz	3.0 GHz	3MB																
	i7-6500U			2.5 GHz	3.1 GHz	4MB																
i7-6600U	2.6 GHz			3.4 GHz	4MB																	
Graphics	Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)								Camera (optional)	HD720p resolution, low light sensitive, fixed focus												
Chipset	Intel SoC (System on Chip) platform 32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets								Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack												
									Keyboard	6-row, spill-resistant, multimedia Fn keys												
Memory									UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad												
Display									Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio													
Multi-touch	None								Security	Power-on password, hard disk password, supervisor password, security keyhole												
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory								Security chip	Trusted Platform Module, TCG 1.2-compliant												
Optical									None				ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures								
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								vPro (optional)	Intel vPro Technology												
WLAN <sup>4</sup>	One of the following, configurable by model: • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card								Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel												
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)												
WWAN (optional)	One of the following, configurable by model: • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)								Max battery life <sup>10</sup> (MobileMark® 2014)	<table><tr><td>Models</td><td>3-cell</td><td>6-cell 48Wh</td><td>6-cell 72Wh</td></tr><tr><td>Max battery life</td><td>6.93 hr</td><td>12.7 hr</td><td>20.53 hr</td></tr></table>				Models	3-cell	6-cell 48Wh	6-cell 72Wh	Max battery life	6.93 hr	12.7 hr	20.53 hr	
Models	3-cell	6-cell 48Wh	6-cell 72Wh																			
Max battery life	6.93 hr	12.7 hr	20.53 hr																			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								AC adapter	45W or 65W AC adapter												
Dimensions <sup>3</sup>	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm								Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)												
Weight <sup>2</sup>	<table><tr><td>Models</td><td>3-cell</td><td>6-cell</td></tr><tr><td>Integrated model</td><td>4.25 lb / 1.93 kg</td><td>4.45 lb / 2.02 kg</td></tr><tr><td>discrete model</td><td>4.3 lb / 1.95 kg</td><td>4.5 lb / 2.04 kg</td></tr></table>								Models	3-cell	6-cell	Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg	discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg	Limited warranty <sup>12</sup>	One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)			
Models	3-cell	6-cell																				
Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg																				
discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg																				
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								Mil-Spec test	MIL-STD-810G military certification												
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant												

# ThinkPad L460 20FU (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FU001J++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU001L++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU001Y++	i3-6100U	No	HD 520	4GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU0007++	i3-6100U	No	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU001K++	i5-6200U	No	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FU002M++	i3-6100U	No	HD 520	4GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	06/16
20FU002N++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	06/16
20FU003V++	i7-6600U	No	HD 520	16GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU003W++	i7-6600U	No	HD 520	16GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU003X++	i7-6600U	No	HD 520	16GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU003Y++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU0040++	i7-6600U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU0041++	i7-6600U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU0042++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	1T 5400	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU0043++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU0044++	i5-6200U	No	HD 520	8GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU0045++	i5-6200U	No	HD 520	4GBx1	14.0" HD	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20FU0046++	i3-6100U	No	HD 520	4GBx1	14.0" HD	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	10/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L460 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	3-cell	6-cell	
	Cel 3855U	2	1.6 GHz	-	2MB		DDR3L-1600	Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg	
	i3-6100U		2.3 GHz	-	3MB			discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg	
	i5-6200U		2.3 GHz	2.8 GHz	3MB						
	i5-6300U		2.4 GHz	3.0 GHz	3MB						
	i7-6500U		2.5 GHz	3.1 GHz	4MB						
i7-6600U	2.6 GHz		3.4 GHz	4MB							
Graphics	Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory					Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic				
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader				
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio					Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Multi-touch	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS					Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Storage	None					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack				
Optical	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high					Keyboard	6-row, spill-resistant, multimedia Fn keys				
Ethernet	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
WLAN <sup>4</sup>	Some: SSHD with 8GB NAND flash memory					Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	None					Security chip	Trusted Platform Module, TCG 1.2-compliant				
WWAN (optional)	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					vPro (optional)	Intel vPro Technology				
SIM card (opt)	Upg: Wireless WAN upgradable					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel				
	EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card					Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
	ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3-cell	6-cell 48Wh	6-cell 72Wh	
	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					(Max battery life	6.93 hr			12.7 hr	20.53 hr
						AC adapter	45W or 65W AC adapter				
						Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64: Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				

See footnotes for more detailed information

(G-LR2-1) © Lenovo

# ThinkPad L460 20FU (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FU001R++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	01/16
20FU002D++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	04/16
20FU002C++	i5-6200U	No	HD 520	8GBx1	14.0" HD	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	04/16
20FU002E++	i3-6100U	No	HD 520	4GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	05/16
20FU002G++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	05/16
20FU002H++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	05/16
20FU002J++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	500G 5400 SSHD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	05/16
20FU002K++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	05/16
20FU000A++	i5-6200U	No	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	05/16
20FU002F++	i3-6100U	No	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	05/16
20FU002T++	i7-6600U	No	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	06/16
20FU002U++	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	06/16
20FU002V++	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	06/16
20FU002L++	i5-6200U	No	HD 520	8GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	06/16
20FU002W++	i3-6100U	No	HD 520	4GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16
20FU002X++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16
20FU002Y++	i7-6600U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16
20FU0030++	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16
20FU0031++	i3-6100U	No	HD 520	4GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16
20FU0032++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16
20FU0033++	i7-6600U	No	HD 520	8GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16
20FU0034++	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16

• For detailed platform specifications, please see [ThinkPad L460 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell		6-cell			
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600		Integrated model	4.25 lb / 1.93 kg		4.45 lb / 2.02 kg			
	i3-6100U		2.3 GHz	-	3MB			discrete model	4.3 lb / 1.95 kg		4.5 lb / 2.04 kg			
	i5-6200U		2.3 GHz	2.8 GHz	3MB									
	i5-6300U		2.4 GHz	3.0 GHz	3MB									
	i7-6500U		2.5 GHz	3.1 GHz	4MB									
	i7-6600U		2.6 GHz	3.4 GHz	4MB									
							Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic						
							Smart card reader	Optional: Smart card reader						
							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)						
							Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)						
							Camera (optional)	HD720p resolution, low light sensitive, fixed focus						
							Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack						
							Keyboard	6-row, spill-resistant, multimedia Fn keys						
							UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad						
							Security	Power-on password, hard disk password, supervisor password, security keyhole						
							Security chip	Trusted Platform Module, TCG 1.2-compliant						
							vPro (optional)	Intel vPro Technology						
							Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel						
							Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)						
							Max battery life <sup>10</sup>	Models			3-cell	6-cell 48Wh	6-cell 72Wh	
							(MobileMark® 2014)	Max battery life			6.93 hr		12.7 hr	20.53 hr
							AC adapter	45W or 65W AC adapter						
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64						
								Win10 P64: Windows 10 Pro 64						
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID						

Graphics	Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory					
	Chipset	Intel SoC (System on Chip) platform				
	Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets				
	Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS				
	Multi-touch	None				
	Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory				
	Optical	None				
	Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)				
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					

See footnotes for more detailed information

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# ThinkPad L460 20FU (TopSeller) - Windows 10 - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FU0035++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16
20FU0036++	i5-6200U	No	HD 520	8GBx1	14.0" HD	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	07/16
20FU0037++	i7-6600U	vPro	HD 520	8GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU0038++	i7-6600U	vPro	HD 520	8GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU0039++	i5-6200U	No	HD 520	4GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU003A++	i5-6200U	No	HD 520	4GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU003B++	i5-6200U	No	HD 520	8GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU003C++	i5-6200U	No	HD 520	4GBx1	14.0" HD	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU003D++	i5-6200U	No	HD 520	4GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU003E++	i7-6600U	vPro	HD 520	16GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU003F++	i5-6200U	No	HD 520	4GBx1	14.0" HD	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU003G++	i7-6600U	No	HD 520	8GBx1	14.0" HD	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU003H++	i7-6600U	vPro	HD 520	16GBx1	14.0" HD	180G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	08/16
20FU003K++	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	09/16
20FU003L++	i7-6600U	vPro	HD 520	16GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	09/16
20FU003J++	i7-6600U	vPro	HD 520	16GBx1	14.0" HD	180G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	09/16
20FU003M++	i7-6600U	vPro	HD 520	16GBx1	14.0" HD	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	09/16
20FU003N++	i3-6100U	No	HD 520	4GBx1	14.0" HD	128G SSD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Finger	6(48wh)	45W	Win10 P64	1-depot	No	10/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L460 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models		3-cell	6-cell	
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600		Integrated model		4.25 lb / 1.93 kg	4.45 lb / 2.02 kg	
	i3-6100U		2.3 GHz	-	3MB			discrete model		4.3 lb / 1.95 kg	4.5 lb / 2.04 kg	
	i5-6200U		2.3 GHz	2.8 GHz	3MB		PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic					
	i5-6300U		2.4 GHz	3.0 GHz	3MB							
	i7-6500U		2.5 GHz	3.1 GHz	4MB							
i7-6600U	2.6 GHz		3.4 GHz	4MB								
Graphics	Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory						Case material	Smart card reader <i>Optional:</i> Smart card reader				
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS						Camera ( <i>optional</i> )	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack				
Multi-touch	None						Audio support					
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory						Keyboard	6-row, spill-resistant, multimedia Fn keys				
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
Ethernet	Intel Ethernet Connection I219-V ( <i>Non-vPro model</i> ) or I219-LM ( <i>vPro model</i> )						Security	Power-on password, hard disk password, supervisor password, security keyhole				
WLAN <sup>4</sup>	<i>BCM ac+BT:</i> 11ac+BT, Broadcom BCM4356, 2x2, M.2 card <i>8260 ac+BT:</i> Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro ( <i>optional</i> )	Intel vPro Technology				
WWAN ( <i>optional</i> )	<i>Upg:</i> Wireless WAN upgradable <i>EM7455:</i> Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card <i>ME906S:</i> Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Fingerprint reader	<i>Optional:</i> Swipe style fingerprint reader on the keyboard bezel				
SIM card ( <i>opt</i> )	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
							Max battery life <sup>10</sup> ( <i>MobileMark® 2014</i> )	Models		3-cell	6-cell 48Wh	6-cell 72Wh
								Max battery life		6.93 hr	12.7 hr	20.53 hr
							AC adapter	45W or 65W AC adapter				
							Preload	<i>Win10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64  <i>Win10 P64:</i> Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				

See footnotes for more detailed information

(G-LR2-6) © Lenovo

# ThinkPad L460 20FV

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FV001G++	i5-6300U	vPro	HD 520	4GBx1	14.0" HD	500G 7200	8260 ac+BT	Upg	None	None	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	01/16
20FV001J++	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	EM7455	None	Smart	720p	Finger	6(48wh)	45W	Win10 DG Win7	1-depot	No	03/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L460 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models3-cell6-cell		
	Cel 3855U	2	1.6 GHz	-	2MB		DDR3L-1600	Integrated model4.25 lb / 1.93 kg4.45 lb / 2.02 kg		
	i3-6100U		2.3 GHz	-	3MB			discrete model4.3 lb / 1.95 kg4.5 lb / 2.04 kg		
	i5-6200U		2.3 GHz	2.8 GHz	3MB			PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Smart card readerOptional: Smart card reader		
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)		
i7-6600U	2.6 GHz		3.4 GHz	4MB	PortsThree USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)					
Graphics	Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory					Camera (optional)HD720p resolution, low light sensitive, fixed focus				
Chipset	Intel SoC (System on Chip) platform					Audio supportHD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack				
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets					Keyboard6-row, spill-resistant, multimedia Fn keys				
Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio					UltraNav™TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
Multi-touch	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS					SecurityPower-on password, hard disk password, supervisor password, security keyhole				
Storage	None					Security chipTrusted Platform Module, TCG 1.2-compliant				
	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high					vPro (optional)Intel vPro Technology				
	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS					Fingerprint readerOptional: Swipe style fingerprint reader on the keyboard bezel				
	Some: SSHD with 8GB NAND flash memory					BatteryLi-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
Optical	None					Max battery life <sup>10</sup> (MobileMark® 2014)				
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Models3-cell6-cell 48Wh6-cell 72Wh				
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card					Max battery life6.93 hr12.7 hr20.53 hr				
	8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					AC adapter45W or 65W AC adapter				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					PreloadWin10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
WWAN (optional)	Upg: Wireless WAN upgradable					Win10 P64: Windows 10 Pro 64				
	EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card					Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				
	ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)									
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card									

See footnotes for more detailed information

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# ThinkPad L460 20FV (Discrete)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FV001H++	i7-6500U	No	Radeon R5	8GBx1	14.0" FHD IPS	240G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Finger	6(72wh)	65W	Win10 DG Win7	1-depot	No	03/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L460 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell	6-cell	
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600		Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg	
	i3-6100U		2.3 GHz	-	3MB			discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg	
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic			
	i5-6300U		2.4 GHz	3.0 GHz	3MB						
	i7-6500U		2.5 GHz	3.1 GHz	4MB						
	i7-6600U		2.6 GHz	3.4 GHz	4MB						
Graphics	Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory						Smart card reader	Optional: Smart card reader			
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Display	Some: 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
Storage	None						Keyboard	6-row, spill-resistant, multimedia Fn keys			
Optical	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						Security	Power-on password, hard disk password, supervisor password, security keyhole			
	Some: SSHD with 8GB NAND flash memory						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	None						vPro (optional)	Intel vPro Technology			
WLAN <sup>4</sup>	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
WWAN (optional)	Upg: Wireless WAN upgradable						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3-cell	6-cell 48Wh	6-cell 72Wh
SIM card (opt)	EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card						Max battery life	6.93 hr			
	ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						AC adapter	45W or 65W AC adapter			
	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64			
							Win10 P64:	Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-LR2-4) © Lenovo

# ThinkPad L460 20FV (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preadload	Base warranty (year)	Global	Ann date (m/y)
20FV0024++	i3-6100U	No	HD 520	8GBx1	14.0" FHD IPS	128G SSD	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 P64	3-onsite	No	04/16
20FV0025++	i3-6100U	No	HD 520	8GBx1	14.0" HD	128G SSD	8260 ac+BT	Upg	None	None	720p	None	6(48wh)	45W	Win10 P64	3-onsite	No	04/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L460 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell	6-cell
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600		Integrated model	4.25 lb / 1.93 kg	4.45 lb / 2.02 kg
	i3-6100U		2.3 GHz	-	3MB			discrete model	4.3 lb / 1.95 kg	4.5 lb / 2.04 kg
	i5-6200U		2.3 GHz	2.8 GHz	3MB		PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic			
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Smart card reader <i>Optional:</i> Smart card reader			
	i7-6500U		2.5 GHz	3.1 GHz	4MB		Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)			
i7-6600U	2.6 GHz		3.4 GHz	4MB	Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)					
Graphics	Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory						Camera ( <i>optional</i> ) HD720p resolution, low light sensitive, fixed focus			
Chipset	Intel SoC (System on Chip) platform						Audio support			
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack			
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio						Keyboard			
Multi-touch	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS						UltraNav™			
	None						TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high						Security			
Optical	<i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						Security chip			
	<i>Some:</i> SSHD with 8GB NAND flash memory						vPro ( <i>optional</i> )			
	None						Intel vPro Technology			
Ethernet	Intel Ethernet® Connection I219-V ( <i>Non-vPro model</i> ) or I219-LM ( <i>vPro model</i> )						Fingerprint reader			
WLAN <sup>4</sup>	<i>BCM ac+BT:</i> 11ac+BT, Broadcom BCM4356, 2x2, M.2 card						Battery			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Max battery life <sup>10</sup>			
							( <i>MobileMark® 2014</i> )			
WWAN ( <i>optional</i> )	<i>Upg:</i> Wireless WAN upgradable						AC adapter			
SIM card ( <i>opt</i> )	<i>EM7455:</i> Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card						Preload			
	<i>ME906S:</i> Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						<i>Win10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64			
	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						<i>Win10 P64:</i> Windows 10 Pro 64			
							Limited warranty <sup>12</sup>			
							1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

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ThinkPad L560



Lenovo® ThinkPad L560



Lenovo ThinkPad L560



Lenovo ThinkPad L560



Lenovo ThinkPad L560



Lenovo ThinkPad L560

## ThinkPad L560 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor								ExpressCard (opt)One slot (ExpressCard/34)
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Smart card readerOptional: Smart card reader
	Cel 3855U	2	4	1.6 GHz	-	2MB	DDR3L-1600	Intel HD graphics 510	Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)
	i3-6100U			2.3 GHz	-	3MB		Intel HD graphics 520	
	i5-6200U			2.3 GHz	2.8 GHz	3MB			
	i5-6300U			2.4 GHz	3.0 GHz	3MB			
	i7-6600U			2.6 GHz	3.4 GHz	4MB			
Graphics	Intel HD Graphics 510 or 520 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)								PortsCel 3855U model: three USB 3.0, one USB 2.0 Always On; Other model: four USB 3.0 (one Always On), All: VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
Chipset Memory	Intel SoC (System on Chip) platform 16GB max*/ PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets								Camera (optional)HD720p resolution, low light sensitive, fixed focus Audio supportHD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack
Display	Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 350:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle								Keyboard6-row, spill-resistant, multimedia Fn keys, numeric keypad UltraNav™TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
Multi-touch	None								SecurityPower-on password, hard disk password, supervisor password, security keyhole Security chipTrusted Platform Module, TCG 1.2-compliant ThinkEngineDelivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory								vPro (optional)Intel vPro Technology Fingerprint readerOptional: Swipe style fingerprint reader on the palm rest
Optical (optional)	DVD burner, 9mm high, fixed, not removable, tray-in								BatteryLi-Ion 6-cell (48Wh) Max battery life <sup>10</sup> MobileMark® 2014: 11.2 hr AC adapter45W AC adapter
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								PreloadWindows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)
WLAN <sup>4</sup>	One of the following, configurable by model: • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card								Limited warranty <sup>12</sup> One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								
WWAN (optional)	One of the following, configurable by model: • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)								Mil-Spec testMIL-STD-810G military certification
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								EnvironmentEPEAT™ Gold (US); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant
Dimensions <sup>3</sup>	WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm								
Weight <sup>2</sup>	from 5.25 lb / 2.38 kg								
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic								

# ThinkPad L560 20F1 (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Ex-press-Card	Camera	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F1001Y++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16
20F10024++	i5-6200U	No	HD 520	4GBx1	15.6" FHD IPS	500G 5400 SSHD	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16
20F10026++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	1T 5400	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16
20F10027++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	192G SSD	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16
20F10022++	i3-6100U	No	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16
20F10023++	i5-6200U	No	HD 520	4GBx1	15.6" HD	192G SSD	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16
20F10025++	i5-6200U	No	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16
20F10030++	i5-6200U	No	HD 520	4GBx1	15.6" HD	256G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	06/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L560 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight <sup>2</sup>	from 5.25 lb / 2.38 kg		
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
	i3-6100U		2.3 GHz	-	3MB		ExpressCard (opt)	One slot (ExpressCard/34)		
	i5-6200U		2.3 GHz	2.8 GHz	3MB		Smart card reader	Optional: Smart card reader		
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i7-6600U		2.6 GHz	3.4 GHz	4MB		Ports	Cel 3855U model: three USB 3.0, one USB 2.0 Always On; Other model: four USB 3.0 (one Always On), All: VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
Graphics							Camera (optional)	HD720p resolution, low light sensitive, fixed focus		
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack		
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad		
Display	Some: 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad		
Multi-touch	None						Security	Power-on password, hard disk password, supervisor password, security keyhole		
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Security chip	Trusted Platform Module, TCG 1.2-compliant		
Optical (optional)	DVD burner, 9mm high, fixed, not removable, tray-in						vPro (optional)	Intel vPro Technology		
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest		
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Battery	Li-Ion 6-cell (48Wh)		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Max battery life <sup>10</sup>	MobileMark® 2014: 11.2 hr		
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						AC adapter	45W AC adapter		
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Preload	Win10 DG	Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
								Win10 P64:		Windows 10 Pro 64
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID		

See footnotes for more detailed information

(G-LN1-1) © Lenovo

# ThinkPad L560 20F1 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Ex-press-Card	Camera	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F10029++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	04/16
20F10028++	i5-6200U	No	HD 520	8GBx1	15.6" HD	192G SSD	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	04/16
20F1002U++	i5-6200U	No	HD 520	4GBx1	15.6" FHD IPS	500G 5400 SSHD	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	05/16
20F1002W++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	1T 5400	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	05/16
20F1002X++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	192G SSD	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	05/16
20F1002S++	i3-6100U	No	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	05/16
20F1002T++	i5-6200U	No	HD 520	4GBx1	15.6" HD	192G SSD	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	05/16
20F1002V++	i5-6200U	No	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	05/16
20F10032++	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	06/16
20F10033++	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	192G SSD	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	06/16
20F10034++	i7-6600U	vPro	HD 520	8GBx2	15.6" FHD IPS	192G SSD	DVD±RW	8260 ac+BT	ME906S	Lenovo	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	06/16
20F1002Y++	i5-6200U	No	HD 520	8GBx1	15.6" HD	256G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	06/16
20F10036++	i7-6600U	vPro	HD 520	8GBx2	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	ME906S	Lenovo	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	07/16
20F10039++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	180G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	07/16
20F1003A++	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	180G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	07/16
20F1003B++	i7-6600U	vPro	HD 520	8GBx2	15.6" FHD IPS	180G SSD Opal2	DVD±RW	8260 ac+BT	ME906S	Lenovo	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	07/16
20F10035++	i5-6200U	No	HD 520	4GBx1	15.6" HD	256G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	07/16
20F10037++	i5-6200U	No	HD 520	4GBx1	15.6" HD	180G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	07/16
20F10038++	i5-6200U	No	HD 520	8GBx1	15.6" HD	180G SSD Opal2	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	07/16
20F1003C++	i7-6600U	vPro	HD 520	8GBx2	15.6" FHD IPS	180G SSD Opal2	DVD±RW	8260 ac+BT	ME906S	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	09/16
20F1003D++	i7-6600U	vPro	HD 520	8GBx2	15.6" FHD IPS	256G SSD Opal2	DVD±RW	8260 ac+BT	ME906S	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	1-depot	No	09/16

• For detailed platform specifications, please see [ThinkPad L560 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight <sup>2</sup>	from 5.25 lb / 2.38 kg		
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
	i3-6100U		2.3 GHz	-	3MB		ExpressCard (opt)	One slot (ExpressCard/34)		
	i5-6200U		2.3 GHz	2.8 GHz	3MB		Smart card reader	Optional: Smart card reader		
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i7-6600U		2.6 GHz	3.4 GHz	4MB		Ports	Cel 3855U model: three USB 3.0, one USB 2.0 Always On; Other model: four USB 3.0 (one Always On), All: VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
Graphics	Intel HD Graphics 510 or 520 in processor						Camera (optional)	HD720p resolution, low light sensitive, fixed focus		
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack		
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad		
Display	Some: 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad		
Multi-touch	None						Security	Power-on password, hard disk password, supervisor password, security keyhole		
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Security chip	Trusted Platform Module, TCG 1.2-compliant		
Optical (optional)	DVD burner, 9mm high, fixed, not removable, tray-in						vPro (optional)	Intel vPro Technology		
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest		
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery	Li-Ion 6-cell (48Wh)		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Max battery life <sup>10</sup>	MobileMark® 2014: 11.2 hr		
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						AC adapter	45W AC adapter		
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Preload	Win10 DG	Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
								Win10 P64:		Windows 10 Pro 64
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID		

See footnotes for more detailed information

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# ThinkPad L560 20F1

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Ex-press-Card	Camera	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F10021++	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	500G 7200	DVD±RW	8260 ac+BT	ME906S	None	Smart	Exp/34	720p	Finger	6	45W	Win10 DG Win7	1-depot	No	02/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L560 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup> Case material ExpressCard ( <i>opt</i> ) Smart card reader Media reader Ports	WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm from 5.25 lb / 2.38 kg PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic One slot (ExpressCard/34) <i>Optional:</i> Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) <i>Cel 3855U model:</i> three USB 3.0, one USB 2.0 Always On; <i>Other model:</i> four USB 3.0 (one Always On), <i>All:</i> VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600		
	i3-6100U		2.3 GHz	-	3MB			
	i5-6200U		2.3 GHz	2.8 GHz	3MB			
	i5-6300U		2.4 GHz	3.0 GHz	3MB			
	i7-6600U		2.6 GHz	3.4 GHz	4MB			
Graphics	Intel HD Graphics 510 or 520 in processor						Camera ( <i>optional</i> )	HD720p resolution, low light sensitive, fixed focus
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
Display	<i>Some:</i> 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
Multi-touch	None						Security	Power-on password, hard disk password, supervisor password, security keyhole
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory						Security chip	Trusted Platform Module, TCG 1.2-compliant
Optical ( <i>optional</i> )	DVD burner, 9mm high, fixed, not removable, tray-in						vPro ( <i>optional</i> )	Intel vPro Technology
Ethernet	Intel Ethernet Connection I219-V ( <i>Non-vPro model</i> ) or I219-LM ( <i>vPro model</i> )						Fingerprint reader	<i>Optional:</i> Swipe style fingerprint reader on the palm rest
WLAN <sup>4</sup>	<i>BCM ac+BT:</i> 11ac+BT, Broadcom BCM4356, 2x2, M.2 card <i>8260 ac+BT:</i> Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Battery	Li-Ion 6-cell (48Wh)
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Max battery life <sup>10</sup>	<i>MobileMark® 2014:</i> 11.2 hr
WWAN ( <i>optional</i> )	<i>Upg:</i> Wireless WAN upgradable <i>EM7455:</i> Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card <i>ME906S:</i> Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						AC adapter	45W AC adapter
SIM card ( <i>opt</i> )	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Preload	<i>Win10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(G-LN1-5) © Lenovo

# ThinkPad L560 20F1 (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Express-Card	Camera	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F1001X++	i5-6300U	vPro	HD 520	4GBx1	15.6" HD	500G 7200	DVD±RW	8260 ac+BT	Upg	None	None	Exp/34	720p	Finger	6	45W	Win10 P64	3-depot	No	02/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L560 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm		
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight <sup>2</sup>	from 5.25 lb / 2.38 kg		
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
	i3-6100U		2.3 GHz	-	3MB		ExpressCard (opt)	One slot (ExpressCard/34)		
	i5-6200U		2.3 GHz	2.8 GHz	3MB		Smart card reader	Optional: Smart card reader		
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i7-6600U		2.6 GHz	3.4 GHz	4MB		Ports	Cel 3855U model: three USB 3.0, one USB 2.0 Always On; Other model: four USB 3.0 (one Always On), All: VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector		
Graphics							Camera (optional)	HD720p resolution, low light sensitive, fixed focus		
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack		
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad		
Display	Some: 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad		
Multi-touch	None						Security	Power-on password, hard disk password, supervisor password, security keyhole		
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Security chip	Trusted Platform Module, TCG 1.2-compliant		
Optical (optional)	DVD burner, 9mm high, fixed, not removable, tray-in						vPro (optional)	Intel vPro Technology		
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest		
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Battery	Li-Ion 6-cell (48Wh)		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Max battery life <sup>10</sup>	MobileMark® 2014: 11.2 hr		
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						AC adapter	45W AC adapter		
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64		
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID		

See footnotes for more detailed information

(G-LN1-6) © Lenovo

# ThinkPad L560 20F1 (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Ex-press-Card	Camera	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F10020++	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	500G 5400 SSHD	DVD±RW	8260 ac+BT	Upg	None	Smart	Exp/34	720p	Finger	6	45W	Win10 P64	3-onsite	No	02/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L560 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup> Case material ExpressCard ( <i>opt</i> )One slot (ExpressCard/34) Smart card reader <i>Optional:</i> Smart card reader Media reader Ports <i>Cel 3855U model:</i> three USB 3.0, one USB 2.0 Always On; <i>Other model:</i> four USB 3.0 (one Always On), <i>All:</i> VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600	
	i3-6100U		2.3 GHz	-	3MB		
	i5-6200U		2.3 GHz	2.8 GHz	3MB		
	i5-6300U		2.4 GHz	3.0 GHz	3MB		
	i7-6600U		2.6 GHz	3.4 GHz	4MB		
GraphicsIntel HD Graphics 510 or 520 in processor							
Chipset	Intel SoC (System on Chip) platform						Camera ( <i>optional</i> )HD720p resolution, low light sensitive, fixed focus
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Audio supportHD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack
Display	<i>Some:</i> 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS						Keyboard6-row, spill-resistant, multimedia Fn keys, numeric keypad
Multi-touch	None						UltraNav™TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory						SecurityPower-on password, hard disk password, supervisor password, security keyhole
Optical ( <i>optional</i> )	DVD burner, 9mm high, fixed, not removable, tray-in						Security chipTrusted Platform Module, TCG 1.2-compliant
Ethernet	Intel Ethernet Connection I219-V ( <i>Non-vPro model</i> ) or I219-LM ( <i>vPro model</i> )						vPro ( <i>optional</i> )Intel vPro Technology
WLAN <sup>4</sup>	<i>BCM ac+BT:</i> 11ac+BT, Broadcom BCM4356, 2x2, M.2 card <i>8260 ac+BT:</i> Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Fingerprint reader <i>Optional:</i> Swipe style fingerprint reader on the palm rest
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						BatteryLi-Ion 6-cell ( <i>48Wh</i> )
WWAN ( <i>optional</i> )	<i>Upg:</i> Wireless WAN upgradable <i>EM7455:</i> Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card <i>ME906S:</i> Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Max battery life <sup>10</sup> <i>MobileMark® 2014:</i> 11.2 hr
SIM card ( <i>opt</i> )	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						AC adapter45W AC adapter
							Preload <i>Win10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64
							Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(G-LN1-3) © Lenovo

# ThinkPad L560 20F2 (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Ex-press-Card	Camera	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F2002A++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	128G SSD	DVD±RW	8260 ac+BT	Upg	None	None	Exp/34	720p	None	6	45W	Win10 P64	3-onsite	No	04/16
20F2002B++	i3-6100U	No	HD 520	8GBx1	15.6" FHD IPS	128G SSD	DVD±RW	8260 ac+BT	Upg	None	None	Exp/34	720p	None	6	45W	Win10 P64	3-onsite	No	04/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad L560 Platform Specifications](#) sheet

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup> Case material ExpressCard ( <i>opt</i> ) Smart card reader Media reader Ports	WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm from 5.25 lb / 2.38 kg PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic One slot (ExpressCard/34) <i>Optional:</i> Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) <i>Cel 3855U model:</i> three USB 3.0, one USB 2.0 Always On; <i>Other model:</i> four USB 3.0 (one Always On), <i>All:</i> VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		
	Cel 3855U	2	1.6 GHz	-	2MB	DDR3L-1600		
	i3-6100U		2.3 GHz	-	3MB			
	i5-6200U		2.3 GHz	2.8 GHz	3MB			
	i5-6300U		2.4 GHz	3.0 GHz	3MB			
	i7-6600U		2.6 GHz	3.4 GHz	4MB			
Graphics	Intel HD Graphics 510 or 520 in processor						Camera ( <i>optional</i> ) Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack
Chipset	Intel SoC (System on Chip) platform						Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets							
Display	<i>Some:</i> 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS None						Security	Power-on password, hard disk password, supervisor password, security keyhole
Multi-touch	None						Security chip vPro ( <i>optional</i> ) Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology <i>Optional:</i> Swipe style fingerprint reader on the palm rest
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory						Battery	Li-Ion 6-cell (48Wh) Max battery life <sup>10</sup> AC adapter
Optical ( <i>optional</i> )	DVD burner, 9mm high, fixed, not removable, tray-in						Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64  Win10 P64: Windows 10 Pro 64
Ethernet	Intel Ethernet Connection I219-V ( <i>Non-vPro model</i> ) or I219-LM ( <i>vPro model</i> )						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID
WLAN <sup>4</sup>	<i>BCM ac+BT:</i> 11ac+BT, Broadcom BCM4356, 2x2, M.2 card <i>8260 ac+BT:</i> Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
WWAN ( <i>optional</i> )	<i>Upg:</i> Wireless WAN upgradable <i>EM7455:</i> Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card <i>ME906S:</i> Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)							
SIM card ( <i>opt</i> )	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card							

See footnotes for more detailed information

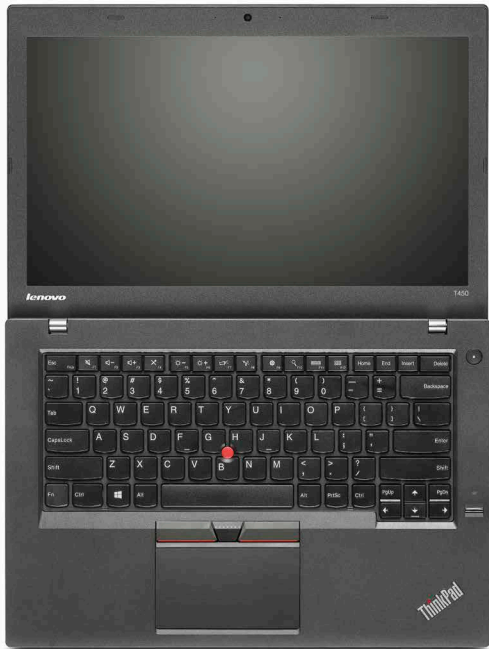
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Lenovo® ThinkPad T450



Lenovo ThinkPad T450



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Lenovo ThinkPad T450

# ThinkPad T450 Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor								Dimensions <sup>3</sup>	14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		Weight <sup>2</sup>	Models	No + 3-cell	3-cell + 3-cell
	i3-4030U	2	4	1.9 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4400	Non-touch		3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i5-4300U			1.9 GHz	2.9 GHz			Multi-touch	3.89 lb / 1.76 kg		4.11 lb / 1.87 kg	4.52 lb / 2.05 kg	
	i3-5010U			2.1 GHz	-			Intel HD Graphics 5500					
	i5-5200U			2.2 GHz	2.7 GHz	Case material			Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
	i5-5300U			2.3 GHz	2.9 GHz								
	i7-5500U			2.4 GHz	3 GHz								
i7-5600U	2.6 GHz			3.2 GHz	4MB								
Graphics	Intel HD Graphics 4400 or 5500 in processor; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)								Smart card reader	Optional: Smart card reader			
Media reader									4-in-1 reader (MMC, SD, SDHC, SDXC)				
Ports									Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Camera									HD720p resolution, low light sensitive, fixed focus				
Audio support									HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Chipset	Intel SoC (System on Chip) platform								Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight			
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Display	<i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								Security	Power-on password, hard disk password, supervisor password, security keyhole			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits								Security chip	Trusted Platform Module, TCG 1.2-compliant			
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures			
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot								vPro (optional)	Intel vPro Technology			
Optical	None								Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)								Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
WLAN <sup>4</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li><li>11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li><li>11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li><li>11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li></ul>								Max battery life <sup>10</sup>	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh
WWAN (optional)	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>Wireless WAN upgradable</li><li>Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card</li><li>Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card</li></ul>								AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"><li>Lenovo Solution Center</li><li>Lenovo SHAREit</li><li>Lenovo REACHit</li><li>Lenovo Companion</li><li>Microsoft Office preloaded; purchase a product key to activate</li><li>Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)</li><li>McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)</li></ul>			
									Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>1-year depot repair service</li><li>3-year/1-yr battery depot repair service</li><li>3-year/1-yr battery limited onsite service<sup>24</sup></li><li>3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)</li></ul>			
									Mil-Spec test	MIL-STD-810G military certification			
									Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant			

# ThinkPad T450 20BV (TopSeller) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BV001K++	i3-5010U	No	HD 5500	4GBx1	14" HD+	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001W++	i3-5010U	No	HD 5500	4GBx1	14" HD+	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001C++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001D++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001E++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	N5321	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001F++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	500G 5400 SSHD	None	7265 ac+BT	N5321	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001G++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	500G 5400 SSHD	None	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001J++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001H++	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001X++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001Y++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	N5321	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001A++	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	N5321	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV001B++	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20BV003A++	i5-5200U	No	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	05/15
20BV003B++	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	06/15
20BV004U++	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	07/15
20BV001V++	i5-5200U	No	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Dimensions <sup>3</sup>	14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm				
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600	Weight <sup>2</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell	
	i5-4300U		1.9 GHz	2.9 GHz				3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg		
	i3-5010U		2.1 GHz	-				Multi-touch	3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg	
	i5-5200U		2.2 GHz	2.7 GHz								
	i5-5300U		2.3 GHz	2.9 GHz								
	i7-5500U		2.4 GHz	3 GHz	4MB			Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic			
	i7-5600U		2.6 GHz	3.2 GHz								
Graphics	Intel HD Graphics 4400 or 5500 in processor						Smart card reader	Optional: Smart card reader				
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)				
Display	Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS						Camera	HD720p resolution, low light sensitive, fixed focus				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Optical	None						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology				
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor				
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
							Max battery life <sup>10</sup>	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
								Battery life	10.08 hr	14.78 hr	19.78 hr	
							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter				
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64			
								Win8.1 64:	Windows 8.1 64-bit			
								Win8.1 P64:	Windows 8.1 Pro 64-bit			
								Win10 P64:	Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				

See footnotes for more detailed information

(G-CB2-2) © Lenovo

# ThinkPad T450 20BV (TopSeller) - Onsite - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BV003M++	i3-5010U	No	HD 5500	4GBx1	14" HD+	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV003N++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV003P++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV003Q++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	192G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV003R++	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV003S++	i5-5200U	No	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV003T++	i5-5200U	No	HD 5500	4GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV003U++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV003V++	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV003W++	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20BV004S++	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	09/15
20BV004T++	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	09/15
20BV004V++	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	09/15
20BV005D++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	09/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Dimensions <sup>3</sup>	14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm					
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600	Weight <sup>2</sup>	Models			No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-4300U		1.9 GHz	2.9 GHz				Non-touch			3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i3-5010U		2.1 GHz	-				Multi-touch			3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg
	i5-5200U		2.2 GHz	2.7 GHz									
	i5-5300U		2.3 GHz	2.9 GHz									
	i7-5500U		2.4 GHz	3 GHz	4MB								
	i7-5600U	2.6 GHz	3.2 GHz										
Graphics	Intel HD Graphics 4400 or 5500 in processor						Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits						Camera	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
							Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh		
								Battery life	10.08 hr	14.78 hr	19.78 hr		
							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter					
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
								Win8.1 64:	Windows 8.1 64-bit				
								Win8.1 P64:	Windows 8.1 Pro 64-bit				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-CB2-5) © Lenovo

# ThinkPad T450 20BU (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Multi-touch	Display	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Battery cells (int-ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)	
20BU000P++	i3-5010U	No	HD 5500	4GBx1	14" HD	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15	
20BU000L++	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	MT	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(48wh)	45W	Win8.1 DG Win7	3-onsite	No	01/15	
20BU000N++	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 7200	None	7265 ac+BT	N5321	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15	
20BU000K++	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	MT	240G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+6(72wh)	45W	Win8.1 DG Win7	3-onsite	No	01/15	
20BU0002++	i5-5300U	vPro	HD 5500	4GBx1	14" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20BU0003++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20BU0005++	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20BU000B++	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20BU000E++	i5-5300U	vPro	HD 5500	4GBx1	14" HD+	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	None	Finger	No+6(48wh)	45W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20BU000F++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20BU0001++	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20BU0007++	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	Yes	01/15
20BU006A++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	No	03/15
20BU006B++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	No	03/15
20BU006C++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	No	128G SSD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	None	3+3	45W	Win8.1 DG Win7	3-onsite	OID	No	03/15
20BU000M++	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	04/15	

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Dimensions <sup>3</sup>			
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600		14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm			
	i5-4300U		1.9 GHz	2.9 GHz				14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm			
	i3-5010U		2.1 GHz	-				Weight <sup>2</sup>			
	i5-5200U		2.2 GHz	2.7 GHz				Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-5300U		2.3 GHz	2.9 GHz				Non-touch	3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i7-5500U		2.4 GHz	3 GHz	Multi-touch			3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg	
i7-5600U	2.6 GHz		3.2 GHz	4MB	Case material						
							Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
Graphics	Intel HD Graphics 4400 or 5500 in processor						Smart card reader	Optional: Smart card reader			
Chipset	Intel SoC (System on Chip) platform 16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Memory							Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)			
Display	Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS						Camera	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight			
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Optical	None						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology			
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor			
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)			
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
							Max battery life <sup>10</sup>	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh
							Battery life	10.08 hr	14.78 hr	19.78 hr	
							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64		
								Win8.1 64:	Windows 10 Pro 64		
								Win8.1 P64:	Windows 8.1 64-bit		
								Win10 P64:	Windows 8.1 Pro 64-bit		
									Windows 10 Pro 64		
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

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# ThinkPad T450 20BU (Onsite) - Windows 8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)	
20BU002C++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	MT	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-onsite	No	01/15	
20BU002B++	i7-5600U	vPro	HD 5500	8GBx1	14" HD+	MT	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-onsite	No	01/15	
20BU0004++	i5-5300U	vPro	HD 5500	8GBx1	14" HD+	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-onsite	OID	Yes	01/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications](#) sheet

Processor	4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor						SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Dimensions <sup>3</sup>	14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm					
	i3-4030U	2	1.9 GHz	-	3MB	DDR3L-1600	Weight <sup>2</sup>	Models			No + 3-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-4300U		1.9 GHz	2.9 GHz				Non-touch			3.58 lb / 1.63 kg	3.81 lb / 1.73 kg	4.21 lb / 1.91 kg
	i3-5010U		2.1 GHz	-				Multi-touch			3.89 lb / 1.76 kg	4.11 lb / 1.87 kg	4.52 lb / 2.05 kg
	i5-5200U		2.2 GHz	2.7 GHz									
	i5-5300U		2.3 GHz	2.9 GHz									
	i7-5500U		2.4 GHz	3 GHz	4MB								
	i7-5600U	2.6 GHz	3.2 GHz										
Graphics	Intel HD Graphics 4400 or 5500 in processor						Case material	Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits						Camera	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	Single-sided M.2 SSD, via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
							Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh		
								Battery life	10.08 hr	14.78 hr	19.78 hr		
							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter					
							Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64					
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-CB2-4) © Lenovo



Lenovo® ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460

ThinkPad T460 Platform Specifications Product Specifications Reference (PSREF)

## ThinkPad T460 Platform Specifications

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor (i7-6500U for discrete models only)								Smart card reader	Optional: Smart card reader
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD graphics 520	Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
	i5-6200U			2.3 GHz	2.8 GHz	3MB			WiGig dock (opt)	WiGig dock, coexists with WWAN (WE only)
	i5-6300U			2.4 GHz	3.0 GHz	3MB			Camera (optional)	HD720p resolution, low light sensitive, fixed focus
	i7-6500U			2.5 GHz	3.1 GHz	4MB			Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
i7-6600U	2.6 GHz			3.4 GHz	4MB	Keyboard			6-row, spill-resistant, multimedia Fn keys, optional LED backlight	
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory (discrete graphics is only available in US); supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 1920x1080@60Hz (HDMI)								UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
									Security	Power-on password, hard disk password, supervisor password, security keyhole
Chipset	Intel SoC (System on Chip) platform								Security chip	Trusted Platform Module, TCG 1.2-compliant
									Security chip	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets								vPro (optional)	Intel vPro Technology
									Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel
Display	Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle								Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)
									External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits								Max battery life <sup>10</sup> (MobileMark® 2014)	
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory (WE only)								AC adapter	45W or 65W Slim AC adapter
Optical	None								Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)									Windows 10 Pro 64
WLAN <sup>4</sup>	One of the following, configurable by model (WiGig can coexist with WWAN): • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card • WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card								Limited warranty <sup>12</sup>	One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter									
WWAN (optional)	One of the following, configurable by model (WWAN can coexist with WiGig): • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)								Mil-Spec test	MIL-STD-810G military certification
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card									
Dimensions <sup>3</sup>	WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm									
Weight <sup>2</sup>										
Case material	Glass-Fiber Reinforced Plastic									

# ThinkPad T460 20FM (TopSeller) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Cam-era	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FM0034++	i3-6100U	No	HD 520	4GBx1	14.0" HD	No	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor (i7-6500U for discrete models only)						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell		
	i3-6100U	2	2.3 GHz	-	3MB	DDR3L-1600		Integrated Non-touch	3.84 lb / 1.74 kg	3.82 lb / 1.73 kg	4.13 lb / 1.87 kg		
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Integrated Multi-touch	3.91 lb / 1.77 kg	3.88 lb / 1.76 kg	4.20 lb / 1.90 kg		
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Discrete Non-touch	3.86 lb / 1.75 kg	3.90 lb / 1.77 kg	4.22 lb / 1.91 kg		
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Discrete Multi-touch	3.93 lb / 1.78 kg	3.97 lb / 1.80 kg	4.28 lb / 1.94 kg		
	i7-6600U		2.6 GHz	3.4 GHz	4MB								
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory (discrete graphics is only available in US)						Case material	Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						WiGig dock (opt)	WiGig dock, coexists with WWAN (WE only)					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory (WE only)						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Optical	None						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security	Power-on password, hard disk password, supervisor password, security keyhole					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Security chip	Trusted Platform Module, TCG 1.2-compliant					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						vPro (optional)	Intel vPro Technology					
							Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
							Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models	6-cell 48Wh	6-cell 72Wh	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Integrated model	10.8 hr	15.3 hr	10.4 hr	15.1 hr	20.2 hr
								discrete model	10.5 hr	15 hr	10.1 hr	14.7 hr	19.7 hr
							AC adapter	45W or 65W Slim AC adapter					
							Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-CB3-5) © Lenovo

# ThinkPad T460 20FN (TopSeller) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FN003G++	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FN003H++	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FN003J++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FN003K++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FN003L++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FN003M++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FN003N++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FN003P++	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FN003Q++	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FN004E++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	06/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor (i7-6500U for discrete models only)					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell	
	i3-6100U	2	2.3 GHz	-	3MB		DDR3L-1600	Integrated Non-touch	3.84 lb / 1.74 kg	3.82 lb / 1.73 kg	4.13 lb / 1.87 kg	
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Integrated Multi-touch	3.91 lb / 1.77 kg	3.88 lb / 1.76 kg	4.20 lb / 1.90 kg	
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Discrete Non-touch	3.86 lb / 1.75 kg	3.90 lb / 1.77 kg	4.22 lb / 1.91 kg	
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Discrete Multi-touch	3.93 lb / 1.78 kg	3.97 lb / 1.80 kg	4.28 lb / 1.94 kg	
	i7-6600U		2.6 GHz	3.4 GHz	4MB							
					Case material	Glass-Fiber Reinforced Plastic						
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory (discrete graphics is only available in US)					Smart card reader	Optional: Smart card reader					
Chipset	Intel SoC (System on Chip) platform					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets					Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector					
Display	Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS					WiGig dock (opt)	WiGig dock, coexists with WWAN (WE only)					
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory (WE only)					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack					
Optical	None					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card					Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security chip	Trusted Platform Module, TCG 1.2-compliant					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					vPro (optional)	Intel vPro Technology					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	6-cell 48Wh	6-cell 72Wh	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
							Integrated model	10.8 hr	15.3 hr	10.4 hr	15.1 hr	20.2 hr
							discrete model	10.5 hr	15 hr	10.1 hr	14.7 hr	19.7 hr
						AC adapter	45W or 65W Slim AC adapter					
						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64:	Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-CB3-1) © Lenovo

# ThinkPad T460 20FN (TopSeller) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FN0047++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FN0048++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FN0049++	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FN004A++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FN004B++	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FN004C++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FN004D++	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FN004M++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20FN004N++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20FN004W++	i5-6200U	No	HD 520	4GBx1	14.0" HD	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	08/16
20FN004X++	i5-6200U	No	HD 520	8GBx1	14.0" HD	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	08/16
20FN004Y++	i5-6200U	No	HD 520	8GBx1	14.0" HD	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	08/16
20FN0050++	i7-6600U	vPro	HD 520	8GBx1	14.0" HD	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	08/16
20FN0051++	i7-6600U	vPro	HD 520	8GBx1	14.0" HD	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	08/16
20FN0052++	i5-6200U	No	HD 520	4GBx1	14.0" HD	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	08/16
20FN0053++	i5-6200U	No	HD 520	4GBx1	14.0" HD	No	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	08/16
20FN0054++	i5-6200U	No	HD 520	8GBx1	14.0" HD	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	09/16
20FN0055++	i7-6600U	vPro	HD 520	8GBx1	14.0" HD	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	09/16

• For detailed platform specifications, please see [ThinkPad T460 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor (i7-6500U for discrete models only)						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell		3-cell + 3-cell		3-cell + 6-cell	
	i3-6100U	2	2.3 GHz	-	3MB	DDR3L-1600		Integrated Non-touch	3.84 lb / 1.74 kg		3.82 lb / 1.73 kg		4.13 lb / 1.87 kg	
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Integrated Multi-touch	3.91 lb / 1.77 kg		3.88 lb / 1.76 kg		4.20 lb / 1.90 kg	
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Discrete Non-touch	3.86 lb / 1.75 kg		3.90 lb / 1.77 kg		4.22 lb / 1.91 kg	
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Discrete Multi-touch	3.93 lb / 1.78 kg		3.97 lb / 1.80 kg		4.28 lb / 1.94 kg	
	i7-6600U		2.6 GHz	3.4 GHz	4MB									
							Case material	Glass-Fiber Reinforced Plastic						
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory (discrete graphics is only available in US)						Smart card reader	Optional: Smart card reader						
Chipset	Intel SoC (System on Chip) platform 32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)						
							Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector						
Memory							WiGig dock (opt)	WiGig dock, coexists with WWAN (WE only)						
Display	Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS In-cell touch, supports 10-finger gesture, 250 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus						
							Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack						
Multi-touch (opt)							Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
							UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad						
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory (WE only)						Security	Power-on password, hard disk password, supervisor password, security keyhole						
							Security chip	Trusted Platform Module, TCG 1.2-compliant						
Optical	None						vPro (optional)	Intel vPro Technology						
							Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel						
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)						
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)						
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card Bluetooth™: Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	6-cell 48Wh	6-cell 72Wh	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh	
							Integrated model	10.8 hr	15.3 hr	10.4 hr	15.1 hr	20.2 hr		
							discrete model	10.5 hr	15 hr	10.1 hr	14.7 hr	19.7 hr		
Bluetooth™							AC adapter	45W or 65W Slim AC adapter						
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64					
								Win10 P64:	Windows 10 Pro 64					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID						

See footnotes for more detailed information

(G-CB3-4) © Lenovo

# ThinkPad T460 20FM (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FM003Q++	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	MT	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20FM003R++	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20FM0032++	i5-6300U	vPro	HD 520	4GBx1	14.0" FHD IPS	No	240G SSD Opal2	18260 ac+BT	Upg	None	Smart	WiGig	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-onsite	No	03/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor (i7-6500U for discrete models only)						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell		
	i3-6100U	2	2.3 GHz	-	3MB	DDR3L-1600		Integrated Non-touch	3.84 lb / 1.74 kg	3.82 lb / 1.73 kg	4.13 lb / 1.87 kg		
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Integrated Multi-touch	3.91 lb / 1.77 kg	3.88 lb / 1.76 kg	4.20 lb / 1.90 kg		
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Discrete Non-touch	3.86 lb / 1.75 kg	3.90 lb / 1.77 kg	4.22 lb / 1.91 kg		
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Discrete Multi-touch	3.93 lb / 1.78 kg	3.97 lb / 1.80 kg	4.28 lb / 1.94 kg		
	i7-6600U		2.6 GHz	3.4 GHz	4MB								
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory (discrete graphics is only available in US)						Case material	Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						WiGig dock (opt)	WiGig dock, coexists with WWAN (WE only)					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory (WE only)						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Optical	None						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security	Power-on password, hard disk password, supervisor password, security keyhole					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Security chip	Trusted Platform Module, TCG 1.2-compliant					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						vPro (optional)	Intel vPro Technology					
							Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
							Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models	6-cell 48Wh	6-cell 72Wh	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Integrated model	10.8 hr	15.3 hr	10.4 hr	15.1 hr	20.2 hr
								discrete model	10.5 hr	15 hr	10.1 hr	14.7 hr	19.7 hr
							AC adapter	45W or 65W Slim AC adapter					
							Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

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# ThinkPad T460 20FM (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FM003P++	i7-6600U vPro	HD 520	8GBx1	14.0" FHD IPS	MT	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	03/16
20FM0033++	i7-6600U vPro	HD 520	16GBx2	14.0" FHD IPS	MT	512G SSD	18260 ac+BT	EM7455	None	Smart	WiGig	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	03/16
20FM003T++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	None	3+3	45W	Win10 P64	3-onsite	No	03/16
20FM003U++	i5-6300U vPro	HD 520	8GBx1	14.0" FHD IPS	No	128G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	03/16
20FM003S++	i5-6200U	No	HD 520	4GBx1	14.0" HD	No	128G SSD	8260 ac+BT	None	None	None	720p	None	None	3+3	45W	Win10 P64	3-onsite	No	03/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor (i7-6500U for discrete models only)						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell		
	i3-6100U	2	2.3 GHz	-	3MB	DDR3L-1600		Integrated Non-touch	3.84 lb / 1.74 kg	3.82 lb / 1.73 kg	4.13 lb / 1.87 kg		
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Integrated Multi-touch	3.91 lb / 1.77 kg	3.88 lb / 1.76 kg	4.20 lb / 1.90 kg		
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Discrete Non-touch	3.86 lb / 1.75 kg	3.90 lb / 1.77 kg	4.22 lb / 1.91 kg		
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Discrete Multi-touch	3.93 lb / 1.78 kg	3.97 lb / 1.80 kg	4.28 lb / 1.94 kg		
	i7-6600U		2.6 GHz	3.4 GHz	4MB								
Graphics						Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory (discrete graphics is only available in US)	Smart card reader	Optional: Smart card reader					
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector					
Display	Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS						WiGig dock (opt)	WiGig dock, coexists with WWAN (WE only)					
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory (WE only)						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack					
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						vPro (optional)	Intel vPro Technology					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
							Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models	6-cell 48Wh	6-cell 72Wh	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Integrated model	10.8 hr	15.3 hr	10.4 hr	15.1 hr	20.2 hr
								discrete model	10.5 hr	15 hr	10.1 hr	14.7 hr	19.7 hr
							AC adapter	45W or 65W Slim AC adapter					
							Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-CB3-3) © Lenovo

ThinkPad T460p

Product Specifications Reference (PSREF)



Lenovo® ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p

# ThinkPad T460p Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader				
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
	i5-6300HQ	4	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133	Intel HD Graphics 530	Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
	i5-6440HQ			2.6 GHz	3.5 GHz				Camera ( <i>optional</i> )	HD720p resolution, low light sensitive, fixed focus			
	i7-6700HQ		2.6 GHz	3.5 GHz	6MB	Audio support			HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
i7-6820HQ	8		2.7 GHz	3.6 GHz	8MB								
Graphics	Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory; supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 4096x2304@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI)								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
Chipset	Mobile Intel QM170 Chipset								Security	Power-on password, hard disk password, supervisor password, security keyhole			
Memory	32GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets								Security chip	Trusted Platform Module, TCG 1.2-compliant			
Display	<i>Some</i> : 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures			
	<i>Some</i> : 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 or 800:1 contrast ratio, 160° viewing angle								vPro ( <i>optional</i> )	Intel vPro Technology			
Multi-touch	None								Fingerprint reader	<i>Optional</i> : Touch style fingerprint reader on the keyboard bezel			
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s (e.g. xxxG SSD) <i>Some</i> : SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™								Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
Optical	None								Max battery life <sup>10</sup>				
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)								( <i>MobileMark® 2014</i> )				
WLAN <sup>4</sup>	<i>One of the following, configurable by model:</i> • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card								AC adapter				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
WWAN ( <i>optional</i> )	<i>One of the following, configurable by model:</i> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)												
SIM card ( <i>opt</i> )	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card												
Dimensions <sup>3</sup>	<i>WxDxH</i> : 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm												
Weight <sup>2</sup>													
	<i>Models</i>			<i>3-cell</i>		<i>6-cell</i>							
	<i>Integrated model</i>			3.99 lb / 1.81 kg		4.70 lb / 2.13 kg							
Case material	<i>discrete model</i>			4.04 lb / 1.83 kg		4.75 lb / 2.15 kg							
	<i>Display cover</i> : PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic;												
	<i>Bottom</i> : Magnesium alloy												
									Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)			
									Mil-Spec test	MIL-STD-810G military certification			
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant			

# ThinkPad T460p 20FW (TopSeller) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FW000D++	i5-6440HQ	vPro	HD 530	4GBx1	14.0" FHD IPS	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-onsite	No	01/16
20FW000E++	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-onsite	No	01/16
20FW000D++	i5-6440HQ	vPro	HD 530	4GBx1	14.0" FHD IPS	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-onsite	No	03/16
20FW000E++	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-onsite	No	03/16
20FW002C++	i5-6300HQ	No	HD 530	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-onsite	No	03/16
20FW0039++	i5-6300HQ	No	HD 530	4GBx1	14.0" FHD IPS	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-onsite	No	03/16
20FW0045++	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-onsite	No	06/16
20FW0046++	i5-6300HQ	No	HD 530	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-onsite	No	06/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460p Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models		3-cell	6-cell	
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model		3.99 lb / 1.81 kg	4.70 lb / 2.13 kg	
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model		4.04 lb / 1.83 kg	4.75 lb / 2.15 kg	
	i7-6700HQ		2.6 GHz	3.5 GHz	6MB							
i7-6820HQ	2.7 GHz		3.6 GHz	8MB								
Graphics	Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PC/ABS plastic; Bottom: Magnesium alloy				
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader				
Memory	32GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector				
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight				
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						vPro (optional)	Intel vPro Technology				
							Fingerprint reader	Optional: Touch style fingerprint reader on the keyboard bezel				
							Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models		3-cell	6-cell 48Wh	6-cell 72Wh
								Integrated model		4.34 hr	8.58 hr	13 hr
								discrete model		4.1 hr	8.5 hr	13 hr
							AC adapter	90W or 135W AC adapter				
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card											

See footnotes for more detailed information

(G-TL1-1) © Lenovo

# ThinkPad T460p 20FW (TopSeller) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FW003W++	i5-6300HQ	No	HD 530	4GBx1	14.0" FHD IPS	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	05/16
20FW003X++	i5-6300HQ	No	HD 530	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	05/16
20FW003Y++	i5-6440HQ	vPro	HD 530	4GBx1	14.0" FHD IPS	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	05/16
20FW0040++	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	05/16
20FW004P++	i5-6300HQ	No	HD 530	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	07/16
20FW004Q++	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	07/16
20FW004R++	i5-6440HQ	vPro	HD 530	8GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	07/16
20FW004S++	i5-6300HQ	No	HD 530	8GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	07/16
20FW004T++	i5-6300HQ	No	HD 530	4GBx1	14.0" WQHD IPS	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	08/16
20FW004U++	i5-6440HQ	vPro	HD 530	4GBx1	14.0" WQHD IPS	500G 7200	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	08/16
20FW004V++	i7-6700HQ	No	940MX	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 P64	3-onsite	No	08/16
20FW004W++	i5-6300HQ	No	HD 530	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	08/16
20FW004X++	i5-6440HQ	vPro	HD 530	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 P64	3-onsite	No	08/16
20FW004Y++	i7-6700HQ	No	940MX	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 P64	3-onsite	No	09/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460p Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm							
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models		3-cell		6-cell			
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model		3.99 lb / 1.81 kg		4.70 lb / 2.13 kg			
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model		4.04 lb / 1.83 kg		4.75 lb / 2.15 kg			
	i7-6700HQ		2.6 GHz	3.5 GHz	6MB										
i7-6820HQ	2.7 GHz		3.6 GHz	8MB											
Graphics	Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PC/ABS plastic; Bottom: Magnesium alloy							
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader							
Memory	32GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)							
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector							
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus							
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack							
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight							
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad							
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security	Power-on password, hard disk password, supervisor password, security keyhole							
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant							
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						vPro (optional)	Intel vPro Technology							
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Fingerprint reader	Optional: Touch style fingerprint reader on the keyboard bezel							
							Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)							
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models		3-cell		6-cell 48Wh		6-cell 72Wh	
								Integrated model		4.34 hr		8.58 hr		13 hr	
								discrete model		4.1 hr		8.5 hr		13 hr	
							AC adapter	90W or 135W AC adapter							
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64							
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID							

See footnotes for more detailed information

(G-TL1-6) © Lenovo

# ThinkPad T460p 20FW (Discrete) - TopSeller (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FW003A++	i5-6440HQ	vPro	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	03/16
20FW003B++	i7-6700HQ	No	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	03/16
20FW003L++	i5-6440HQ	vPro	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	04/16
20FW003M++	i7-6700HQ	No	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	04/16
20FW003C++	i7-6820HQ	vPro	940MX	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	03/16
20FW003N++	i7-6820HQ	vPro	940MX	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	04/16
20FW0050++	i7-6820HQ	vPro	940MX	16GBx1	14.0" WQHD IPS	512G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	10/16
20FW0051++	i7-6820HQ	vPro	940MX	16GBx1	14.0" WQHD IPS	512G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	10/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460p Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	3-cell		6-cell
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model	3.99 lb / 1.81 kg		4.70 lb / 2.13 kg
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			4.04 lb / 1.83 kg		4.75 lb / 2.15 kg	
	i7-6700HQ		2.6 GHz	3.5 GHz	6MB						
i7-6820HQ	2.7 GHz		3.6 GHz	8MB							
Graphics	Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PC/ABS plastic; Bottom: Magnesium alloy			
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader			
Memory	32GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight			
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad			
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant			
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						vPro (optional)	Intel vPro Technology			
							Fingerprint reader	Optional: Touch style fingerprint reader on the keyboard bezel			
							Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)			
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3-cell	6-cell 48Wh	6-cell 72Wh
								Integrated model	4.34 hr	8.58 hr	13 hr
								discrete model	4.1 hr	8.5 hr	13 hr
							AC adapter	90W or 135W AC adapter			
							Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
								Win10 P64:	Windows 10 Pro 64		
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-TL1-2) © Lenovo

# ThinkPad T460p 20FW (Discrete) - TopSeller (Onsite) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FW003P++	i7-6820HQ	vPro	940MX	16GBx1	14.0" WQHD IPS	512G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 P64	3-onsite	No	04/16
20FW0041++	i5-6440HQ	vPro	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 P64	3-onsite	No	05/16
20FW0042++	i7-6700HQ	No	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 P64	3-onsite	No	05/16
20FW003K++	i7-6820HQ	vPro	940MX	16GBx1	14.0" WQHD IPS	512G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 P64	3-onsite	No	05/16
20FW0043++	i7-6820HQ	vPro	940MX	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 P64	3-onsite	No	05/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460p Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models		3-cell	6-cell	
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model		3.99 lb / 1.81 kg	4.70 lb / 2.13 kg	
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model		4.04 lb / 1.83 kg	4.75 lb / 2.15 kg	
	i7-6700HQ		2.6 GHz	3.5 GHz	6MB							
i7-6820HQ	2.7 GHz		3.6 GHz	8MB								
Graphics	Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PC/ABS plastic; Bottom: Magnesium alloy				
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader				
Memory	32GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector				
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight				
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						vPro (optional)	Intel vPro Technology				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Fingerprint reader	Optional: Touch style fingerprint reader on the keyboard bezel				
							Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models		3-cell	6-cell 48Wh	6-cell 72Wh
								Integrated model		4.34 hr	8.58 hr	13 hr
								discrete model		4.1 hr	8.5 hr	13 hr
							AC adapter	90W or 135W AC adapter				
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				

See footnotes for more detailed information

(G-TL1-3) © Lenovo

# ThinkPad T460p 20FX (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FX0026++	i5-6300HQ	No	HD 530	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	6(48wh)	90W	Win10 DG Win7	3-onsite	No	03/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460p Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models		3-cell	6-cell	
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model		3.99 lb / 1.81 kg	4.70 lb / 2.13 kg	
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model		4.04 lb / 1.83 kg	4.75 lb / 2.15 kg	
	i7-6700HQ		2.6 GHz	3.5 GHz	6MB							
i7-6820HQ	2.7 GHz		3.6 GHz	8MB								
Graphics	Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PC/ABS plastic; Bottom: Magnesium alloy				
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader				
Memory	32GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector				
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight				
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security	Power-on password, hard disk password, supervisor password, security keyhole				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant				
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						vPro (optional)	Intel vPro Technology				
							Fingerprint reader	Optional: Touch style fingerprint reader on the keyboard bezel				
							Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models		3-cell	6-cell 48Wh	6-cell 72Wh
								Integrated model		4.34 hr	8.58 hr	13 hr
								discrete model		4.1 hr	8.5 hr	13 hr
							AC adapter	90W or 135W AC adapter				
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card											

See footnotes for more detailed information

(G-TL1-4) © Lenovo

# ThinkPad T460p 20FW (Discrete) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FW002E++	i5-6300HQ	No	940MX	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	03/16
20FW002F++	i7-6700HQ	No	940MX	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	03/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460p Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models		3-cell	6-cell
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model		3.99 lb / 1.81 kg	4.70 lb / 2.13 kg
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model		4.04 lb / 1.83 kg	4.75 lb / 2.15 kg
	i7-6700HQ		2.6 GHz	3.5 GHz	6MB						
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB						
							Case material Display cover: PC/ABS plastic; Bottom: Magnesium alloy				
Graphics	Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory						Smart card reader Media reader Ports				
Chipset	Mobile Intel QM170 Chipset						Optional: Smart card reader				
Memory	32GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						4-in-1 reader (MMC, SD, SDHC, SDXC)				
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS						Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector				
Multi-touch	None						Camera (optional) Audio support				
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Optical	None						Keyboard UltraNav™				
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad				
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security Security chip				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Trusted Platform Module, TCG 1.2-compliant				
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Intel vPro Technology				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Fingerprint reader Optional: Touch style fingerprint reader on the keyboard bezel				
							Battery				
							Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
							Max battery life <sup>10</sup> (MobileMark® 2014)				
							Models		3-cell	6-cell 48Wh	6-cell 72Wh
							Integrated model		4.34 hr	8.58 hr	13 hr
							discrete model		4.1 hr	8.5 hr	13 hr
							AC adapter				
							90W or 135W AC adapter				
							Preload				
							Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64: Windows 10 Pro 64				
							Limited warranty <sup>12</sup>				
							1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				

See footnotes for more detailed information

(G-TL1-7) © Lenovo

# ThinkPad T460p 20FX (Discrete) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FX003Y++	i5-6440HQ	vPro	940MX	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	03/16
20FX0040++	i7-6820HQ	vPro	940MX	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	6(72wh)	135W	Win10 DG Win7	3-onsite	No	03/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460p Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm								
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models		3-cell	6-cell					
	i5-6300HQ	4	2.3 GHz	3.2 GHz	6MB	DDR4-2133		Integrated model		3.99 lb / 1.81 kg	4.70 lb / 2.13 kg					
	i5-6440HQ		2.6 GHz	3.5 GHz	6MB			discrete model		4.04 lb / 1.83 kg	4.75 lb / 2.15 kg					
	i7-6700HQ		2.6 GHz	3.5 GHz	6MB											
i7-6820HQ	2.7 GHz		3.6 GHz	8MB												
Graphics	Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	PC/ABS plastic; Bottom: Magnesium alloy								
Chipset	Mobile Intel QM170 Chipset						Smart card reader	Optional: Smart card reader								
Memory	32GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)								
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector								
Multi-touch	None						Camera (optional)	HD720p resolution, low light sensitive, fixed focus								
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack								
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight								
Ethernet	Intel Ethernet Connection I219-LM (Jacksonville)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad								
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security	Power-on password, hard disk password, supervisor password, security keyhole								
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant								
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						vPro (optional)	Intel vPro Technology								
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Fingerprint reader	Optional: Touch style fingerprint reader on the keyboard bezel								
							Battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)								
							Max battery life <sup>10</sup> (MobileMark® 2014)	<table><tr><td>Models</td><td>3-cell</td><td>6-cell 48Wh</td><td>6-cell 72Wh</td></tr><tr><td>Integrated model</td><td>4.34 hr</td><td>8.58 hr</td><td>13 hr</td></tr><tr><td>discrete model</td><td>4.1 hr</td><td>8.5 hr</td><td>13 hr</td></tr></table>				Models	3-cell	6-cell 48Wh	6-cell 72Wh	Integrated model
Models	3-cell	6-cell 48Wh	6-cell 72Wh													
Integrated model	4.34 hr	8.58 hr	13 hr													
discrete model	4.1 hr	8.5 hr	13 hr													
							AC adapter	90W or 135W AC adapter								
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64								
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID								

See footnotes for more detailed information

(G-TL1-5) © Lenovo



Lenovo® ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s

## ThinkPad T460s Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR4-2133	Intel HD Graphics 520	Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector		
	i5-6300U			2.4 GHz	3 GHz	3MB			WiGig dock (opt)	WiGig dock, mutually exclusive with WWAN		
i7-6600U	2.6 GHz			3.4 GHz	4MB	Camera (optional)			HD720p resolution, low light sensitive, fixed focus			
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US); supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160 @60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160 @24Hz (HDMI)								Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack		
									Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad		
Chipset Memory	Intel SoC (System on Chip) platform 20GB or 24GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket								Security	Power-on password, hard disk password, supervisor password, security keyhole		
Display	<i>Some</i> : 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle <i>Some</i> : 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle								Security chip	Trusted Platform Module, TCG 1.2-compliant		
									ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures		
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits								vPro (optional)	Intel vPro Technology		
Storage	<i>Some</i> : M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) <i>Some</i> : M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)								Fingerprint reader	<i>Optional</i> : Touch style fingerprint reader on the palm rest		
Optical	None								Internal battery	Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated		
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model</i> : Intel Ethernet Connection I219-LM (Jacksonville)								Max battery life <sup>10</sup>	<i>MobileMark® 2014</i> : up to 10.5 hr		
WWAN <sup>4</sup>	<i>One of the following, configurable by model (WiGig is mutually exclusive with WWAN)</i> : • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card • WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card								AC adapter	45W or 65W AC adapter		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Windows 10 Pro 64	
WWAN (optional)	<i>One of the following, configurable by model (mutually exclusive with WiGig)</i> : • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)								• Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								• Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)			
Dimensions <sup>3</sup>	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm								Limited warranty <sup>12</sup> <i>One of the following, configurable by model</i> : • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)			
Weight <sup>2</sup>	<i>Integrated model</i> : from 3.0 lb (1.36kg); <i>Discrete model</i> : from 3.3 lb (1.50kg)								Mil-Spec test			MIL-STD-810G military certification
Case material	<i>Display cover</i> : Carbon-Fiber Reinforced Plastic; <i>Bottom</i> : Magnesium alloy								Environment			EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

# ThinkPad T460s 20F9 (TopSeller) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells (int)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F9003S++	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F9003T++	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F9003U++	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F9003V++	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F9003W++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F9003X++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F9003Y++	i7-6600U	vPro	HD 520	4+8GB	14" FHD IPS	No	512G SSD	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F90041++	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F90042++	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F90043++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F90044++	i7-6600U	vPro	HD 520	4+8GB	14" FHD IPS	No	512G SSD	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F90060++	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	06/16
20F90061++	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	06/16
20F90062++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	06/16
20F90040++	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	256G SSD PCIe NVMe Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F90045++	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	256G SSD PCIe NVMe Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F90070++	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	10/16
20F90071++	i7-6600U	vPro	HD 520	4+16GB	14" FHD IPS	No	512G SSD PCIe NVMe	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	10/16
20F90072++	i7-6600U	vPro	HD 520	4+16GB	14" FHD IPS	No	512G SSD PCIe NVMe	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	10/16
20F90073++	i5-6200U	No	HD 520	4+8GB	14" FHD IPS	No	512G SSD	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	10/16
20F90074++	i5-6200U	No	HD 520	4+8GB	14" FHD IPS	No	512G SSD	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	10/16

• For detailed platform specifications, please see [ThinkPad T460s Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						WWAN (optional) Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR4-2133	
	i5-6300U		2.4 GHz	3 GHz	3MB		
i7-6600U	2.6 GHz		3.4 GHz	4MB			
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US)						SIM card (opt) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card
Chipset	Intel SoC (System on Chip) platform						Smart card reader Optional: Smart card reader
Memory	20GB or 24GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket						Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						WiGig dock (opt) WiGig dock, mutually exclusive with WWAN
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)						Camera (optional) HD720p resolution, low light sensitive, fixed focus
Optical	None						Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security Power-on password, hard disk password, supervisor password, security keyhole
Dimensions <sup>3</sup>	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm						Security chip Trusted Platform Module, TCG 1.2-compliant
Weight <sup>2</sup>	Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg)						vPro (optional) Intel vPro Technology
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy						Fingerprint reader Optional: Touch style fingerprint reader on the palm rest
							Internal battery Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated
							Max battery life <sup>10</sup> MobileMark® 2014: up to 10.5 hr
							AC adapter 45W or 65W AC adapter
							Preload Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
							Win10 P64: Windows 10 Pro 64
							Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(G-TP1-1) © Lenovo

# ThinkPad T460s 20F9 (TopSeller) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells (int)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F9003Q++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	02/16
20F9003R++	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	02/16
20F90050++	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F90051++	i5-6200U	No	HD 520	4+8GB	14" FHD IPS	No	512G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F90052++	i5-6200U	No	HD 520	4+8GB	14" FHD IPS	No	512G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F90053++	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F90054++	i5-6200U	No	HD 520	4+8GB	14" FHD IPS	No	512G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F90055++	i5-6200U	No	HD 520	4+8GB	14" FHD IPS	No	512G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F90056++	i7-6600U	vPro	HD 520	4+16GB	14" FHD IPS	No	512G SSD PCIe NVMe	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F90057++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F90058++	i7-6600U	vPro	HD 520	4+16GB	14" FHD IPS	No	512G SSD PCIe NVMe	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F90059++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F9005C++	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F9005T++	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20F9005U++	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20F9005V++	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20F9005W++	i7-6600U	vPro	HD 520	4+8GB	14" FHD IPS	No	512G SSD	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20F9005X++	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	256G SSD PCIe NVMe Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20F9005Y++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	06/16
20F9006B++	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F9006C++	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F9006D++	i5-6200U	No	HD 520	4+4GB	14" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F9006E++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F9006F++	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F9006G++	i5-6200U	No	HD 520	4+0GB	14" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F9006H++	i5-6200U	No	HD 520	4+4GB	14" WQHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	06/16

• For detailed platform specifications, please see [ThinkPad T460s Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						WWAN (optional) Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR4-2133	
	i5-6300U		2.4 GHz	3 GHz	3MB		
i7-6600U	2.6 GHz		3.4 GHz	4MB			
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US)						SIM card (opt) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card
Chipset	Intel SoC (System on Chip) platform						Smart card reader Optional: Smart card reader
Memory	20GB or 24GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket						Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						WiGig dock (opt) WiGig dock, mutually exclusive with WWAN
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)						Camera (optional) HD720p resolution, low light sensitive, fixed focus
Optical	None						Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security Power-on password, hard disk password, supervisor password, security keyhole
Dimensions <sup>3</sup>	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm						Security chip Trusted Platform Module, TCG 1.2-compliant
Weight <sup>2</sup>	Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg)						vPro (optional) Intel vPro Technology
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy						Fingerprint reader Optional: Touch style fingerprint reader on the palm rest
							Internal battery Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated
							Max battery life <sup>10</sup> MobileMark® 2014: up to 10.5 hr
							AC adapter 45W or 65W AC adapter
							Preload Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64
							Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(G-TP1-2) © Lenovo

# ThinkPad T460s 20F9 (TopSeller) - Onsite (Windows 10) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Cam-era	Backlit key-board	Finger-print reader	Battery cells (int)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F9006J++	i7-6600U	vPro	HD 520	4+4GB	14" WQHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	06/16
20F9006K++	i5-6200U	No	HD 520	4+4GB	14" WQHD IPS	No	256G SSD Opal2	8260 ac+BT	None	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	06/16
20F9006V++	i7-6600U	vPro	HD 520	4+4GB	14" WQHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	08/16
20F9006W++	i5-6200U	No	HD 520	4+4GB	14" WQHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	08/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460s Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						WWAN (optional) Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) SIM card (opt) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR4-2133	
	i5-6300U		2.4 GHz	3 GHz	3MB		
i7-6600U	2.6 GHz		3.4 GHz	4MB			
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US)						Smart card reader Optional: Smart card reader
Chipset	Intel SoC (System on Chip) platform						Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)
Memory	20GB or 24GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket						Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						WiGig dock (opt) WiGig dock, mutually exclusive with WWAN
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						Camera (optional) HD720p resolution, low light sensitive, fixed focus
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)						Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Optical	None						Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						Security Power-on password, hard disk password, supervisor password, security keyhole
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip Trusted Platform Module, TCG 1.2-compliant
Dimensions <sup>3</sup>	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm						Intel vPro (optional) Intel vPro Technology
Weight <sup>2</sup>	Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg)						Fingerprint reader Optional: Touch style fingerprint reader on the palm rest
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy						Internal battery Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated
							Max battery life <sup>10</sup> MobileMark® 2014: up to 10.5 hr
							AC adapter 45W or 65W AC adapter
							Preload Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64
							Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(G-TP1-5) © Lenovo

# ThinkPad T460s 20FA (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells (int)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FA003H++	i5-6300U	vPro	HD 520	8+0GB	14" FHD IPS	No	256G SSD PCIe NVMe Opal2	8260 ac+BT	None	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20FA003G++	i7-6600U	vPro	HD 520	4+8GB	14" WQHD IPS	No	512G SSD PCIe NVMe	8260 ac+BT	ME906S	None	Smart	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-onsite	No	02/16
20FA003J++	i7-6600U	vPro	HD 520	4+16GB	14" WQHD IPS	No	512G SSD	8260 ac+BT	None	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20FA0045++	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	None	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-onsite	No	02/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460s Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						WWAN (optional) Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) SIM card (opt) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR4-2133	
	i5-6300U		2.4 GHz	3 GHz	3MB		
i7-6600U	2.6 GHz		3.4 GHz	4MB			
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US)						Smart card reader Optional: Smart card reader
Chipset	Intel SoC (System on Chip) platform						Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)
Memory	20GB or 24GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket						Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						WiGig dock (opt) WiGig dock, mutually exclusive with WWAN
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						Camera (optional) HD720p resolution, low light sensitive, fixed focus
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)						Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Optical	None						Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security Power-on password, hard disk password, supervisor password, security keyhole
Bluetooth™							Security chip Trusted Platform Module, TCG 1.2-compliant
Dimensions <sup>3</sup>	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm						Intel vPro (optional) Intel vPro Technology
Weight <sup>2</sup>	Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg)						Fingerprint reader Optional: Touch style fingerprint reader on the palm rest
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy						Internal battery Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated
							Max battery life <sup>10</sup> MobileMark® 2014: up to 10.5 hr
							AC adapter 45W or 65W AC adapter
							Preload Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
							Win10 P64: Windows 10 Pro 64
							Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID

See footnotes for more detailed information

(G-TP1-3) © Lenovo

# ThinkPad T460s 20FA (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered +DIMM)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Dock	Camera	Backlit keyboard	Finger-print reader	Battery cells (int)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FA003F++	i7-6600U	vPro	HD 520	4+4GB	14" FHD IPS	MT	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	02/16
20FA0046++	i5-6300U	vPro	HD 520	4+4GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upd	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	03/16
20FA0047++	i7-6600U	vPro	HD 520	4+8GB	14" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	03/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T460s Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						WWAN (optional) Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) SIM card (opt) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR4-2133	
	i5-6300U		2.4 GHz	3 GHz	3MB		
i7-6600U	2.6 GHz		3.4 GHz	4MB			
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US)						Smart card reader Optional: Smart card reader Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector WiGig dock (opt) WiGig dock, mutually exclusive with WWAN
Chipset	Intel SoC (System on Chip) platform						Camera (optional) HD720p resolution, low light sensitive, fixed focus
Memory	20GB or 24GB max <sup>7</sup> / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket						Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Display	Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad
Multi-touch (opt)	In-cell touch, supports 10-finger gesture, 250 nits						
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)						Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant vPro (optional) Intel vPro Technology Fingerprint reader Optional: Touch style fingerprint reader on the palm rest
Optical	None						
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal battery Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated Max battery life <sup>10</sup> MobileMark® 2014: up to 10.5 hr AC adapter 45W or 65W AC adapter
Bluetooth™							Preload Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64
Dimensions <sup>3</sup>	WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm						Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID
Weight <sup>2</sup>	Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg)						
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy						

See footnotes for more detailed information

(G-TP1-4) © Lenovo



Lenovo® ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560

## ThinkPad T560 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor																											
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics																				
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR3L-1600	Intel HD Graphics 520																				
	i5-6300U			2.4 GHz	3 GHz	3MB																						
i7-6600U	2.6 GHz			3.4 GHz	4MB																							
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory; supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI)																											
Chipset Memory	Intel SoC (System on Chip) platform 32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets																											
Display	<i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle <i>Some:</i> 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle																											
Multi-touch (opt)	In-cell touch, supports 10-finger gesture																											
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s (e.g. xxxG SSD) <i>Some:</i> SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory																											
Optical	None																											
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)																											
WLAN <sup>4</sup>	<i>One of the following, configurable by model:</i> • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card																											
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter																											
WWAN (optional)	<i>One of the following, configurable by model:</i> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)																											
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card																											
Dimensions <sup>3</sup> Weight <sup>2</sup>	<i>WxDxH:</i> 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm <table><tr><td><i>Models</i></td><td><i>No + 6-cell</i></td><td><i>3-cell + 3-cell</i></td><td><i>3-cell + 6-cell</i></td></tr><tr><td><i>Integrated Non-touch</i></td><td>5.18 lb / 2.35 kg</td><td>4.88 lb / 2.22 kg</td><td>5.35 lb / 2.43 kg</td></tr><tr><td><i>Integrated Multi-touch</i></td><td>-</td><td>4.92 lb / 2.23 kg</td><td>5.33 lb / 2.42 kg</td></tr><tr><td><i>Discrete Non-touch</i></td><td>5.27 lb / 2.39 kg</td><td>4.97 lb / 2.25 kg</td><td>5.44 lb / 2.47 kg</td></tr><tr><td><i>Discrete Multi-touch</i></td><td>-</td><td>5.00 lb / 2.27 kg</td><td>5.42 lb / 2.46 kg</td></tr></table>								<i>Models</i>	<i>No + 6-cell</i>	<i>3-cell + 3-cell</i>	<i>3-cell + 6-cell</i>	<i>Integrated Non-touch</i>	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg	<i>Integrated Multi-touch</i>	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg	<i>Discrete Non-touch</i>	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg	<i>Discrete Multi-touch</i>	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg
<i>Models</i>	<i>No + 6-cell</i>	<i>3-cell + 3-cell</i>	<i>3-cell + 6-cell</i>																									
<i>Integrated Non-touch</i>	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg																									
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<i>Discrete Multi-touch</i>	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg																									
Case material	<i>Display cover:</i> PPS; <i>Bottom:</i> Glass-Fiber Reinforced Plastic																											
Smart card reader	<i>Optional:</i> Smart card reader																											
Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																											
Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector																											
Camera (optional)	HD720p resolution, low light sensitive, fixed focus																											
Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack																											
Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch																											
Security	Power-on password, hard disk password, supervisor password, security keyhole																											
Security chip	Trusted Platform Module, TCG 1.2-compliant																											
ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures																											
vPro (optional)	Intel vPro Technology																											
Fingerprint reader	<i>Optional:</i> Swipe style fingerprint reader on the palm rest																											
Internal battery	<i>Optional:</i> Integrated Li-Polymer 3-cell (44Wh)																											
External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)																											
Max battery life <sup>10</sup> (MobileMark® 2014)	<table><tr><td><i>Models</i></td><td><i>3 + 3-cell</i></td><td><i>3 + 6-cell 48Wh</i></td><td><i>3 + 6-cell 72Wh</i></td></tr><tr><td><i>Integrated model</i></td><td>13.2 hr</td><td>18.0 hr</td><td>22.7 hr</td></tr><tr><td><i>discrete model</i></td><td>13.5 hr</td><td>18.3 hr</td><td>24.3 hr</td></tr></table>	<i>Models</i>	<i>3 + 3-cell</i>	<i>3 + 6-cell 48Wh</i>	<i>3 + 6-cell 72Wh</i>	<i>Integrated model</i>	13.2 hr	18.0 hr	22.7 hr	<i>discrete model</i>	13.5 hr	18.3 hr	24.3 hr															
<i>Models</i>	<i>3 + 3-cell</i>	<i>3 + 6-cell 48Wh</i>	<i>3 + 6-cell 72Wh</i>																									
<i>Integrated model</i>	13.2 hr	18.0 hr	22.7 hr																									
<i>discrete model</i>	13.5 hr	18.3 hr	24.3 hr																									
AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter																											
Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)																											
Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)																											
Mil-Spec test	MIL-STD-810G military certification																											
Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant																											

# ThinkPad T560 20FH (TopSeller) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FH001A++	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FH001B++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FH001E++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FH001F++	i5-6200U	No	HD 520	4GBx1	15.6" FHD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FH001C++	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20FH001D++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20FH0022++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20FH0023++	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T560 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600		Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
	i5-6300U		2.4 GHz	3 GHz	3MB			Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
						Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg		
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Chipset Memory	Intel SoC (System on Chip) platform 32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Smart card reader	Optional: Smart card reader			
							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
							Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS In-cell touch, supports 10-finger gesture						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)							Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)	Intel vPro Technology			
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth™ Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
Bluetooth™							Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Integrated model	13.2 hr	18.0 hr	22.7 hr
								discrete model	13.5 hr	18.3 hr	24.3 hr
							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

# ThinkPad T560 20FH (TopSeller) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FH0033++	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FH0035++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FH0036++	i7-6600U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FH0037++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FH0038++	i5-6200U	No	HD 520	4GBx1	15.6" FHD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FH0039++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	05/16
20FH003C++	i5-6200U	No	HD 520	8GBx1	15.6" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T560 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600		Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
	i5-6300U		2.4 GHz	3 GHz	3MB			Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
						Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg		
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
							Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	In-cell touch, supports 10-finger gesture						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)	Intel vPro Technology			
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Integrated model	13.2 hr	18.0 hr	22.7 hr
								discrete model	13.5 hr	18.3 hr	24.3 hr
							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
							Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
								Win10 P64:	Windows 10 Pro 64		
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-SZ2-5) © Lenovo

# ThinkPad T560 20FH (Discrete) - TopSeller (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FH002R++	i7-6600U	vPro	940MX	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-onsite	No	03/16
20FH003F++	i5-6200U	No	940MX	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	65W	Win10 DG Win7	3-onsite	No	10/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T560 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600		Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
	i5-6300U		2.4 GHz	3 GHz	3MB			Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
							Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg	
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Chipset Memory	Intel SoC (System on Chip) platform 32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Smart card reader	Optional: Smart card reader			
							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
							Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	In-cell touch, supports 10-finger gesture						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Security	Power-on password, hard disk password, supervisor password, security keyhole			
							Security chip	Trusted Platform Module, TCG 1.2-compliant			
							vPro (optional)	Intel vPro Technology			
							Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
Optical	None						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
							External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card							Integrated model	13.2 hr	18.0 hr	22.7 hr
								discrete model	13.5 hr	18.3 hr	24.3 hr
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
								Win10 P64:	Windows 10 Pro 64		
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-SZ2-4) © Lenovo

# ThinkPad T560 20FH (Discrete) - TopSeller (Onsite) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FH0034++	i7-6600U	vPro	940MX	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	65W	Win10 P64	3-onsite	No	05/16
20FH003D++	i5-6200U	No	940MX	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	65W	Win10 P64	3-onsite	No	08/16
20FH003E++	i7-6600U	vPro	940MX	8GBx1	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	65W	Win10 P64	3-onsite	No	09/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T560 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600		Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
	i5-6300U		2.4 GHz	3 GHz	3MB			Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
							Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg	
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
							Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	In-cell touch, supports 10-finger gesture						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)	Intel vPro Technology			
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Integrated model	13.2 hr	18.0 hr	22.7 hr
								discrete model	13.5 hr	18.3 hr	24.3 hr
							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
							Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
								Win10 P64:	Windows 10 Pro 64		
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-SZ2-6) © Lenovo

# ThinkPad T560 20FJ (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FJ002T++	i7-6600U	vPro	HD 520	16GBx1	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FJ002U++	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	240G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20FJ002S++	i5-6300U	vPro	HD 520	4GBx1	15.6" HD	No	500G 7200	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T560 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600		Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
	i5-6300U		2.4 GHz	3 GHz	3MB			Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
							Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg	
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Chipset Memory	Intel SoC (System on Chip) platform 32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Smart card reader	Optional: Smart card reader			
							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
							Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS In-cell touch, supports 10-finger gesture						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)							Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						vPro (optional)	Intel vPro Technology			
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth™ Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
Bluetooth™							Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Integrated model	13.2 hr	18.0 hr	22.7 hr
								discrete model	13.5 hr	18.3 hr	24.3 hr
							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Win10 P64: Windows 10 Pro 64		
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

# ThinkPad T560 20FJ (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FJ002V++	i7-6600U	vPro	HD 520	16GBx1	15.6" FHD IPS	MT	512G SSD	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+6(48wh)	45W	Win10 P64	3-onsite	No	03/16
20FJ003U++	i5-6300U	vPro	HD 520	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	03/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad T560 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	DDR3L-1600		Integrated Non-touch	5.18 lb / 2.35 kg	4.88 lb / 2.22 kg	5.35 lb / 2.43 kg
	i5-6300U		2.4 GHz	3 GHz	3MB			Integrated Multi-touch	-	4.92 lb / 2.23 kg	5.33 lb / 2.42 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Discrete Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
							Discrete Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg	
Graphics	Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 940MX, 2GB memory						Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Chipset Memory	Intel SoC (System on Chip) platform 32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Smart card reader	Optional: Smart card reader			
							Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
							Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
	In-cell touch, supports 10-finger gesture						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Multi-touch (opt)							Security	Power-on password, hard disk password, supervisor password, security keyhole			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Security chip	Trusted Platform Module, TCG 1.2-compliant			
							vPro (optional)	Intel vPro Technology			
Optical	None						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
							External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter							Integrated model	13.2 hr	18.0 hr	22.7 hr
								discrete model	13.5 hr	18.3 hr	24.3 hr
Bluetooth™							AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
	SIM card (opt) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card							Win10 P64:	Windows 10 Pro 64		
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

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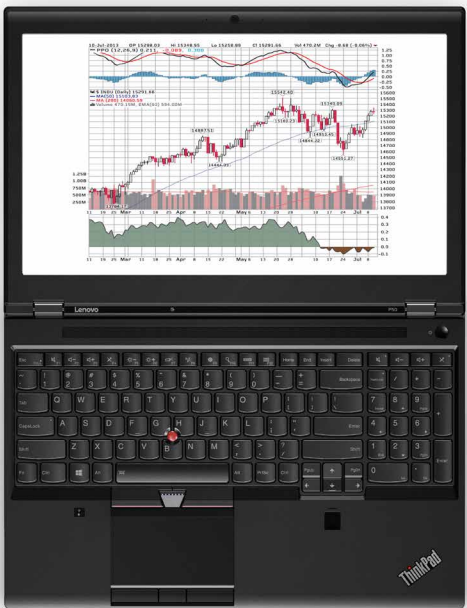
Lenovo® ThinkPad P50



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# ThinkPad P50 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family							Smart card reader ExpressCard Media reader Ports	Optional: Smart card reader One slot (ExpressCard/34) 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector											
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Processor Graphics	Camera (optional) Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack									
	i7-6700HQ	4	8	2.6 GHz	3.5 GHz	6MB	DDR4-2133		Intel HD Graphics 530											
	i7-6820HQ			2.7 GHz	3.6 GHz	8MB			Intel HD Graphics P530											
	E3-1505M v5			2.8 GHz	3.7 GHz	8MB														
E3-1535M v5	2.9 GHz			3.8 GHz	8MB															
Graphics	Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB or 4GB memory) or M2000M (4GB memory); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports four independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 3840x2160@60Hz (Thunderbolt); 3840x2160@30Hz (HDMI)							Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and 3-button crystal silk surface multi-touch touchpad											
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)							Security	Power-on password, hard disk password, supervisor password, security keyhole											
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets							Security chip	Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures											
Display	Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 45% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 178° viewing angle							ThinkEngine	Intel vPro Technology											
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits							vPro (optional)	Touch style fingerprint reader on the palm rest											
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display							Fingerprint reader	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest											
Storage	Up to 3 drives (two M.2 SSD and one HDD) Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™							Color calibration												
Optical	None							Battery	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)											
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)							Max battery life <sup>10</sup> (MobileMark® 2014)	<table><tr><th>Model</th><th>4-cell</th><th>6-cell</th></tr><tr><td>Discrete Graphics</td><td>7.1 hr</td><td>9.7 hr</td></tr><tr><td>Hybrid Graphics</td><td>9.6 hr</td><td>13.2 hr</td></tr></table>			Model	4-cell	6-cell	Discrete Graphics	7.1 hr	9.7 hr	Hybrid Graphics	9.6 hr	13.2 hr
Model	4-cell	6-cell																		
Discrete Graphics	7.1 hr	9.7 hr																		
Hybrid Graphics	9.6 hr	13.2 hr																		
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card							AC adapter	170W AC adapter											
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter							Preload	Some: Genuine Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64											
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card								<ul style="list-style-type: none"><li>• Lenovo Solution Center</li><li>• Lenovo SHAREit</li><li>• ThinkVantage Product Recovery</li><li>• Rescue and Recovery™</li><li>• ThinkVantage System Update</li><li>• Adobe® Reader®</li><li>• Microsoft® Office preloaded; purchase a product key to activate</li><li>• McAfee® LiveSafe™ (30-day trial)</li></ul>											
SIM card	Micro-SIM card slot								<ul style="list-style-type: none"><li>• Microsoft® Office preloaded; purchase a product key to activate</li><li>• McAfee® LiveSafe™ (30-day trial)</li></ul>											
Dimensions <sup>3</sup>	WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm								For ISV certifications, please visit <a href="http://www.lenovo.com/support/ISV">www.lenovo.com/support/ISV</a>											
Weight <sup>2</sup>	<table><tr><th>Models</th><th>4-cell</th><th>6-cell</th></tr><tr><td>Non-touch</td><td>5.6 lb / 2.55kg</td><td>5.9 lb / 2.67kg</td></tr><tr><td>Multi-touch</td><td>6.2 lb / 2.82kg</td><td>6.4 lb / 2.90kg</td></tr></table>							Models	4-cell	6-cell	Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg	Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg	Limited warranty <sup>12</sup>	One of the following, configurable by model: <ul style="list-style-type: none"><li>• 3-year/1-yr battery depot repair service</li><li>• 3-year/1-yr battery limited onsite service<sup>24</sup></li><li>• 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)</li></ul>		
Models	4-cell	6-cell																		
Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg																		
Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg																		
Case material	Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum							Mil-Spec test	MIL-STD-810G military certification											
								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant											

# ThinkPad P50 20EN (Discrete) - TopSeller (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	RAID	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EN0007++	i7-6820HQ	vPro	M2000M, 4GB	8GBx2 non-ECC	15.6" 4K IPS	No	None	512G SSD SATA3.0	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	11/15
20EN0008++	E3-1505M v5	vPro	M2000M, 4GB	8GBx1 ECC	15.6" 4K IPS	No	None	256G SSD PCIe NVMe Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	11/15
20EN0009++	E3-1535M v5	vPro	M2000M, 4GB	8GBx2 ECC	15.6" 4K IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	11/15
20EN0006++	i7-6820HQ	vPro	M2000M, 4GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	11/15
20EN0004++	i7-6700HQ	No	M1000M, 2GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	500G 7200	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-onsite	No	11/15
20EN0005++	i7-6700HQ	No	M1000M, 2GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-onsite	No	11/15
20EN003B++	E3-1505M v5	vPro	M2000M, 4GB	8GBx2 ECC	15.6" FHD IPS	No	None	512G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	05/16
20EN003T++	i7-6820HQ	vPro	M2000M, 4GB	8GBx2 non-ECC	15.6" 4K IPS	No	None	512G SSD SATA3.0 Opal2	No	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	09/16
20EN003U++	E3-1505M v5	vPro	M2000M, 4GB	8GBx1 ECC	15.6" 4K IPS	No	None	256G SSD PCIe NVMe Opal2	No	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	09/16
20EN003V++	E3-1535M v5	vPro	M2000M, 4GB	8GBx2 ECC	15.6" 4K IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	09/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P50 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family					Dimensions <sup>3</sup>  Weight <sup>2</sup>	WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	4-cell	6-cell
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB		DDR4-2133	Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB			Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB					
E3-1535M v5	2.9 GHz		3.8 GHz	8MB						
Graphics	Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB or 4GB memory) or M2000M (4GB memory)					Case material	Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Smart card reader	Optional: Smart card reader			
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets					ExpressCard	One slot (ExpressCard/34)			
						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card			
						Ports	Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle					Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits					Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack			
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Security	Power-on password, hard disk password, supervisor password, security keyhole			
						Security chip	Trusted Platform Module, TCG 1.2-compliant			
						vPro (optional)	Intel vPro Technology			
						Fingerprint reader	Touch style fingerprint reader on the palm rest			
Storage	Up to 3 drives (two M.2 SSD and one HDD) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest			
Optical	None					Battery	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)			
						Max battery life <sup>10</sup>	Model	4-cell	6-cell	
						(MobileMark® 2014)	Discrete Graphics	7.1 hr	9.7 hr	
							Hybrid Graphics	9.6 hr	13.2 hr	
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)					AC adapter	170W AC adapter			
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Preload	Win7 P64:	Genuine Windows® 7 Professional 64		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Win10 DG Win7:	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card						Win10 P64:	Windows 10 Pro 64		
SIM card	Micro-SIM card slot					Limited warranty <sup>12</sup>	3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight									
UltraNav™	3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad									

See footnotes for more detailed information

(G-WT1-1) © Lenovo

# ThinkPad P50 20EN (Discrete) - TopSeller (Onsite) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	RAID	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Color calibration	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EN0034++	E3-1535M v5	vPro	M2000M, 4GB	8GBx2 ECC	15.6" 4K IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-onsite	No	05/16
20EN0035++	E3-1505M v5	vPro	M2000M, 4GB	8GBx1 ECC	15.6" 4K IPS	No	None	256G SSD PCIe NVMe Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-onsite	No	05/16
20EN0036++	i7-6820HQ	vPro	M2000M, 4GB	8GBx2 non-ECC	15.6" 4K IPS	No	None	512G SSD SATA3.0	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-onsite	No	05/16
20EN0037++	i7-6820HQ	vPro	M2000M, 4GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-onsite	No	05/16
20EN003A++	E3-1505M v5	vPro	M2000M, 4GB	8GBx2 ECC	15.6" FHD IPS	No	None	512G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-onsite	No	05/16
20EN0038++	i7-6700HQ	No	M1000M, 2GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	None	6	170W	Win10 P64	3-onsite	No	05/16
20EN0039++	i7-6700HQ	No	M1000M, 2GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	500G 7200	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	None	6	170W	Win10 P64	3-onsite	No	05/16
20EN003P++	i7-6820HQ	vPro	M1000M, 4GB	8GBx2 non-ECC	15.6" FHD IPS	No	None	512G SSD SATA3.0	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-onsite	No	07/16
20EN003M++	i7-6700HQ	No	M1000M, 4GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	500G 7200	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	None	6	170W	Win10 P64	3-onsite	No	07/16
20EN003N++	i7-6700HQ	No	M1000M, 4GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	None	6	170W	Win10 P64	3-onsite	No	07/16
20EN003G++	i7-6820HQ	vPro	M1000M, 4GB	8GBx4 non-ECC	15.6" FHD IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	None	6	170W	Win10 P64	3-onsite	Yes	07/16

• For detailed platform specifications, please see [ThinkPad P50 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family					Dimensions <sup>3</sup>  Weight <sup>2</sup>	WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	4-cell	6-cell
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB		DDR4-2133	Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB			Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB					
E3-1535M v5	2.9 GHz		3.8 GHz	8MB						
Graphics	Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB or 4GB memory) or M2000M (4GB memory)					Case material	Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Smart card reader	Optional: Smart card reader			
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets					ExpressCard	One slot (ExpressCard/34)			
						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card			
						Ports	Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle					Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits					Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack			
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Security	Power-on password, hard disk password, supervisor password, security keyhole			
Storage	Up to 3 drives (two M.2 SSD and one HDD) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Security chip	Trusted Platform Module, TCG 1.2-compliant			
Optical	None					vPro (optional)	Intel vPro Technology			
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)					Fingerprint reader	Touch style fingerprint reader on the palm rest			
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Battery	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)			
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card					Max battery life <sup>10</sup>	Model	4-cell	6-cell	
SIM card	Micro-SIM card slot					(MobileMark® 2014)	Discrete Graphics	7.1 hr	9.7 hr	
							Hybrid Graphics	9.6 hr	13.2 hr	
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight					AC adapter	170W AC adapter			
UltraNav™	3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad					Preload	Win7 P64:	Genuine Windows® 7 Professional 64		
							Win10 DG Win7:	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
							Win10 P64:	Windows 10 Pro 64		
						Limited warranty <sup>12</sup>	3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-WT1-4) © Lenovo

# ThinkPad P50 20EN (Discrete) - TopSeller (Onsite) - Win10 - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	RAID	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Color calibration	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob- al	Ann date (m/y)
20EN003S++	i7-6820HQ	vPro	M2000M, 4GB	8GBx2 non-ECC	15.6" 4K IPS	No	None	512G SSD SATA3.0 Opal2	No	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-onsite	No	09/16
20EN003W++	E3-1505M v5	vPro	M2000M, 4GB	8GBx1 ECC	15.6" 4K IPS	No	None	256G SSD PCIe NVMe Opal2	No	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-onsite	No	09/16
20EN003X++	E3-1535M v5	vPro	M2000M, 4GB	8GBx2 ECC	15.6" 4K IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 P64	3-onsite	No	09/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P50 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family					Dimensions <sup>3</sup>  Weight <sup>2</sup>	WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	4-cell	6-cell
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB		DDR4-2133	Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB			Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB					
E3-1535M v5	2.9 GHz		3.8 GHz	8MB						
Graphics	Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB or 4GB memory) or M2000M (4GB memory)					Case material	Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Smart card reader	Optional: Smart card reader			
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets					ExpressCard	One slot (ExpressCard/34)			
Display	Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card			
	Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle					Ports	Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits					Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Up to 3 drives (two M.2 SSD and one HDD) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Security	Power-on password, hard disk password, supervisor password, security keyhole			
Optical	None					Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)					vPro (optional)	Intel vPro Technology			
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Fingerprint reader	Touch style fingerprint reader on the palm rest			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest			
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card					Battery	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)			
SIM card	Micro-SIM card slot					Max battery life <sup>10</sup>	Model	4-cell	6-cell	
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad					(MobileMark® 2014)	Discrete Graphics	7.1 hr	9.7 hr	
							Hybrid Graphics	9.6 hr	13.2 hr	
UltraNav™						AC adapter	170W AC adapter			
						Preload	Win7 P64: Win10 DG Win7:	Genuine Windows® 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
							Win10 P64:	Windows 10 Pro 64		
						Limited warranty <sup>12</sup>	3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-WT1-5) © Lenovo

# ThinkPad P50 20EQ (Discrete) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage	RAID	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EQ000M++	E3-1535M v5	vPro	M2000M, 4GB	16GBx4 non-ECC	15.6" 4K IPS	No	None	2x512G SSD PCIe NVMe	0	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win7 P64	3-onsite	No	11/15
20EQ000L++	i7-6820HQ	vPro	M2000M, 4GB	8GBx2 non-ECC	15.6" FHD IPS	MT	Pen	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win7 P64	3-onsite	No	11/15
20EQ000J++	i7-6700HQ	No	M1000M, 2GB	8GBx2 non-ECC	15.6" 4K IPS	No	None	256G SSD PCIe NVMe Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	11/15
20EQ000K++	i7-6820HQ	vPro	M2000M, 4GB	8GBx4 non-ECC	15.6" 4K IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	X-Rite	6	170W	Win10 DG Win7	3-onsite	No	11/15
20EQ002G++	i7-6700HQ	No	M1000M, 4GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-onsite	No	10/16
20EQ002H++	i7-6700HQ	No	M1000M, 4GB	8GBx1 non-ECC	15.6" FHD IPS	No	None	500G 7200	No	8260 ac+BT	None	None	Smart	720p	Backlit	Finger	None	6	170W	Win10 DG Win7	3-onsite	No	10/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P50 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family					Dimensions <sup>3</sup>	WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight <sup>2</sup>	Models	4-cell	6-cell
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133		Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB			Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB					
E3-1535M v5	2.9 GHz		3.8 GHz	8MB						
Graphics	Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB or 4GB memory) or M2000M (4GB memory)					Smart card reader	Optional: Smart card reader			
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					ExpressCard	One slot (ExpressCard/34)			
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card			
Display	Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle					Ports	Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector			
	Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle					Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits					Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack			
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Security	Power-on password, hard disk password, supervisor password, security keyhole			
Storage	Up to 3 drives (two M.2 SSD and one HDD)					Security chip	Trusted Platform Module, TCG 1.2-compliant			
	Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s					vPro (optional)	Intel vPro Technology			
Optical	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Fingerprint reader	Touch style fingerprint reader on the palm rest			
	None					Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest			
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)					Battery	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)			
	vPro model: Intel Ethernet Connection I219-LM (Jacksonville)					Max battery life <sup>10</sup> (MobileMark® 2014)	Model	4-cell	6-cell	
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					AC adapter	Discrete Graphics	7.1 hr	9.7 hr	
	Bluetooth™ 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Hybrid Graphics	9.6 hr	13.2 hr	
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card					Preload	Win7 P64:	Genuine Windows® 7 Professional 64		
SIM card	Micro-SIM card slot						Win10 DG Win7:	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
	Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight					Limited warranty <sup>12</sup>	Win10 P64:	Windows 10 Pro 64	
UltraNav™		3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad						3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID		

See footnotes for more detailed information

(G-WT1-2) © Lenovo

# ThinkPad P50 20EQ (Discrete) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro Graphics	Memory	Display	Multi-touch	Pen	Storage	RAID	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20EQ0022++	i7-6820HQ	vPro M2000M, 4GB	16GBx2 non-ECC	15.6" FHD IPS	No	None	512G SSD PCIe NVMe	No	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	6	170W	Win10 P64	3-onsite	No	04/16

Country Code"++" : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P50 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family					Dimensions <sup>3</sup>  Weight <sup>2</sup>	WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	4-cell	6-cell
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB		DDR4-2133	Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB			Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB					
E3-1535M v5	2.9 GHz		3.8 GHz	8MB						
Graphics	Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB or 4GB memory) or M2000M (4GB memory)					Case material	Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Smart card reader	Optional: Smart card reader			
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets					ExpressCard	One slot (ExpressCard/34)			
						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card			
						Ports	Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle					Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 220 nits					Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack			
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Security	Power-on password, hard disk password, supervisor password, security keyhole			
						Security chip	Trusted Platform Module, TCG 1.2-compliant			
						vPro (optional)	Intel vPro Technology			
						Fingerprint reader	Touch style fingerprint reader on the palm rest			
Storage	Up to 3 drives (two M.2 SSD and one HDD) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest			
Optical	None					Battery	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)			
						Max battery life <sup>10</sup>	Model	4-cell	6-cell	
						(MobileMark® 2014)	Discrete Graphics	7.1 hr	9.7 hr	
							Hybrid Graphics	9.6 hr	13.2 hr	
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)					AC adapter	170W AC adapter			
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Preload	Win7 P64:	Genuine Windows® 7 Professional 64		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Win10 DG Win7:	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card						Win10 P64:	Windows 10 Pro 64		
SIM card	Micro-SIM card slot					Limited warranty <sup>12</sup>	3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight									
UltraNav™	3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad									

See footnotes for more detailed information

(G-WT1-3) © Lenovo



Lenovo® ThinkPad P50s



Lenovo ThinkPad P50s



Lenovo ThinkPad P50s



Lenovo ThinkPad P50s



Lenovo ThinkPad P50s

# ThinkPad P50s Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader																			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																		
	i5-6300U	2	4	2.4 GHz	3 GHz	3MB	DDR3L-1600	Intel HD Graphics 520	Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector																		
	i7-6500U			2.5 GHz	3.1 GHz	4MB			Camera ( <i>optional</i> )	HD720p resolution, low light sensitive, fixed focus																		
i7-6600U	2.6 GHz			3.4 GHz	4MB	Audio support			HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack																			
Graphics	Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory); supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI)								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch																		
Chipset	Intel SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole																		
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets								Security chip ThinkEngine	Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures																		
Display	<i>Some</i> : 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio, 160° viewing angle <i>Some</i> : 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle								vPro ( <i>optional</i> )	Intel vPro Technology																		
Multi-touch ( <i>opt</i> )	In-cell touch, supports 10-finger gesture								Fingerprint reader	<i>Optional</i> : Swipe style fingerprint reader on the palm rest																		
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s (e.g. xxxG SSD) <i>Some</i> : SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ <i>Some</i> : SSHD with 8GB NAND flash memory								Internal battery	<i>Optional</i> : Integrated Li-Polymer 3-cell (44Wh)																		
Optical	None								External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)																		
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model</i> : Intel Ethernet Connection I219-LM (Jacksonville)								Max battery life <sup>10</sup> ( <i>MobileMark® 2014</i> )	<table><tr><td>Models</td><td>3 + 3-cell</td><td>3 + 6-cell 48Wh</td><td>3 + 6-cell 72Wh</td></tr><tr><td>Max battery life</td><td>12.0 hr</td><td>16.3 hr</td><td>20.5 hr</td></tr></table>			Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh	Max battery life	12.0 hr	16.3 hr	20.5 hr								
Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh																									
Max battery life	12.0 hr	16.3 hr	20.5 hr																									
WLAN <sup>4</sup>	<i>One of the following, configurable by model</i> : <ul style="list-style-type: none"><li>• 11ac+BT, Broadcom BCM4356, 2x2, M.2 card</li><li>• 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card</li></ul>								AC adapter	65W Slim AC adapter or 65W AC adapter																		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Preload	<table><tr><td>Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64</td><td>Windows 10 Pro 64</td></tr><tr><td>• Lenovo Solution Center</td><td>• Lenovo Solution Center</td></tr><tr><td>• ThinkVantage Product Recovery</td><td>• ThinkVantage Product Recovery</td></tr><tr><td>• Rescue and Recovery™</td><td>• Rescue and Recovery™</td></tr><tr><td>• ThinkVantage System Update</td><td>• ThinkVantage System Update</td></tr><tr><td>• Adobe® Reader®</td><td>• Adobe® Reader®</td></tr><tr><td>• Microsoft® Office preloaded; purchase a product key to activate</td><td>• Microsoft® Office preloaded; purchase a product key to activate</td></tr><tr><td>• McAfee® LiveSafe™ (30-day trial)</td><td>• McAfee® LiveSafe™ (30-day trial)</td></tr></table> <i>For ISV certifications, please visit <a href="http://www.lenovo.com/support/ISV">www.lenovo.com/support/ISV</a></i>			Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Windows 10 Pro 64	• Lenovo Solution Center	• Lenovo Solution Center	• ThinkVantage Product Recovery	• ThinkVantage Product Recovery	• Rescue and Recovery™	• Rescue and Recovery™	• ThinkVantage System Update	• ThinkVantage System Update	• Adobe® Reader®	• Adobe® Reader®	• Microsoft® Office preloaded; purchase a product key to activate	• Microsoft® Office preloaded; purchase a product key to activate	• McAfee® LiveSafe™ (30-day trial)	• McAfee® LiveSafe™ (30-day trial)
Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Windows 10 Pro 64																											
• Lenovo Solution Center	• Lenovo Solution Center																											
• ThinkVantage Product Recovery	• ThinkVantage Product Recovery																											
• Rescue and Recovery™	• Rescue and Recovery™																											
• ThinkVantage System Update	• ThinkVantage System Update																											
• Adobe® Reader®	• Adobe® Reader®																											
• Microsoft® Office preloaded; purchase a product key to activate	• Microsoft® Office preloaded; purchase a product key to activate																											
• McAfee® LiveSafe™ (30-day trial)	• McAfee® LiveSafe™ (30-day trial)																											
WWAN ( <i>optional</i> )	<i>One of the following, configurable by model</i> : <ul style="list-style-type: none"><li>• Wireless WAN upgradable</li><li>• Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card</li><li>• Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)</li></ul>								Limited warranty <sup>12</sup>	<i>One of the following, configurable by model</i> : <ul style="list-style-type: none"><li>• 3-year/1-yr battery depot repair service</li><li>• 3-year/1-yr battery limited onsite service<sup>24</sup></li><li>• 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)</li></ul>																		
SIM card ( <i>opt</i> )	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								Mil-Spec test	MIL-STD-810G military certification																		
Dimensions <sup>3</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant																		
Weight <sup>2</sup>	<table><tr><td>Models</td><td>No + 6-cell</td><td>3-cell + 3-cell</td><td>3-cell + 6-cell</td></tr><tr><td>Non-touch</td><td>5.27 lb / 2.39 kg</td><td>4.97 lb / 2.25 kg</td><td>5.44 lb / 2.47 kg</td></tr><tr><td>Multi-touch</td><td>-</td><td>5.00 lb / 2.27 kg</td><td>5.42 lb / 2.46 kg</td></tr></table>								Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell	Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg	Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg								
Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell																									
Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg																									
Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg																									
Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic																											

# ThinkPad P50s 20FL (Discrete) - TopSeller (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FL000E++	i7-6500U	No	M500M	8GBx2	15.5" 3K IPS	No	512G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+6(72wh)	65W	Win10 DG Win7	3-onsite	No	01/16
20FL000D++	i7-6500U	No	M500M	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+6(72wh)	65W	Win10 DG Win7	3-onsite	No	01/16
20FL001D++	i7-6600U	vPro	M500M	8GBx2	15.5" 3K IPS	No	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+6(72wh)	65W	Win10 DG Win7	3-onsite	No	09/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P50s Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6300U	2	2.4 GHz	3 GHz	3MB	DDR3L-1600		Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Graphics	Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory)						Case material				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
							Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 400:1 / 500:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	In-cell touch, supports 10-finger gesture						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight			
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole			
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology			
WWAN (optional)	Upg: Wireless WAN upgradeable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
							External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Max battery life	12.0 hr	16.3 hr	20.5 hr
							AC adapter	65W Slim AC adapter or 65W AC adapter			
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-SZ2P-1) © Lenovo

# ThinkPad P50s 20FL (Discrete) - TopSeller (Onsite) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FL000F++	i7-6500U	No	M500M	8GBx2	15.6" FHD IPS	MT	512G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+6(72wh)	65W	Win10 P64	3-onsite	No	01/16
20FL000X++	i7-6500U	No	M500M	8GBx2	15.5" 3K IPS	No	512G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+6(72wh)	65W	Win10 P64	3-onsite	No	05/16
20FL000W++	i7-6500U	No	M500M	8GBx1	15.6" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+6(72wh)	65W	Win10 P64	3-onsite	No	05/16
20FL001C++	i7-6600U	vPro	M500M	8GBx2	15.5" 3K IPS	No	256G SSD PCIe NVMe Opal2	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+6(72wh)	65W	Win10 P64	3-onsite	No	09/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P50s Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6300U	2	2.4 GHz	3 GHz	3MB	DDR3L-1600		Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Graphics	Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory)						Case material				
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader			
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Display	Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 400:1 / 500:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Multi-touch (opt)	In-cell touch, supports 10-finger gesture						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Optical	None						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security	Power-on password, hard disk password, supervisor password, security keyhole			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant			
WWAN (optional)	Upg: Wireless WAN upgradeable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						vPro (optional)	Intel vPro Technology			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
							Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
							External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Max battery life	12.0 hr	16.3 hr	20.5 hr
							AC adapter	65W Slim AC adapter or 65W AC adapter			
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-SZ2P-2) © Lenovo

# ThinkPad P50s 20FK (Discrete) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FK0008++	i7-6600U	vPro	M500M	8GBx2	15.5" 3K IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+6(72wh)	65W	Win10 DG Win7	3-onsite	No	03/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P50s Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6300U	2	2.4 GHz	3 GHz	3MB		DDR3L-1600	Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Case material Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Graphics	Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory)					Smart card reader	Optional: Smart card reader				
Chipset	Intel SoC (System on Chip) platform					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets					Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector				
Display	Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 400:1 / 500:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS					Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Multi-touch (opt)	In-cell touch, supports 10-finger gesture					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory					Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight				
Optical	None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Security	Power-on password, hard disk password, supervisor password, security keyhole				
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Security chip	Trusted Platform Module, TCG 1.2-compliant				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					vPro (optional)	Intel vPro Technology				
WWAN (optional)	Upg: Wireless WAN upgradeable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)				
						External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)				
						Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh	
							Max battery life	12.0 hr	16.3 hr	20.5 hr	
						AC adapter	65W Slim AC adapter or 65W AC adapter				
						Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				

See footnotes for more detailed information

(G-SZ2P-3) © Lenovo

# ThinkPad P50s 20FK (Discrete) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FK000J++	i7-6600U	vPro	M500M	16GBx1	15.6" FHD IPS	No	512G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	65W	Win10 P64	3-onsite	No	04/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P50s Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	i5-6300U	2	2.4 GHz	3 GHz	3MB	DDR3L-1600		Non-touch	5.27 lb / 2.39 kg	4.97 lb / 2.25 kg	5.44 lb / 2.47 kg
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Multi-touch	-	5.00 lb / 2.27 kg	5.42 lb / 2.46 kg
	i7-6600U		2.6 GHz	3.4 GHz	4MB			Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic			
Graphics	Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory)						Smart card reader	Optional: Smart card reader			
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)			
Memory	32GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets						Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector			
Display	Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 400:1 / 500:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS						Camera (optional)	HD720p resolution, low light sensitive, fixed focus			
Multi-touch (opt)	In-cell touch, supports 10-finger gesture						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory						Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight			
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch			
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole			
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						vPro (optional)	Intel vPro Technology			
WWAN (optional)	Upg: Wireless WAN upgradeable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest			
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)			
							External battery	Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)			
							Max battery life <sup>10</sup> (MobileMark® 2014)	Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh
								Max battery life	12.0 hr	16.3 hr	20.5 hr
							AC adapter	65W Slim AC adapter or 65W AC adapter			
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

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Lenovo® ThinkPad P70



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## ThinkPad P70 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family								Smart card reader	Optional: Smart card reader							
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	ExpressCard	One slot (ExpressCard/34)							
	i7-6700HQ	4	8	2.6 GHz	3.5 GHz	6MB	DDR4-2133	Intel HD Graphics 530	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card							
	i7-6820HQ			2.7 GHz	3.6 GHz	8MB		Intel HD Graphics P530	Ports	Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector							
	E3-1505M v5			2.8 GHz	3.7 GHz	8MB		Intel Iris™ Pro Graphics P580	Camera (optional)	HD720p resolution, low light sensitive, fixed focus							
	E3-1575M v5			3 GHz	3.9 GHz			Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack								
Graphics	Intel HD Graphics 530, Intel HD Graphics P530, or Intel Iris™ Pro Graphics P580 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports five independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 3840x2160@60Hz (Thunderbolt); 3840x2160@30Hz (HDMI)								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and 3-button crystal silk surface multi-touch touchpad							
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) 64GB max⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets								Security	Power-on password, hard disk password, supervisor password, security keyhole							
Memory									Security chip	Trusted Platform Module, TCG 1.2-compliant							
Display	Some: 17.3" (439mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 72% gamut, 170° viewing angle Some: 17.3" (439mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 90% gamut, 170° viewing angle								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures							
Multi-touch (opt)									vPro (optional)	Intel vPro Technology							
Pen (optional)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits ThinkPad Pen Pro, active pen for multi-touch display								Fingerprint reader	Touch style fingerprint reader on the keyboard bezel							
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™								Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest							
Optical (optional)									Battery	Li-Ion 8-cell (96Wh)							
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								Max battery life¹⁰	<table><tr><th>Mode</th><th>Discrete Graphics</th><th>Hybrid Graphics</th></tr><tr><td>MobileMark® 2014</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>		Mode	Discrete Graphics	Hybrid Graphics	MobileMark® 2014	8.5 hr	10.8 hr
Mode									Discrete Graphics	Hybrid Graphics							
MobileMark® 2014	8.5 hr	10.8 hr															
WLAN⁴	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card								AC adapter	170W or 230W AC adapter							
Bluetooth™									Preload	Some: Genuine Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) For ISV certifications, please visit <a href="http://www.lenovo.com/support/ISV">www.lenovo.com/support/ISV</a>							
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/UMTS/GNSS, M.2 card								Limited warranty¹²	One of the following, configurable by model: • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)							
SIM card	Micro-SIM card slot								Mil-Spec test	MIL-STD-810G military certification							
Dimensions³	WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm Non-touch model: from 7.3 lb (3.3kg); Multi-touch model: from 8.1 lb (3.7kg)								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant							
Weight²																	
Case material	Display cover: Glass-Fiber + PPS Bottom: Magnesium/Aluminum																

# ThinkPad P70 20ER (Discrete) - TopSeller (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20ER000C++	E3-1505M v5	vPro	M4000M	8GBx2 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 DG Win7	3-onsite	No	11/15	
20ER000D++	i7-6820HQ	vPro	M4000M	8GBx2 non-ECC	17.3" 4K IPS	No	None	512G SSD SATA3.0	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 DG Win7	3-onsite	No	10/15	
20ER000E++	i7-6820HQ	vPro	M3000M	8GBx2 non-ECC	17.3" 4K IPS	No	None	512G SSD SATA3.0	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 DG Win7	3-onsite	No	10/15	
20ER000B++	i7-6700HQ	No	M600M	8GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	170W	Win10 DG Win7	3-onsite	No	10/15	
20ER0031++	E3-1575M v5	vPro	M5000M	8GBx2 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 DG Win7	3-onsite	No	04/16	
20ER0037++	i7-6820HQ	vPro	M600M	8GBx2 non-ECC	17.3" FHD IPS	No	None	512G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	170W	Win10 DG Win7	3-onsite	No	05/16	
20ER003P++	i7-6820HQ	vPro	M3000M	8GBx2 non-ECC	17.3" 4K IPS	No	None	512G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 DG Win7	3-onsite	No	09/16	
20ER003Q++	E3-1505M v5	vPro	M4000M	8GBx2 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 DG Win7	3-onsite	No	09/16	
20ER003R++	E3-1575M v5	vPro	M5000M	8GBx2 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 DG Win7	3-onsite	No	09/16	
20ER003L++	i7-6700HQ	No	M600M	8GBx1 non-ECC	17.3" FHD IPS	MT	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	170W	Win10 DG Win7	3-onsite	No	09/16	
20ER003M++	i7-6700HQ	No	M3000M	8GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 DG Win7	3-onsite	No	09/16	
20ER003N++	i7-6820HQ	vPro	M600M	8GBx2 non-ECC	17.3" FHD IPS	No	None	512G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	170W	Win10 DG Win7	3-onsite	No	09/16	

• For detailed platform specifications, please see [ThinkPad P70 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family					Dimensions <sup>3</sup>	WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm								
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight <sup>2</sup>	Non-touch model: from 7.3 lb (3.3kg); Multi-touch model: from 8.1 lb (3.7kg)							
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133	Case material	Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum							
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB		Smart card reader	Optional: Smart card reader							
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB		ExpressCard	One slot (ExpressCard/34)							
E3-1575M v5	3 GHz		3.9 GHz	Media reader			4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card								
Graphics	Intel HD Graphics 530, Intel HD Graphics P530, or Intel Iris™ Pro Graphics P580 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory)					Ports	Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector								
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Camera	HD720p resolution, low light sensitive, fixed focus								
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets					Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack								
Display	<i>Some:</i> 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle <i>Some:</i> 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle					Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight								
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits					UltraNav™	3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad								
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display					Security chip vPro (optional)	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology								
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Fingerprint reader	Touch style fingerprint reader on the keyboard bezel								
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in					Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest								
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)					Battery	Li-Ion 8-cell (96Wh)								
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Max battery life <sup>10</sup>	<table><tr><th>Mode</th><th>Discrete Graphics</th><th>Hybrid Graphics</th></tr><tr><td>MobileMark® 2014</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>			Mode	Discrete Graphics	Hybrid Graphics	MobileMark® 2014	8.5 hr	10.8 hr
Mode	Discrete Graphics	Hybrid Graphics													
MobileMark® 2014	8.5 hr	10.8 hr													
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					AC adapter	170W or 230W AC adapter								
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA/UMTS/GNSS, M.2 card					Preload	<i>Win7 P64:</i> Genuine Windows® 7 Professional 64 <i>Win10 DG Win7:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64								
SIM card (opt)	Micro-SIM card, Verizon® LTE (4G), contract required with service provider					Limited warranty <sup>12</sup>	3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID								

See footnotes for more detailed information

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# ThinkPad P70 20ER (Discrete) - TopSeller (Onsite) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20ER0033++	E3-1505M v5		vPro	M4000M	8GBx2 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 P64	3-onsite	No	05/16
20ER0034++	i7-6820HQ		vPro	M3000M	8GBx2 non-ECC	17.3" 4K IPS	No	None	512G SSD SATA3.0	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 P64	3-onsite	No	05/16
20ER0036++	E3-1575M v5		vPro	M5000M	8GBx2 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 P64	3-onsite	No	05/16
20ER0035++	i7-6700HQ	No		M600M	8GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	170W	Win10 P64	3-onsite	No	05/16
20ER0038++	i7-6820HQ		vPro	M600M	8GBx2 non-ECC	17.3" FHD IPS	No	None	512G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	170W	Win10 P64	3-onsite	No	05/16
20ER003D++	i7-6820HQ		vPro	M3000M	8GBx2 non-ECC	17.3" 4K IPS	No	None	512G SSD SATA3.0	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 P64	3-onsite	No	07/16
20ER003E++	E3-1505M v5		vPro	M4000M	8GBx2 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 P64	3-onsite	No	07/16
20ER003G++	E3-1575M v5		vPro	M5000M	8GBx2 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 P64	3-onsite	No	07/16
20ER003C++	i7-6820HQ		vPro	M600M	8GBx2 non-ECC	17.3" FHD IPS	No	None	512G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	170W	Win10 P64	3-onsite	No	07/16
20ER003F++	i7-6700HQ	No		M600M	8GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger X-Rite	8	170W	Win10 P64	3-onsite	No	07/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P70 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family					Dimensions <sup>3</sup> <i>WxDxH:</i> 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm <i>WxDxH(Touch):</i> 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm <i>Non-touch model:</i> from 7.3 lb (3.3kg); <i>Multi-touch model:</i> from 8.1 lb (3.7kg) <i>Display cover:</i> Glass-Fiber + PPS; <i>Bottom:</i> Magnesium/Aluminum							
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types						
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB		DDR4-2133						
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB								
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB								
E3-1575M v5	3 GHz		3.9 GHz										
Graphics	Intel HD Graphics 530, Intel HD Graphics P530, or Intel Iris™ Pro Graphics P580 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory)												
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack						
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets												
Display	<i>Some:</i> 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle <i>Some:</i> 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle					Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad						
Multi-touch (opt) Pen (optional)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits ThinkPad Pen Pro, active pen for multi-touch display					Security Security chip vPro (optional) Fingerprint reader Color calibration	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology Touch style fingerprint reader on the keyboard bezel <i>Optional:</i> Pantone® color calibrator by X-Rite® color calibration sensor in palm rest						
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Battery Max battery life <sup>10</sup>	Li-Ion 8-cell (96Wh) <table><tr><td><i>Mode</i></td><td><i>Discrete Graphics</i></td><td><i>Hybrid Graphics</i></td></tr><tr><td>MobileMark® 2014</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>	<i>Mode</i>	<i>Discrete Graphics</i>	<i>Hybrid Graphics</i>	MobileMark® 2014	8.5 hr	10.8 hr
<i>Mode</i>	<i>Discrete Graphics</i>	<i>Hybrid Graphics</i>											
MobileMark® 2014	8.5 hr	10.8 hr											
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in					AC adapter	170W or 230W AC adapter						
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)					Preload	<i>Win7 P64:</i> Genuine Windows® 7 Professional 64 <i>Win10 DG Win7:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64						
WLAN <sup>4</sup> Bluetooth™	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA/UMTS/GNSS, M.2 card Micro-SIM card, Verizon® LTE (4G), contract required with service provider					Limited warranty <sup>12</sup>	3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID						
SIM card (opt)													

See footnotes for more detailed information

(G-PY1-4) © Lenovo

# ThinkPad P70 20ES (Discrete) - TopSeller (Onsite) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery adapter	Power (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20ES0023++	i7-6700HQ	No	M3000M	8GBx1 non-ECC	17.3" FHD IPS	No	None	256G SSD SATA3.0 Opal2	No	DVD±RW	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	X-Rite	8	230W	Win10 P64	3-onsite	No	09/16

Country Code"++" : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P70 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family					Dimensions <sup>3</sup> <i>WxDxH:</i> 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm <i>WxDxH(Touch):</i> 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm <i>Non-touch model:</i> from 7.3 lb (3.3kg); <i>Multi-touch model:</i> from 8.1 lb (3.7kg) <i>Display cover:</i> Glass-Fiber + PPS; <i>Bottom:</i> Magnesium/Aluminum	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB		DDR4-2133
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB		
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB		
E3-1575M v5	3 GHz		3.9 GHz				
Graphics	Intel HD Graphics 530, Intel HD Graphics P530, or Intel Iris™ Pro Graphics P580 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory)						
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Camera Audio support	
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets						
Display	<i>Some:</i> 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle <i>Some:</i> 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle					Keyboard UltraNav™	
Multi-touch (opt) Pen (optional)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits ThinkPad Pen Pro, active pen for multi-touch display						
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Battery Max battery life <sup>10</sup>	
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in						
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)					AC adapter	
WLAN <sup>4</sup> Bluetooth™	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/UMTS/GNSS, M.2 card					Preload	
SIM card (opt)	Micro-SIM card, Verizon® LTE (4G), contract required with service provider						
						Limited warranty <sup>12</sup>	
						3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID	

See footnotes for more detailed information

(G-PY1-5) © Lenovo

# ThinkPad P70 20ES (Discrete) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20ES0004++	E3-1505M v5	vPro	M4000M	8GBx2 ECC	17.3" 4K IPS	No	None	256G SSD PCIe NVMe Opal2	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win7 P64	3-onsite	No	10/15	
20ES0005++	E3-1505M v5	vPro	M5000M	8GBx4 ECC	17.3" 4K IPS	No	None	2x512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win7 P64	3-onsite	No	10/15	
20ES0006++	E3-1505M v5	vPro	M4000M	16GBx1 ECC	17.3" FHD IPS	No	None	256G SSD PCIe NVMe Opal2	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger X-Rite	8	230W	Win7 P64	3-onsite	No	10/15	
20ES0007++	E3-1505M v5	vPro	M3000M	8GBx2 ECC	17.3" FHD IPS	No	None	256G SSD PCIe NVMe Opal2	No	DVD±RW	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win7 P64	3-onsite	No	10/15	
20ES001J++	E3-1575M v5	vPro	M5000M	16GBx2 ECC	17.3" 4K IPS	No	None	512G SSD PCIe NVMe	No	None	8260 ac+BT	None	None	Smart	720p	Backlit	Finger X-Rite	8	230W	Win10 DG Win7	3-onsite	No	04/16	

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P70 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family					Dimensions <sup>3</sup> <i>WxDxH:</i> 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm <i>WxDxH(Touch):</i> 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm <i>Non-touch model:</i> from 7.3 lb (3.3kg); <i>Multi-touch model:</i> from 8.1 lb (3.7kg) <i>Display cover:</i> Glass-Fiber + PPS; <i>Bottom:</i> Magnesium/Aluminum						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types					
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB		DDR4-2133					
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB							
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB							
E3-1575M v5	3 GHz		3.9 GHz									
Graphics	Intel HD Graphics 530, Intel HD Graphics P530, or Intel Iris™ Pro Graphics P580 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory)											
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)					Camera HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack						
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets											
Display	<i>Some:</i> 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle <i>Some:</i> 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle											
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits											
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display											
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS					Battery Li-Ion 8-cell (96Wh) Max battery life <sup>10</sup> <table><tr><td>Mode</td><td>Discrete Graphics</td><td>Hybrid Graphics</td></tr><tr><td>MobileMark® 2014</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>	Mode	Discrete Graphics	Hybrid Graphics	MobileMark® 2014	8.5 hr	10.8 hr
Mode	Discrete Graphics	Hybrid Graphics										
MobileMark® 2014	8.5 hr	10.8 hr										
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in											
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)					AC adapter 170W or 230W AC adapter						
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card											
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter											
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/UMTS/GNSS, M.2 card					Preload <i>Win7 P64:</i> Genuine Windows® 7 Professional 64 <i>Win10 DG Win7:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64						
SIM card (opt)	Micro-SIM card, Verizon® LTE (4G), contract required with service provider											
	Limited warranty <sup>12</sup> 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID											

See footnotes for more detailed information

(G-PY1-2) © Lenovo

# ThinkPad P70 20ES (Discrete) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graph-ics	Memory	Display	Multi-touch	Pen	Storage	RAID	Optical	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Color cali-brator	Bat-tery adapter	Power (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20ES001Q++	i7-6820HQ	vPro	M3000M	16GBx2 non-ECC	17.3" FHD IPS	No	None	512G SSD PCIe NVMe	No	DVD±RW	8260 ac+BT	None	None	None	720p	Backlit	Finger	None	8	230W	Win10 P64	3-onsite	No	04/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad P70 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family						Dimensions <sup>3</sup> <i>WxDxH:</i> 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm <i>WxDxH(Touch):</i> 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm <i>Non-touch model:</i> from 7.3 lb (3.3kg); <i>Multi-touch model:</i> from 8.1 lb (3.7kg) <i>Display cover:</i> Glass-Fiber + PPS; <i>Bottom:</i> Magnesium/Aluminum						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types							
	i7-6700HQ	4	2.6 GHz	3.5 GHz	6MB	DDR4-2133							
	i7-6820HQ		2.7 GHz	3.6 GHz	8MB								
	E3-1505M v5		2.8 GHz	3.7 GHz	8MB								
E3-1575M v5	3 GHz		3.9 GHz										
Graphics	Intel HD Graphics 530, Intel HD Graphics P530, or Intel Iris™ Pro Graphics P580 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory)												
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH)						Camera HD 720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack						
Memory	64GB max <sup>7</sup> / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets												
Display	<i>Some:</i> 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle <i>Some:</i> 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle												
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits												
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display												
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) <i>Some:</i> M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS						Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight UltraNav™ 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad						
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in												
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)						Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant vPro (optional) Intel vPro Technology Fingerprint reader Touch style fingerprint reader on the keyboard bezel Color calibration <i>Optional:</i> Pantone® color calibrator by X-Rite® color calibration sensor in palm rest						
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card												
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery Li-Ion 8-cell (96Wh) Max battery life <sup>10</sup> <table><tr><th>Mode</th><th>Discrete Graphics</th><th>Hybrid Graphics</th></tr><tr><td>MobileMark® 2014</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>	Mode	Discrete Graphics	Hybrid Graphics	MobileMark® 2014	8.5 hr	10.8 hr
Mode	Discrete Graphics	Hybrid Graphics											
MobileMark® 2014	8.5 hr	10.8 hr											
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/UMTS/GNSS, M.2 card						AC adapter 170W or 230W AC adapter						
SIM card (opt)	Micro-SIM card, Verizon® LTE (4G), contract required with service provider												
Preload <i>Win7 P64:</i> Genuine Windows® 7 Professional 64 <i>Win10 DG Win7:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64													
Limited warranty <sup>12</sup> 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID													

ThinkPad 11e (3<sup>rd</sup> Gen)

Product Specifications Reference (PSREF)



Lenovo® ThinkPad 11e (3<sup>rd</sup> Gen)



Lenovo ThinkPad 11e (3<sup>rd</sup> Gen)



Lenovo ThinkPad 11e (3<sup>rd</sup> Gen)



Lenovo ThinkPad 11e (3<sup>rd</sup> Gen)



Lenovo ThinkPad 11e (3<sup>rd</sup> Gen)

# ThinkPad 11e (3<sup>rd</sup> Gen) 20GB (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GB000V++	i3-6100U	HD 520	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 DG Win7	1-depot	No	02/16
20GB000W++	Pen 4405U	HD 510	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 DG Win7	1-depot	No	02/16
20GB0010++	Cel N3150	Intel HD	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 DG Win7	1-depot	No	02/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

Processor	Intel® Celeron® processor, Intel Pentium® Processor, or 6th Generation Intel Core™ i3 Processor								Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, HDMI, Ethernet (RJ-45)	
									Control buttons	Power button, volume control button	
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Camera	HD720p resolution, low light sensitive, fixed focus	
	Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	DDR3L-1600	Intel HD graphics	Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack	
	Cel N3160			1.6 GHz	2.24 GHz	2MB		Intel HD graphics 400			
Pen 4405U	2	4	2.1 GHz	-	2MB	Intel HD graphics 510		Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys		
i3-6100U			2.3 GHz	-	3MB	Intel HD graphics 520		Touchpad	Buttonless touchpad below keyboard, multi-touch		
Graphics	Intel HD Graphics, Intel HD Graphics 510, or Intel HD Graphics 520 in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI) @30Hz								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Chipset	Intel SoC (System on Chip) platform								Security chip	Trusted Platform Module, TCG 1.2-compliant	
Memory	2GB, 4GB, or 8GB / PC3-12800 1600MHz DDR3L, one DDR3L SO-DIMM socket								vPro	None	
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio								Fingerprint reader	None	
Multi-touch	None								Battery	Integrated Lithium Polymer 3-cell (42Wh)	
Hinge	Normal hinge, 180 degree								Max battery life <sup>10</sup>	MobileMark® 2014: 11.53 hr	
Storage	M.2 Solid State Drive (SSD), SATA 6.0Gb/s								AC adapter	45-watt AC adapter	
Optical	None								Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	
Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection									• Lenovo Solution Center	
WLAN <sup>4</sup>	One of the following, configurable by model: • 11ac+BT, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card									• Lenovo Solution Center	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter									• ThinkVantage Product Recovery	
										• Lenovo Companion	
WWAN	None									• Lenovo Setting	
Dimensions <sup>3</sup>	WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm								• Microsoft Office preloaded; purchase a product key to activate		
Weight <sup>2</sup>	from 3.3 lb (1.5kg)								• McAfee® LiveSafe™ (30-day trial)		
Case color	Display cover: Graphite Black or Silver; Bottom: Graphite Black								Limited warranty <sup>12</sup>	One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service (US only)	
Case material	Display cover: PC+40%GF+TPU; Bottom: PCC									Mil-Spec test	MIL-STD-810G military certification
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant	

See footnotes for more detailed information

(G-NT1W-1) © Lenovo

# ThinkPad 11e (3<sup>rd</sup> Gen) 20GB (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GB0006++	Cel N3150	Intel HD	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 Home 64	1-depot	No	02/16
20GB000X++	Cel N3150	Intel HD	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 Home 64	1-depot	No	02/16
20GB000Y++	Pen 4405U	HD 510	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 Home 64	1-depot	No	02/16
20GB000J++	Cel N3150	Intel HD	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	05/16
20GB000U++	i3-6100U	HD 520	4GBx1	11.6" HD	192G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	05/16
20GB0011++	i3-6100U	HD 520	4GBx1	11.6" HD	256G SSD Opal2	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	06/16
20GB0012++	Cel N3150	Intel HD	4GBx1	11.6" HD	256G SSD Opal2	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	06/16
20GB0013++	Cel N3150	Intel HD	4GBx1	11.6" HD	256G SSD Opal2	7265 ac+BT	Black	720p	None	3	45W	Win10 Home 64	1-depot	No	06/16
20GB001C++	Cel N3160	HD 400	4GBx1	11.6" HD	128G SSD	7265 ac+BT	Black	720p	None	3	45W	Win10 Home 64	1-depot	No	09/16
20GB001J++	Cel N3160	HD 400	4GBx1	11.6" HD	256G SSD Opal2	7265 ac+BT	Black	720p	None	3	45W	Win10 P64	1-depot	No	09/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

Processor	Intel® Celeron® processor, Intel Pentium® Processor, or 6th Generation Intel Core™ i3 Processor								Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, HDMI, Ethernet (RJ-45)			
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Control buttons	Power button, volume control button			
	Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	DDR3L-1600	Intel HD graphics	Camera	HD720p resolution, low light sensitive, fixed focus			
	Cel N3160			1.6 GHz	2.24 GHz	2MB		Intel HD graphics 400	Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack			
	Pen 4405U	2	4	2.1 GHz	-	2MB		Intel HD graphics 510	Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys			
i3-6100U	2.3 GHz			-	3MB	Intel HD graphics 520		Touchpad	Buttonless touchpad below keyboard, multi-touch				
Graphics	Intel HD Graphics, Intel HD Graphics 510, or Intel HD Graphics 520 in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI) @30Hz								Security chip vPro	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None			
Chipset	Intel SoC (System on Chip) platform								Fingerprint reader	None			
Memory	2GB, 4GB, or 8GB / PC3-12800 1600MHz DDR3L, one DDR3L SO-DIMM socket								Battery	Integrated Lithium Polymer 3-cell (42Wh)			
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio								Max battery life <sup>10</sup>	MobileMark® 2014: 11.53 hr			
Multi-touch	None								AC adapter	45-watt AC adapter			
Hinge	Normal hinge, 180 degree								Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Solution Center • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)			
Storage	M.2 Solid State Drive (SSD), SATA 6.0Gb/s								Limited warranty <sup>12</sup>	<i>Some:</i> Windows 10 Home 64 <i>Some:</i> Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)			
Optical	None												
Ethernet	Realtek RTL8111GUS-CG Gigabit Network Connection												
WLAN <sup>4</sup>	One of the following, configurable by model: • 11ac+BT, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card												
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
WWAN	None												
Dimensions <sup>3</sup>	WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm												
Weight <sup>2</sup>	from 3.3 lb (1.5kg)												
Case color	Display cover: Graphite Black or Silver; Bottom: Graphite Black								Mil-Spec test	MIL-STD-810G military certification			
Case material	Display cover: PC+40%GF+TPU; Bottom: PCC								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant			

See footnotes for more detailed information

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ThinkPad 11e (3<sup>rd</sup> Gen) Chromebook

Product Specifications Reference (PSREF)



Lenovo® ThinkPad 11e (3<sup>rd</sup> Gen) Chromebook



Lenovo ThinkPad 11e (3<sup>rd</sup> Gen) Chromebook



Lenovo ThinkPad 11e (3<sup>rd</sup> Gen) Chromebook

# ThinkPad 11e (3<sup>rd</sup> Gen) Chromebook 20GF (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GF0001++	Cel N3150	Intel HD	4GBx1	11.6" HD	16GB eMMC	7265 ac+BT	Black	720p	None	3	45W	Google Chrome	1-depot	No	03/16
20GF0003++	Cel N3160	HD 400	4GBx1	11.6" HD	16GB eMMC	7265 ac+BT	Black	720p	None	3	45W	Google Chrome	1-depot	No	10/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

Processor	Intel® Celeron® processor								Dimensions <sup>3</sup>	WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm									
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Weight <sup>2</sup>	from 3.3 lb (1.5kg)									
	Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	DDR3L-1600	Intel HD graphics	Case color	Display cover: Graphite Black or Silver; Bottom: Graphite Black									
	Cel N3160			1.6 GHz	2.24 GHz	2MB		Intel HD graphics 400	Case material	Display cover: PC+40%GF+TPU; Bottom: PCC									
Graphics	Intel HD Graphics or Intel HD Graphics 400 in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI) @30Hz								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)									
									Ports	Two USB 3.0 (one Always On), HDMI									
									Control buttons	None									
									Camera	HD720p resolution, low light sensitive, fixed focus									
Chipset	Intel SoC (System on Chip) platform								Audio support	Realtek® ALC5650 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack									
Memory	2GB or 4GB / 1600MHz LPDDR3 / soldered to systemboard, no sockets								Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys									
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio								Touchpad	Buttonless touchpad below keyboard, multi-touch									
Multi-touch	None								Security	Security keyhole									
Hinge									Normal hinge, 180 degree								Security chip	Trusted Platform Module, TCG 1.2-compliant	
																	vPro	None	
Storage									16GB eMMC (embedded Multi Media Card) flash memory on board								Fingerprint reader	None	
Optical	None								Battery	Integrated Lithium Polymer 3-cell (42Wh)									
Ethernet	None								Max battery life <sup>10</sup>	Up to 12 hr									
									AC adapter	45-watt AC adapter									
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card								Preload	Google Chrome OS									
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Limited warranty <sup>12</sup>	1-year depot repair service									
WWAN	None								Mil-Spec test	MIL-STD-810G military certification									
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant									

See footnotes for more detailed information

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# ThinkPad 11e (3<sup>rd</sup> Gen) Chromebook 20GD

Product Specifications Reference (PSREF)

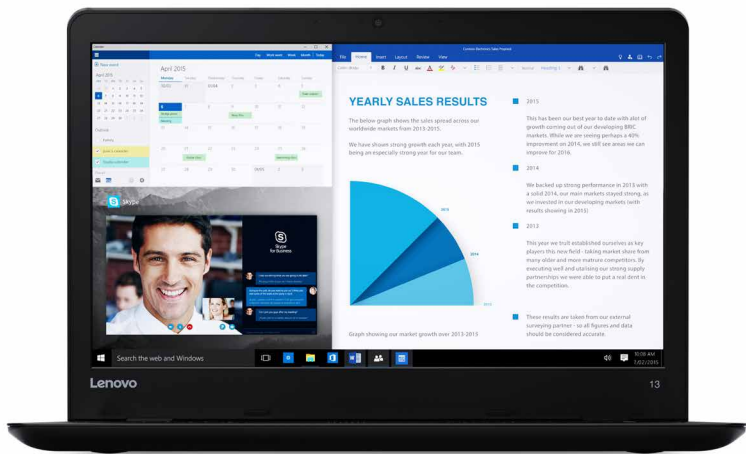
Model	Processor	Graphics	Memory	Display	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GD0004++	Cel N3150	Intel HD	4GBx1	11.6" HD	16GB eMMC	7265 ac+BT	Black	720p	None	3	45W	Google Chrome	1-depot	No	03/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

Processor	Intel® Celeron® processor								Dimensions <sup>3</sup>	WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm
	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Weight <sup>2</sup>	from 3.3 lb (1.5kg)
	Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	DDR3L-1600	Intel HD graphics	Case color	Display cover: Graphite Black or Silver; Bottom: Graphite Black
	Cel N3160			1.6 GHz	2.24 GHz	2MB		Intel HD graphics 400	Case material	Display cover: PC+40%GF+TPU; Bottom: PCC
Graphics	Intel HD Graphics or Intel HD Graphics 400 in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI) @30Hz								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
									Ports	Two USB 3.0 (one Always On), HDMI
									Control buttons	None
Chipset	Intel SoC (System on Chip) platform								Camera	HD720p resolution, low light sensitive, fixed focus
									Audio support	Realtek® ALC5650 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack
Memory	2GB or 4GB / 1600MHz LPDDR3 / soldered to systemboard, no sockets								Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio								Touchpad	Buttonless touchpad below keyboard, multi-touch
									Security	Security keyhole
Multi-touch	None								Security chip	Trusted Platform Module, TCG 1.2-compliant
									vPro	None
Hinge	Normal hinge, 180 degree								Fingerprint reader	None
Storage	16GB eMMC (embedded Multi Media Card) flash memory on board								Battery	Integrated Lithium Polymer 3-cell (42Wh)
Optical	None								Max battery life <sup>10</sup>	Up to 12 hr
Ethernet	None								AC adapter	45-watt AC adapter
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card								Preload	Google Chrome OS
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Limited warranty <sup>12</sup>	1-year depot repair service
WWAN	None								Mil-Spec test	MIL-STD-810G military certification
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

See footnotes for more detailed information

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Lenovo® ThinkPad 13



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# ThinkPad 13 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor								Smart card reader	None	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector	
	Cel 3855U	2	2	1.6 GHz	-	2MB	DDR4-2133	Intel HD graphics 510	Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	i3-6100U		4	2.3 GHz	-	3MB		Intel HD graphics 520			
	i5-6200U			2.3 GHz	2.8 GHz	3MB					
	i5-6300U			2.4 GHz	3.0 GHz	3MB					
i7-6500U	2.5 GHz			3.1 GHz	4MB						
Graphics	Intel HD Graphics 510 or 520 in processor, supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 1920x1080 (HDMI)@60Hz, 3840X2160 (USB Type-C)@60Hz								Security chip vPro (optional)	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology	
Chipset	Intel SoC (System on Chip) platform								Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel	
Memory	16GB max / 2133MHz DDR4, two DDR4 SO-DIMM sockets								Battery	Integrated Lithium Polymer 3-cell (42Wh)	
Display	Some: 13.3" (338mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 13.3" (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 220 nits, 16:9 aspect ratio, 600:1 contrast ratio, 170° viewing angle								Max battery life <sup>10</sup>	MobileMark® 2014: 11.6 hr	
Multi-touch	None								AC adapter	45-watt AC adapter	
Storage	M.2 SSD / SATA 6.0Gb/s								Preload	Some: Genuine Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)	Some: Windows 10 Home 64 Some: Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)
Optical	None										
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)										
WLAN <sup>4</sup>	One of the following, configurable by model: • 11ac+BT4.0, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card • 11ac+BT4.1, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card										
Bluetooth™	Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter										
WWAN	None								Limited warranty <sup>12</sup>	One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup>	
Dimensions <sup>3</sup>	WxDxH (silver): 12.69" x 8.77" x 0.75"; 322.4mm x 222.8mm x 19.1mm WxDxH (black): 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm										
Weight <sup>2</sup>	from 3.17 lb / 1.44 kg										
Case color	Pure Black or Silver								Mil-Spec test	MIL-STD-810G military certification	
Case material	Black cover: PC/ABS plastic; Silver cover: Aluminum								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant	

# ThinkPad 13 20GJ (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GJ001G++	i5-6200U	No	HD 520	4GBx1	13.3" FHD IPS	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	1-depot	No	03/16
20GJ003Q++	i5-6200U	No	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	1-depot	No	03/16
20GJ003R++	i3-6100U	No	HD 520	4GBx1	13.3" FHD IPS	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	1-depot	No	03/16
20GJ001J++	i3-6100U	No	HD 520	4GBx1	13.3" HD	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	1-depot	No	03/16
20GJ003S++	i3-6100U	No	HD 520	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 DG Win7	1-depot	No	03/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad 13 Platform Specifications sheet](#)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor					Smart card reader	None	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	Cel 3855U	2	1.6 GHz	-	2MB	DDR4-2133	Ports	Three USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector
	i3-6100U		2.3 GHz	-	3MB		Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
	i5-6200U		2.3 GHz	2.8 GHz	3MB			
	i5-6300U		2.4 GHz	3.0 GHz	3MB			
	i7-6500U		2.5 GHz	3.1 GHz	4MB			
Graphics	Intel HD Graphics 510 or 520 in processor					Keyboard UltraNav™	ThinkPad Windows keyboard, 6-row, multimedia Fn keys TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch	
Chipset	Intel SoC (System on Chip) platform					Security	Power-on password, hard disk password, supervisor password, security keyhole	
Memory	16GB max / 2133MHz DDR4, two DDR4 SO-DIMM sockets					Security chip	Trusted Platform Module, TCG 1.2-compliant	
Display	Some: 13.3" (338mm) HD (1366x768), 200 nits, 500:1 contrast ratio Some: 13.3" (338mm) FHD (1920x1080), 220 nits, 600:1 contrast ratio, IPS					vPro (optional)	Intel vPro Technology	
Multi-touch	None					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel	
Storage	M.2 SSD / SATA 6.0Gb/s					Battery	Integrated Lithium Polymer 3-cell (42Wh)	
Optical	None					Max battery life <sup>10</sup>	MobileMark® 2014: 11.6 hr	
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					AC adapter	45-watt AC adapter	
WLAN <sup>4</sup>	3165 ac+BT4.0: Intel Dual Band Wireless-AC 3165, 1x1, M.2 card 8260 ac+BT4.1: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Preload	Win7 P64:	Genuine Windows® 7 Professional 64
Bluetooth™	Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Win10 DG Win7:	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
WWAN	None						Win10 Home 64:	Windows 10 Home 64
Dimensions <sup>3</sup>	WxDxH (silver): 12.69" x 8.77" x 0.75"; 322.4mm x 222.8mm x 19.1mm WxDxH (black): 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm					Win10 P64:	Windows 10 Pro 64	
Weight <sup>2</sup>	from 3.17 lb / 1.44 kg					Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite		
Case color	Pure Black or Silver							
Case material	Black cover: PC/ABS plastic; Silver cover: Aluminum							

See footnotes for more detailed information

(G-BL1W-1) © Lenovo

# ThinkPad 13 20GJ (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GJ003T++	Cel 3855U	No	HD 510	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 Home 64	1-depot	No	03/16
20GJ003U++	Cel 3855U	No	HD 510	4GBx1	13.3" HD	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 Home 64	1-depot	No	03/16
20GJ003V++	i3-6100U	No	HD 520	4GBx1	13.3" HD	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 Home 64	1-depot	No	03/16
20GJ005D++	i7-6500U	No	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	04/16
20GJ001F++	i5-6200U	No	HD 520	4GBx1	13.3" FHD IPS	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	03/16
20GJ0048++	i5-6200U	No	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	03/16
20GJ0049++	i3-6100U	No	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	03/16
20GJ001H++	i3-6100U	No	HD 520	4GBx1	13.3" HD	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	03/16
20GJ004A++	i3-6100U	No	HD 520	8GBx1	13.3" HD	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	03/16
20GJ0068++	i7-6500U	No	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 P64	1-depot	No	06/16
20GJ0069++	i3-6100U	No	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 P64	1-depot	No	06/16
20GJ006A++	i5-6300U	vPro	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 P64	1-depot	No	06/16
20GJ006B++	i5-6200U	No	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 P64	1-depot	No	06/16
20GJ0059++	i5-6200U	No	HD 520	4GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	06/16
20GJ0067++	i3-6100U	No	HD 520	4GBx1	13.3" HD	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	06/16
20GJ006H++	i5-6200U	No	HD 520	4GBx1	13.3" HD	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	07/16
20GJ006J++	i5-6200U	No	HD 520	8GBx1	13.3" HD	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	07/16
20GJ0006++	Cel 3855U	No	HD 510	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	08/16
20GJ005E++	i3-6100U	No	HD 520	4GBx1	13.3" HD	No	128G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	08/16
20GJ006L++	i3-6100U	No	HD 520	8GBx1	13.3" FHD IPS	No	256G SSD Opal2	8260 ac+BT4.1	Silver	720p	None	3	45W	Win10 P64	1-depot	No	08/16
20GJ006K++	Cel 3855U	No	HD 510	4GBx1	13.3" HD	No	256G SSD Opal2	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	08/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad 13 Platform Specifications sheet](#)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor					Smart card reader	None	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	Cel 3855U	2	1.6 GHz	-	2MB	DDR4-2133	Ports	Three USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector
	i3-6100U		2.3 GHz	-	3MB		Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
	i5-6200U		2.3 GHz	2.8 GHz	3MB			
	i5-6300U		2.4 GHz	3.0 GHz	3MB			
	i7-6500U		2.5 GHz	3.1 GHz	4MB		Keyboard	ThinkPad Windows keyboard, 6-row, multimedia Fn keys
Graphics	Intel HD Graphics 510 or 520 in processor					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch	
Chipset	Intel SoC (System on Chip) platform					Security	Power-on password, hard disk password, supervisor password, security keyhole	
Memory	16GB max / 2133MHz DDR4, two DDR4 SO-DIMM sockets					Security chip	Trusted Platform Module, TCG 1.2-compliant	
Display	Some: 13.3" (338mm) HD (1366x768), 200 nits, 500:1 contrast ratio Some: 13.3" (338mm) FHD (1920x1080), 220 nits, 600:1 contrast ratio, IPS					vPro (optional)	Intel vPro Technology	
Multi-touch	None					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel	
Storage	M.2 SSD / SATA 6.0Gb/s					Battery	Integrated Lithium Polymer 3-cell (42Wh)	
Optical	None					Max battery life <sup>10</sup>	MobileMark® 2014: 11.6 hr	
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					AC adapter	45-watt AC adapter	
WLAN <sup>4</sup>	3165 ac+BT4.0: Intel Dual Band Wireless-AC 3165, 1x1, M.2 card 8260 ac+BT4.1: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Preload	Win7 P64:	Genuine Windows® 7 Professional 64
Bluetooth™	Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Win10 DG Win7:	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
							Win10 Home 64:	Windows 10 Home 64
WWAN	None					Win10 P64:	Windows 10 Pro 64	
Dimensions <sup>3</sup>	WxDxH (silver): 12.69" x 8.77" x 0.75"; 322.4mm x 222.8mm x 19.1mm WxDxH (black): 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm					Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite		
Weight <sup>2</sup>	from 3.17 lb / 1.44 kg							
Case color	Pure Black or Silver							
Case material	Black cover: PC/ABS plastic; Silver cover: Aluminum							

See footnotes for more detailed information

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# ThinkPad 13 20GK (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GK004F++	i5-6300U	vPro	HD 520	8GBx1	13.3" FHD IPS	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	04/16
20GK004G++	i5-6300U	vPro	HD 520	4GBx1	13.3" HD	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	1-depot	No	04/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad 13 Platform Specifications sheet](#)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor						Smart card reader	None	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
	Cel 3855U	2	1.6 GHz	-	2MB	DDR4-2133	Ports	Three USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector	
	i3-6100U		2.3 GHz	-	3MB		Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
	i5-6200U		2.3 GHz	2.8 GHz	3MB				
	i5-6300U		2.4 GHz	3.0 GHz	3MB				
	i7-6500U		2.5 GHz	3.1 GHz	4MB				
Graphics	Intel HD Graphics 510 or 520 in processor						Keyboard UltraNav™	ThinkPad Windows keyboard, 6-row, multimedia Fn keys TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch	
Chipset	Intel SoC (System on Chip) platform						Security	Power-on password, hard disk password, supervisor password, security keyhole	
Memory	16GB max / 2133MHz DDR4, two DDR4 SO-DIMM sockets						Security chip	Trusted Platform Module, TCG 1.2-compliant	
Display	<i>Some:</i> 13.3" (338mm) HD (1366x768), 200 nits, 500:1 contrast ratio <i>Some:</i> 13.3" (338mm) FHD (1920x1080), 220 nits, 600:1 contrast ratio, IPS						vPro ( <i>optional</i> )	Intel vPro Technology	
Multi-touch	None						Fingerprint reader	<i>Optional:</i> Swipe style fingerprint reader on the keyboard bezel	
Storage	M.2 SSD / SATA 6.0Gb/s						Battery	Integrated Lithium Polymer 3-cell (42Wh)	
Optical	None						Max battery life <sup>10</sup>	<i>MobileMark® 2014:</i> 11.6 hr	
Ethernet	Intel Ethernet Connection I219-V ( <i>Non-vPro model</i> ) or I219-LM ( <i>vPro model</i> )						AC adapter	45-watt AC adapter	
WLAN <sup>4</sup>	3165 ac+BT4.0: Intel Dual Band Wireless-AC 3165, 1x1, M.2 card 8260 ac+BT4.1: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						Preload	Win7 P64:	Genuine Windows® 7 Professional 64
Bluetooth™	Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter							Win10 DG Win7:	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
								Win10 Home 64:	Windows 10 Home 64
WWAN	None						Win10 P64:	Windows 10 Pro 64	
Dimensions <sup>3</sup>	<i>WxDxH (silver):</i> 12.69" x 8.77" x 0.75"; 322.4mm x 222.8mm x 19.1mm <i>WxDxH (black):</i> 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm						Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite		
Weight <sup>2</sup>	from 3.17 lb / 1.44 kg								
Case color	Pure Black or Silver								
Case material	<i>Black cover:</i> PC/ABS plastic; <i>Silver cover:</i> Aluminum								

See footnotes for more detailed information

(G-BL1W-3) © Lenovo

# ThinkPad 13 20GK (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GK004J++	i5-6300U	vPro	HD 520	8GBx1	13.3" FHD IPS	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-onsite	No	04/16
20GK004H++	i5-6300U	vPro	HD 520	4GBx1	13.3" HD	No	192G SSD	8260 ac+BT4.1	Black	720p	Finger	3	45W	Win10 P64	3-onsite	No	04/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad 13 Platform Specifications sheet](#)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor					Smart card reader	None	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	Cel 3855U	2	1.6 GHz	-	2MB	DDR4-2133	Ports	Three USB 3.0 (one Always On), one USB Type-C, HDMI, Lenovo OneLink+ connector
	i3-6100U		2.3 GHz	-	3MB		Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
	i5-6200U		2.3 GHz	2.8 GHz	3MB			
	i5-6300U		2.4 GHz	3.0 GHz	3MB			
	i7-6500U		2.5 GHz	3.1 GHz	4MB			
Graphics	Intel HD Graphics 510 or 520 in processor					Keyboard UltraNav™	ThinkPad Windows keyboard, 6-row, multimedia Fn keys TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch	
Chipset	Intel SoC (System on Chip) platform					Security	Power-on password, hard disk password, supervisor password, security keyhole	
Memory	16GB max / 2133MHz DDR4, two DDR4 SO-DIMM sockets					Security chip	Trusted Platform Module, TCG 1.2-compliant	
Display	Some: 13.3" (338mm) HD (1366x768), 200 nits, 500:1 contrast ratio Some: 13.3" (338mm) FHD (1920x1080), 220 nits, 600:1 contrast ratio, IPS					vPro (optional)	Intel vPro Technology	
Multi-touch	None					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel	
Storage	M.2 SSD / SATA 6.0Gb/s					Battery	Integrated Lithium Polymer 3-cell (42Wh)	
Optical	None					Max battery life <sup>10</sup>	MobileMark® 2014: 11.6 hr	
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					AC adapter	45-watt AC adapter	
WLAN <sup>4</sup>	3165 ac+BT4.0: Intel Dual Band Wireless-AC 3165, 1x1, M.2 card 8260 ac+BT4.1: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Preload	Win7 P64:	Genuine Windows® 7 Professional 64
Bluetooth™	Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Win10 DG Win7:	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
							Win10 Home 64:	Windows 10 Home 64
WWAN	None						Win10 P64:	Windows 10 Pro 64
Dimensions <sup>3</sup>	WxDxH (silver): 12.69" x 8.77" x 0.75"; 322.4mm x 222.8mm x 19.1mm WxDxH (black): 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm					Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite		
Weight <sup>2</sup>	from 3.17 lb / 1.44 kg							
Case color	Pure Black or Silver							
Case material	Black cover: PC/ABS plastic; Silver cover: Aluminum							

See footnotes for more detailed information

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Lenovo® ThinkPad 13 Chromebook



Lenovo ThinkPad 13 Chromebook



Lenovo ThinkPad 13 Chromebook



Lenovo ThinkPad 13 Chromebook



Lenovo ThinkPad 13 Chromebook

ThinkPad 13 Chromebook Platform Specifications

Product Specifications Reference (PSREF)

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor								Smart card reader	None
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (Always On), two USB Type-C
	Cel 3855U	2	2	1.6 GHz	-	2MB	LPDDR3-1866	Intel HD graphics 510	Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Nuvoton NAU88L25B codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
	i3-6100U		4	2.3 GHz	-	3MB		Intel HD graphics 520		
i5-6300U	2.4 GHz			3.0 GHz	3MB					
Graphics	Intel HD Graphics 510 or 520 in processor, supports external digital monitor via USB Type-C; supports three independent displays; Max resolution: 3840X2160 (USB Type-C)@60Hz								Keyboard Touchpad	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys Buttonless touchpad below keyboard, multi-touch
Chipset	Intel SoC (System on Chip) platform								Security	Security keyhole
Memory	4GB or 8GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets								Security chip vPro	Trusted Platform Module, TCG 1.2-compliant None
Display	<i>Some:</i> 13.3" (338mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 13.3" (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 220 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle								Fingerprint reader	None
Multi-touch	None								Battery	Integrated Lithium Polymer 3-cell (42Wh)
Storage	16GB or 32GB eMMC (embedded Multi Media Card) flash memory on board								Max battery life <sup>10</sup>	13 hr
Optical	None								AC adapter	USB Type-C 45-watt AC adapter
Ethernet	None								Preload	Google Chrome OS
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card								Limited warranty <sup>12</sup>	1-year depot repair service
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Mil-Spec test	MIL-STD-810G military certification
WWAN	None								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant
Dimensions <sup>3</sup>	WxDxH: 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm									
Weight <sup>2</sup>	from 3.1 lb / 1.41 kg									
Case color	Pure Black									
Case material	PC/ABS plastic									

# ThinkPad 13 Chromebook 20GL (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GL0000++	Cel 3855U	No	HD 510	2GBx2	13.3" HD	No	16GB eMMC	7265 ac+BT4.0	Black	720p	None	3	45W	Google Chrome	1-depot	No	05/16
20GL0002++	i3-6100U	No	HD 520	2GBx2	13.3" HD	No	16GB eMMC	7265 ac+BT4.0	Black	720p	None	3	45W	Google Chrome	1-depot	No	05/16

• For detailed platform specifications, please see [ThinkPad 13 Chromebook Platform Specifications sheet](#)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor						Smart card reader	None
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	Cel 3855U	2	1.6 GHz	-	2MB	DDR4-2133	Ports	Two USB 3.0 (Always On), two USB Type-C
	i3-6100U		2.3 GHz	-	3MB		Camera	HD720p resolution, low light sensitive, fixed focus
i5-6300U	2.4 GHz		3.0 GHz	3MB	Audio support		HD Audio, Nuvoton NAU88L25B codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
Graphics	Intel HD Graphics 510 or 520 in processor						Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
Chipset	Intel SoC (System on Chip) platform						Touchpad	Buttonless touchpad below keyboard, multi-touch
Memory	4GB or 8GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets						Security	Security keyhole
Display	Some: 13.3" (338mm) HD (1366x768), 200 nits, 500:1 contrast ratio Some: 13.3" (338mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS						Security chip	Trusted Platform Module, TCG 1.2-compliant
Multi-touch	None						vPro	None
Storage	16GB or 32GB eMMC (embedded Multi Media Card) flash memory on board						Fingerprint reader	None
Optical	None						Battery	Integrated Lithium Polymer 3-cell (42Wh)
Ethernet	None						Max battery life <sup>10</sup>	13 hr
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card						AC adapter	USB Type-C 45-watt AC adapter
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Preload	Google Chrome OS
WWAN	None						Limited warranty <sup>12</sup> 1-year depot repair service	
Dimensions <sup>3</sup>	WxDxH: 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm							
Weight <sup>2</sup>	from 3.1 lb / 1.41 kg							
Case color	Pure Black							
Case material	PC/ABS plastic							

See footnotes for more detailed information

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# ThinkPad 13 Chromebook 20GM

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	Top color	Camera	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20GM0000++	i5-6300U	No	HD 520	4GBx2	13.3" FHD IPS	No	32GB eMMC	7265 ac+BT4.0	Black	720p	None	3	45W	Google Chrome	1-depot	No	05/16
20GM0001++	Cel 3855U	No	HD 510	2GBx2	13.3" HD	No	16GB eMMC	7265 ac+BT4.0	Black	720p	None	3	45W	Google Chrome	1-depot	No	05/16

• For detailed platform specifications, please see [ThinkPad 13 Chromebook Platform Specifications sheet](#)

Processor	Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 Processor						Smart card reader	None
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	Cel 3855U	2	1.6 GHz	-	2MB	DDR4-2133	Ports	Two USB 3.0 (Always On), two USB Type-C
	i3-6100U		2.3 GHz	-	3MB		Camera	HD720p resolution, low light sensitive, fixed focus
i5-6300U	2.4 GHz		3.0 GHz	3MB	Audio support		HD Audio, Nuvoton NAU88L25B codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	
Graphics	Intel HD Graphics 510 or 520 in processor						Keyboard	ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
Chipset	Intel SoC (System on Chip) platform						Touchpad	Buttonless touchpad below keyboard, multi-touch
Memory	4GB or 8GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets						Security	Security keyhole
Display	<i>Some:</i> 13.3" (338mm) HD (1366x768), 200 nits, 500:1 contrast ratio <i>Some:</i> 13.3" (338mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS						Security chip	Trusted Platform Module, TCG 1.2-compliant
Multi-touch	None						vPro	None
Storage	16GB or 32GB eMMC (embedded Multi Media Card) flash memory on board						Fingerprint reader	None
Optical	None						Battery	Integrated Lithium Polymer 3-cell (42Wh)
Ethernet	None						Max battery life <sup>10</sup>	13 hr
WLAN <sup>4</sup>	11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card						AC adapter	USB Type-C 45-watt AC adapter
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Preload	Google Chrome OS
WWAN	None						Limited warranty <sup>12</sup>	1-year depot repair service
Dimensions <sup>3</sup>	WxDxH: 12.69" x 8.77" x 0.78"; 322.4mm x 222.8mm x 19.8mm							
Weight <sup>2</sup>	from 3.1 lb / 1.41 kg							
Case color	Pure Black							
Case material	PC/ABS plastic							

See footnotes for more detailed information

(G-BL1C-2) © Lenovo



Lenovo® ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250

## ThinkPad X250 Platform Specifications

Product Specifications Reference (PSREF)

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart card reader		Optional: Smart card reader																
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																	
	i3-5010U	2	4	2.1 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 5500	Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector																	
	i5-5200U			2.2 GHz	2.7 GHz	3MB																					
	i5-5300U			2.3 GHz	2.9 GHz	3MB																					
	i7-5600U			2.6 GHz	3.2 GHz	4MB																					
Graphics	Intel HD Graphics 5500 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)								Camera (optional)	HD720p resolution, low light sensitive, fixed focus																	
Chipset	Intel SoC (System on Chip) platform								Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack																	
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch																	
Display	<i>Some:</i> 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some:</i> 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS <i>Some:</i> 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								Security	Power-on password, hard disk password, supervisor password, security keyhole																	
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits								Security chip ThinkEngine	Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures																	
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory								vPro (optional)	Intel vPro Technology																	
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot								Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor																	
Optical	None								Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)																	
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)																	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Max battery life <sup>10</sup>	<table><tr><th>Models</th><th>No + 3-cell</th><th>3-cell + 3-cell</th><th>3-cell + 6-cell 48Wh</th><th>3-cell + 6-cell 72Wh</th></tr><tr><td>Battery life</td><td>5.2 hr</td><td>10.7 hr</td><td>16.0 hr</td><td>21.4 hr</td></tr></table>			Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr					
Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh																							
Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr																							
WLAN <sup>4</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>• 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li><li>• 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li><li>• 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li><li>• 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li></ul>								AC adapter	45W AC adapter																	
WWAN (optional)	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>• Wireless WAN upgradable</li><li>• Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card</li><li>• Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card</li></ul>								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"><li>• Lenovo Solution Center</li><li>• Lenovo SHAREit</li><li>• ThinkVantage Product Recovery</li><li>• Rescue and Recovery™</li><li>• ThinkVantage System Update</li><li>• PC Device Stage</li><li>• Adobe® Reader®</li><li>• Microsoft® Office preloaded; purchase a product key to activate</li><li>• Norton™ Internet Security (30 days of virus definitions)</li></ul> <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 10 Pro 64 <ul style="list-style-type: none"><li>• Lenovo Solution Center</li><li>• Lenovo SHAREit</li><li>• Lenovo REACHit</li><li>• Lenovo Companion</li><li>• Microsoft Office preloaded; purchase a product key to activate</li><li>• Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)</li><li>• McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)</li></ul>																	
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider								Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>• 1-year depot repair service</li><li>• 3-year/1-yr battery depot repair service</li><li>• 3-year/1-yr battery limited onsite service<sup>24</sup></li><li>• 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)</li></ul>																	
Dimensions <sup>3</sup>	<i>12.5" (WxDxH):</i> 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm <i>12.5" Touch (WxDxH):</i> 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm								Mil-Spec test	MIL-STD-810G military certification																	
Weight <sup>2</sup>	<table><tr><th>Models</th><th>No + 3-cell</th><th>3-cell + 3-cell</th><th>No + 6-cell</th><th>3-cell + 6-cell</th></tr><tr><td>Non-touch</td><td>2.88 lb / 1.31 kg</td><td>3.13 lb / 1.42 kg</td><td>3.23 lb / 1.47 kg</td><td>3.48 lb / 1.58 kg</td></tr><tr><td>Multi-touch</td><td>-</td><td>3.29 lb / 1.49 kg</td><td>-</td><td>3.64 lb / 1.65 kg</td></tr></table>								Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell	Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg	Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg	Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant		
Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell																							
Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg																							
Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg																							
Case material	<i>Display cover:</i> Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); <i>Bottom:</i> Glass-Fiber Reinforced Plastic																										

# ThinkPad X250 20CM (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20CM0020++	i3-5010U	No	HD 5500	4GBx1	12.5" HD	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-depot	No	01/15
20CM0053++	i3-5010U	No	HD 5500	4GBx1	12.5" HD	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	08/15

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight <sup>2</sup>	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i3-5010U	2	2.1 GHz	-	3MB	DDR3L-1600			Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
	i5-5200U		2.2 GHz	2.7 GHz	3MB				Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB								
	i7-5600U		2.6 GHz	3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
								Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr	
							AC adapter	45W AC adapter					
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
								Win8.1 64:	Windows 8.1 64-bit				
								Win8.1 P64:	Windows 8.1 Pro 64-bit				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV2-1) © Lenovo

# ThinkPad X250 20CM (TopSeller) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CM001V++	i5-5200U	No	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM001W++	i5-5200U	No	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	N5321	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM001X++	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM0024++	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM0028++	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM0025++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM0026++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	N5321	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM0027++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM001R++	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	No	512G SSD	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM001S++	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	No	512G SSD	None	7265 ac+BT	N5321	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM001T++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	N5321	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM001U++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM004D++	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	192G SSD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	05/15
20CM004A++	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	05/15
20CM004C++	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD IPS	No	192G SSD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	05/15
20CM004B++	i7-5600U	vPro	HD 5500	16GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	05/15
20CM004E++	i7-5600U	vPro	HD 5500	16GBx1	12.5" FHD IPS	No	512G SSD	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	05/15

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup>  Weight <sup>2</sup>  Case material	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i3-5010U	2	2.1 GHz	-	3MB		DDR3L-1600	Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
	i5-5200U		2.2 GHz	2.7 GHz	3MB			Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB			Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic				
i7-5600U	2.6 GHz		3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor					Smart card reader	Optional: Smart card reader					
Chipset	Intel SoC (System on Chip) platform					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket					Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Optical	None					Security	Power-on password, hard disk password, supervisor password, security keyhole					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)					Security chip	Trusted Platform Module, TCG 1.2-compliant					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					vPro (optional)	Intel vPro Technology					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card					Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
WWAN (optional)	Upg: Wireless WAN upgradable					Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
	N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card					External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
	EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					AC adapter	45W AC adapter					
							Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
								Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV2-2) © Lenovo

# ThinkPad X250 20CM (TopSeller) - Onsite - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CM004U++	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	No	512G SSD	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM004W++	i7-5600U	vPro	HD 5500	16GBx1	12.5" FHD IPS	No	512G SSD	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM004T++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM004V++	i5-5200U	No	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM004X++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM004Y++	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	192G SSD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM0050++	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM0051++	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM0052++	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM0055++	i5-5200U	No	HD 5500	8GBx1	12.5" HD IPS	No	192G SSD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM0054++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	08/15
20CM008M++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	192G SSD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	09/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight <sup>2</sup>	12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm				
	i3-5010U	2	2.1 GHz	-	3MB	DDR3L-1600			Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i5-5200U		2.2 GHz	2.7 GHz	3MB				Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	i7-5600U		2.6 GHz	3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
								Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr	
							AC adapter	45W AC adapter					
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
								Win8.1 64:	Windows 8.1 64-bit				
								Win8.1 P64:	Windows 8.1 Pro 64-bit				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV2-6) © Lenovo

# ThinkPad X250 20CM (TopSeller) - Onsite (Windows 8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20CM001P++	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-onsite	No	01/15
20CM001Q++	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	N5321	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-onsite	No	01/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight <sup>2</sup>	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i3-5010U	2	2.1 GHz	-	3MB	DDR3L-1600			Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
	i5-5200U		2.2 GHz	2.7 GHz	3MB				Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB								
	i7-5600U		2.6 GHz	3.2 GHz	4MB								
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
	N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
	EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						AC adapter	45W AC adapter					
							Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64					
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV2-3) © Lenovo

# ThinkPad X250 20CM

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20CM0021++	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD	No	500G 7200	16GB	7265 a/b/g/n+BT	Upg	None	None	720p	None	None	No+6(48wh)	45W	Win8.1 DG Win7	3-depot	No	01/15

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
								12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight <sup>2</sup>	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i3-5010U	2	2.1 GHz	-	3MB	DDR3L-1600			Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
	i5-5200U		2.2 GHz	2.7 GHz	3MB				Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB								
i7-5600U	2.6 GHz		3.2 GHz	4MB									
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
								Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr	
							AC adapter	45W AC adapter					
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
								Win8.1 64:	Windows 8.1 64-bit				
								Win8.1 P64:	Windows 8.1 Pro 64-bit				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV2-1) © Lenovo

# ThinkPad X250 20CL (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Cam-era	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)	
20CL001D++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	Yes	01/15	
20CL001F++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	Yes	01/15	
20CL001G++	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD	No	500G 7200	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	Yes	01/15	
20CL001J++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	Yes	01/15	
20CL001N++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	Yes	01/15	
20CL001B++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	Yes	01/15	
20CL001L++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	Yes	01/15	
20CL004W++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	No	03/15
20CL004X++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	180G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	No	03/15
20CL004Y++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	No	03/15
20CL0050++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	No	03/15
20CL004V++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	OID	No	03/15
20CL00A9++	i5-5300U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15	
20CL00AA++	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15	
20CL00AB++	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15	
20CL00A6++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15	
20CL00A7++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15	
20CL00A8++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15	
20CL00A0++	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15	
20CL00A1++	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15	

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
								12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight <sup>2</sup>	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i3-5010U	2	2.1 GHz	-	3MB	DDR3L-1600			Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
	i5-5200U		2.2 GHz	2.7 GHz	3MB				Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
i5-5300U	2.3 GHz		2.9 GHz	3MB	Case material								
i7-5600U	2.6 GHz		3.2 GHz	4MB	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic								
Graphics	Intel HD Graphics 5500 in processor												
Chipset	Intel SoC (System on Chip) platform						Smart card readerOptional: Smart card reader						
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)						
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS						PortsTwo USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector						
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)HD720p resolution, low light sensitive, fixed focus						
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio supportHD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack						
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
Optical	None						UltraNav™TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch						
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						SecurityPower-on password, hard disk password, supervisor password, security keyhole						
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chipTrusted Platform Module, TCG 1.2-compliant						
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)Intel vPro Technology						
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint readerOptional: Fingerprint reader on the keyboard bezel, swipe sensor						
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						Internal batteryOptional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)						
							External batteryLi-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)						
							Max battery life <sup>10</sup>						
							ModelsNo + 3-cell3-cell + 3-cell3-cell + 6-cell 48Wh3-cell + 6-cell 72Wh						
							Battery life5.2 hr10.7 hr16.0 hr21.4 hr						
							AC adapter45W AC adapter						
							PreloadWin8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64						
							Win8.1 64: Windows 8.1 64-bit						
							Win8.1 P64: Windows 8.1 Pro 64-bit						
							Win10 P64: Windows 10 Pro 64						
							Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID						

See footnotes for more detailed information

(G-WV2-4) © Lenovo

# ThinkPad X250 20CL (Onsite) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit key-board	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CL00A2++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15
20CL00A3++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15
20CL00A4++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	128G SSD	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15
20CL00A5++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	Yes	09/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight <sup>2</sup>					
	i3-5010U	2	2.1 GHz	-	3MB	DDR3L-1600			Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i5-5200U		2.2 GHz	2.7 GHz	3MB				Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB				Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
i7-5600U	2.6 GHz		3.2 GHz	4MB									
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
								Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr	
							AC adapter	45W AC adapter					
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
								Win8.1 64:	Windows 8.1 64-bit				
								Win8.1 P64:	Windows 8.1 Pro 64-bit				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV2-7) © Lenovo

# ThinkPad X250 20CM (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CM001Y++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	240G SSD Opal2	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15
20CM0023++	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD	No	128G SSD	None	7265 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win8.1 DG Win7	3-onsite	No	01/15

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight <sup>2</sup>	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i3-5010U	2	2.1 GHz	-	3MB	DDR3L-1600			Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
	i5-5200U		2.2 GHz	2.7 GHz	3MB				Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB								
i7-5600U	2.6 GHz		3.2 GHz	4MB									
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
								Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr	
							AC adapter	45W AC adapter					
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
								Win8.1 64:	Windows 8.1 64-bit				
								Win8.1 P64:	Windows 8.1 Pro 64-bit				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV2-2) © Lenovo

# ThinkPad X250 20CL (Onsite) - Windows 8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CL001C++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-onsite	Yes	01/15
20CL001E++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win8.1 P64	3-onsite	Yes	01/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Weight <sup>2</sup>	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell
	i3-5010U	2	2.1 GHz	-	3MB	DDR3L-1600			Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
	i5-5200U		2.2 GHz	2.7 GHz	3MB				Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
	i5-5300U		2.3 GHz	2.9 GHz	3MB								
i7-5600U	2.6 GHz		3.2 GHz	4MB									
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
								Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr	
							AC adapter	45W AC adapter					
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
								Win8.1 64:	Windows 8.1 64-bit				
								Win8.1 P64:	Windows 8.1 Pro 64-bit				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV2-5) © Lenovo

# ThinkPad X250 20CL (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	M.2 SSD	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Fingerprint reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20CL00BK++	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BL++	i5-5200U	No	HD 5500	4GBx1	12.5" FHD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BS++	i7-5600U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BU++	i5-5300U	vPro	HD 5500	8GBx1	12.5" FHD IPS	MT	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BV++	i7-5600U	vPro	HD 5500	16GBx1	12.5" FHD IPS	MT	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BJ++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BM++	i5-5300U	vPro	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BN++	i7-5600U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BP++	i5-5200U	No	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BQ++	i7-5600U	vPro	HD 5500	16GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BR++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BT++	i5-5300U	vPro	HD 5500	8GBx1	12.5" HD IPS	No	256G SSD Opal2	None	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BW++	i7-5600U	vPro	HD 5500	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15
20CL00BX++	i5-4300U	vPro	HD 4400	4GBx1	12.5" HD IPS	No	500G 7200	16GB	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	Yes	09/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications](#) sheet

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup>		12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight <sup>2</sup>	Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell	
	i3-5010U	2	2.1 GHz	-	3MB	DDR3L-1600		Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg	
	i5-5200U		2.2 GHz	2.7 GHz	3MB			Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg	
	i5-5300U		2.3 GHz	2.9 GHz	3MB								
i7-5600U	2.6 GHz		3.2 GHz	4MB									
Graphics	Intel HD Graphics 5500 in processor						Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform						Smart card reader	Optional: Smart card reader					
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS						Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits						Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack					
M.2 SSD (opt)	M.2 Solid State Drive (SSD), via M.2 card slot						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Ethernet	Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model)						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security chip	Trusted Platform Module, TCG 1.2-compliant					
WLAN <sup>4</sup>	11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						vPro (optional)	Intel vPro Technology					
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						Fingerprint reader	Optional: Fingerprint reader on the keyboard bezel, swipe sensor					
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
							Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
								Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr	
							AC adapter	45W AC adapter					
							Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
								Win8.1 64:	Windows 8.1 64-bit				
								Win8.1 P64:	Windows 8.1 Pro 64-bit				
								Win10 P64:	Windows 10 Pro 64				
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

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# ThinkPad X260 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader											
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)										
	i3-6100U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD graphics 520	Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector										
	i5-6200U			2.3 GHz	2.8 GHz	3MB			WiGig dock	None										
	i5-6300U			2.4 GHz	3.0 GHz	3MB			Monitor cable	<i>Optional</i> : HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable										
	i7-6500U			2.5 GHz	3.1 GHz	4MB			Camera ( <i>optional</i> )	HD720p resolution, low light sensitive, fixed focus										
i7-6600U	2.6 GHz			3.4 GHz	4MB	Audio support					HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack									
Graphics	Intel HD Graphics 520 in processor, supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 4096x2304 @60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160 @24Hz (HDMI)								Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight										
									UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch										
Chipset	Intel SoC (System on Chip) platform 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket								Security	Power-on password, hard disk password, supervisor password, security keyhole										
									Security chip	Trusted Platform Module, TCG 1.2-compliant										
Memory									ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures										
									vPro ( <i>optional</i> )	Intel vPro Technology										
Display	<i>Some</i> : 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some</i> : 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle <i>Some</i> : 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle								Fingerprint reader	<i>Optional</i> : Swipe style fingerprint reader on the keyboard bezel										
									Internal battery	<i>Optional</i> : Integrated Li-Ion or Li-Polymer 3-cell (23Wh)										
Multi-touch	None								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)										
									Max battery life <sup>10</sup> ( <i>MobileMark® 2014</i> )	<table><tr><td><i>Models</i></td><td><i>No + 3-cell</i></td><td><i>3-cell + 3-cell</i></td><td><i>3-cell + 6-cell 48Wh</i></td><td><i>3-cell + 6-cell 72Wh</i></td></tr><tr><td><i>Max battery life</i></td><td>6 hr</td><td>12 hr</td><td>18.5 hr</td><td>25 hr</td></tr></table>	<i>Models</i>	<i>No + 3-cell</i>	<i>3-cell + 3-cell</i>	<i>3-cell + 6-cell 48Wh</i>	<i>3-cell + 6-cell 72Wh</i>	<i>Max battery life</i>	6 hr	12 hr	18.5 hr	25 hr
<i>Models</i>	<i>No + 3-cell</i>	<i>3-cell + 3-cell</i>	<i>3-cell + 6-cell 48Wh</i>	<i>3-cell + 6-cell 72Wh</i>																
<i>Max battery life</i>	6 hr	12 hr	18.5 hr	25 hr																
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s (e.g. xxxG SSD) <i>Some</i> : SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™ <i>Some</i> : SSHD with 8GB NAND flash memory								AC adapter	45W AC adapter										
									Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Lenovo Setting • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)										
Optical	None								Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)										
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model</i> : Intel Ethernet Connection I219-LM (Jacksonville)								Mil-Spec test	MIL-STD-810G military certification										
WLAN <sup>4</sup>	<i>One of the following, configurable by model:</i> • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant										
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter																			
WWAN ( <i>optional</i> )	<i>One of the following, configurable by model (mutually exclusive with WiGig):</i> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)																			
SIM card ( <i>opt</i> )	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card																			
Dimensions <sup>3</sup>	<i>WxDxH</i> : 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm																			
Weight <sup>2</sup>	<table><tr><td><i>Models</i></td><td><i>No + 3-cell</i></td><td><i>3-cell + 3-cell</i></td><td><i>3 + 6-cell 48Wh</i></td><td><i>3-cell + 6-cell 72Wh</i></td></tr><tr><td><i>Weight</i></td><td>2.94 lb / 1.34 kg</td><td>3.18 lb / 1.44 kg</td><td>3.51 lb / 1.59 kg</td><td>3.58 lb / 1.62 kg</td></tr></table>								<i>Models</i>	<i>No + 3-cell</i>	<i>3-cell + 3-cell</i>	<i>3 + 6-cell 48Wh</i>	<i>3-cell + 6-cell 72Wh</i>	<i>Weight</i>	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg		
	<i>Models</i>	<i>No + 3-cell</i>	<i>3-cell + 3-cell</i>	<i>3 + 6-cell 48Wh</i>	<i>3-cell + 6-cell 72Wh</i>															
<i>Weight</i>	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg																
Case material	Glass-Fiber Reinforced Plastic																			

# ThinkPad X260 20F5 (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F5004S++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F5004T++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F5004U++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm														
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh									
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg									
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material Glass-Fiber Reinforced Plastic													
	i5-6300U		2.4 GHz	3.0 GHz	3MB																
	i7-6500U		2.5 GHz	3.1 GHz	4MB																
	i7-6600U		2.6 GHz	3.4 GHz	4MB																
Graphics	Intel HD Graphics 520 in processor					Smart card readerOptional: Smart card reader															
Chipset	Intel SoC (System on Chip) platform					Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)															
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket					PortsThree USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector															
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS None					WiGig dockNone Monitor cableOptional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable															
Multi-touch						Camera (optional)HD720p resolution, low light sensitive, fixed focus															
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory None					Audio supportHD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack															
Optical						Keyboard6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch															
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					SecurityPower-on password, hard disk password, supervisor password, security keyhole Security chipTrusted Platform Module, TCG 1.2-compliant vPro (optional)Intel vPro Technology Fingerprint readerOptional: Swipe style fingerprint reader on the keyboard bezel															
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth™Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Internal batteryOptional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) External batteryLi-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)															
Bluetooth™						Max battery life <sup>10</sup> <table><tr><td>Models</td><td>No + 3-cell</td><td>3-cell + 3-cell</td><td>3-cell + 6-cell 48Wh</td><td>3-cell + 6-cell 72Wh</td></tr><tr><td>(MobileMark® 2014)</td><td>6 hr</td><td>12 hr</td><td>18.5 hr</td><td>25 hr</td></tr></table>						Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	(MobileMark® 2014)	6 hr	12 hr	18.5 hr	25 hr
Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh																	
(MobileMark® 2014)	6 hr	12 hr	18.5 hr	25 hr																	
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					AC adapter45W AC adapter															
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					PreloadWin10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64															
						Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID															

See footnotes for more detailed information

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# ThinkPad X260 20F6 (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F6005B++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005C++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16
20F6005D++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-depot	No	01/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material Glass-Fiber Reinforced Plastic				
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Smart card readerOptional: Smart card reader				
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)				
	i7-6600U		2.6 GHz	3.4 GHz	4MB			PortsThree USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector				
					WiGig dockNone							
					Monitor cableOptional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable							
Graphics	Intel HD Graphics 520 in processor					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Chipset	Intel SoC (System on Chip) platform					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Multi-touch	None					Security	Power-on password, hard disk password, supervisor password, security keyhole					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory					Security chip	Trusted Platform Module, TCG 1.2-compliant					
Optical	None					vPro (optional)	Intel vPro Technology					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr	
						AC adapter	45W AC adapter					
						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64:	Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV3-1) © Lenovo

# ThinkPad X260 20F6 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F60082++	i5-6200U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F60083++	i5-6200U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F60084++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F60085++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	512G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F60086++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F60087++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F6007T++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F6007U++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F6007V++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F6007W++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F6007X++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F6007Y++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F60080++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	240G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16
20F60081++	i5-6200U	No	HD 520	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-depot	No	04/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg
	i5-6200U		2.3 GHz	2.8 GHz	3MB							
	i5-6300U		2.4 GHz	3.0 GHz	3MB							
	i7-6500U		2.5 GHz	3.1 GHz	4MB							
	i7-6600U		2.6 GHz	3.4 GHz	4MB							
Graphics	Intel HD Graphics 520 in processor					Case material	Glass-Fiber Reinforced Plastic					
Chipset	Intel SoC (System on Chip) platform					Smart card reader	Optional: Smart card reader					
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS None					Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector					
Multi-touch	None					WiGig dock	None					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory None					Monitor cable	Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable					
Optical	None					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Security	Power-on password, hard disk password, supervisor password, security keyhole					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					Security chip	Trusted Platform Module, TCG 1.2-compliant					
						vPro (optional)	Intel vPro Technology					
						Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
						Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
						(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr	
						AC adapter	45W AC adapter					
						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64:	Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV3-8) © Lenovo

# ThinkPad X260 20F5 (TopSeller) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F5004W++	i7-6600U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F5004X++	i5-6300U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F5004Y++	i5-6300U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F50050++	i5-6300U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F50051++	i7-6600U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	512G SSD	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F50052++	i7-6600U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	512G SSD	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F50053++	i7-6600U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F50054++	i7-6600U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F50075++	i7-6600U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F50076++	i7-6600U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	512G SSD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F50077++	i5-6300U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material Glass-Fiber Reinforced Plastic				
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Smart card readerOptional: Smart card reader				
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)				
	i7-6600U		2.6 GHz	3.4 GHz	4MB			PortsThree USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector				
					WiGig dockNone							
					Monitor cableOptional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable							
Graphics	Intel HD Graphics 520 in processor					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Chipset	Intel SoC (System on Chip) platform					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket											
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS None					Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Multi-touch						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory None					Security chip	Trusted Platform Module, TCG 1.2-compliant					
Optical						vPro (optional)	Intel vPro Technology					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth™ Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
Bluetooth™						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr	
						AC adapter	45W AC adapter					
						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64:	Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

# ThinkPad X260 20F6 (TopSeller) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F60020++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F60022++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F60024++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F60025++	i5-6200U	No	HD 520	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F60026++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F60027++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F60028++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	ME906S	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F6003R++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F6003T++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F6003U++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F6003W++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F6003Y++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F60040++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F60041++	i5-6200U	No	HD 520	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F6006W++	i7-6500U	No	HD 520	16GBx1	12.5" FHD IPS	No	480G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F6006X++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F6006Y++	i5-6200U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F60070++	i5-6200U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F60071++	i5-6200U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F60072++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	512G SSD	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F60073++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	512G SSD	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F60074++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh	
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg	
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material	Glass-Fiber Reinforced Plastic				
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Smart card reader	Optional: Smart card reader				
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
i7-6600U	2.6 GHz		3.4 GHz	4MB	Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector							
Graphics	Intel HD Graphics 520 in processor					WiGig dock	None						
Chipset	Intel SoC (System on Chip) platform					Monitor cable	Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable						
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket					Camera (optional)	HD720p resolution, low light sensitive, fixed focus						
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS None					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						
Multi-touch	None					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory None					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch						
Optical	None					Security	Power-on password, hard disk password, supervisor password, security keyhole						
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Security chip	Trusted Platform Module, TCG 1.2-compliant						
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					vPro (optional)	Intel vPro Technology						
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel						
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)						
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)						
						Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh		
						(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr		
						AC adapter	45W AC adapter						
						Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64						
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID						

See footnotes for more detailed information

(G-WV3-2) © Lenovo

# ThinkPad X260 20F6 (TopSeller) - Onsite - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F60075++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F6007Q++	i5-6200U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F6007R++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	512G SSD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F6007S++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F60021++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	EM7455	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F60023++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F6003S++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F6003V++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F6003X++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material Glass-Fiber Reinforced Plastic				
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Smart card readerOptional: Smart card reader				
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Media reader4-in-1 reader (MMC, SD, SDHC, SDXC)				
	i7-6600U		2.6 GHz	3.4 GHz	4MB			PortsThree USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector				
					WiGig dockNone							
					Monitor cableOptional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable							
Graphics	Intel HD Graphics 520 in processor					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Chipset	Intel SoC (System on Chip) platform					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket											
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS None					Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Multi-touch						Security	Power-on password, hard disk password, supervisor password, security keyhole					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory None					Security chip	Trusted Platform Module, TCG 1.2-compliant					
Optical						vPro (optional)	Intel vPro Technology					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
Bluetooth™						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr	
						AC adapter	45W AC adapter					
						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64:	Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV3-5) © Lenovo

# ThinkPad X260 20F5 (TopSeller) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F5007V++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg
	i5-6200U		2.3 GHz	2.8 GHz	3MB							
	i5-6300U		2.4 GHz	3.0 GHz	3MB							
	i7-6500U		2.5 GHz	3.1 GHz	4MB							
	i7-6600U		2.6 GHz	3.4 GHz	4MB							
						Case material	Glass-Fiber Reinforced Plastic					
Graphics	Intel HD Graphics 520 in processor					Smart card reader	Optional: Smart card reader					
Chipset	Intel SoC (System on Chip) platform					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket					Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS					WiGig dock	None					
Multi-touch	None					Monitor cable	Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Optical	None					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security	Power-on password, hard disk password, supervisor password, security keyhole					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Security chip	Trusted Platform Module, TCG 1.2-compliant					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					vPro (optional)	Intel vPro Technology					
						Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
						Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
						(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr	
						AC adapter	45W AC adapter					
						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64:	Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV3-7) © Lenovo

# ThinkPad X260 20F6 (TopSeller) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F60091++	i5-6200U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+6(48wh)	45W	Win10 P64	3-onsite	No	04/16
20F6009R++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F600A1++	i5-6200U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F600A2++	i5-6200U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F600A3++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F600A4++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	512G SSD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F600A5++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F600A6++	i7-6500U	No	HD 520	8GBx1	12.5" FHD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F6009Q++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F6009S++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	180G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F6009T++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F6009U++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F6009V++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F6009W++	i5-6200U	No	HD 520	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F6009X++	i7-6500U	No	HD 520	8GBx1	12.5" HD IPS	No	512G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F6009Y++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	Lenovo	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F600A0++	i5-6200U	No	HD 520	8GBx1	12.5" HD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	07/16
20F600A7++	i5-6300U	vPro	HD 520	8GBx1	12.5" FHD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	09/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material Glass-Fiber Reinforced Plastic				
	i5-6300U		2.4 GHz	3.0 GHz	3MB							
	i7-6500U		2.5 GHz	3.1 GHz	4MB							
i7-6600U	2.6 GHz		3.4 GHz	4MB								
Graphics	Intel HD Graphics 520 in processor					Smart card reader	Optional: Smart card reader					
Chipset	Intel SoC (System on Chip) platform					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket					Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS					WiGig dock	None					
Multi-touch	None					Monitor cable	Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Optical	None					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security	Power-on password, hard disk password, supervisor password, security keyhole					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Security chip	Trusted Platform Module, TCG 1.2-compliant					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					vPro (optional)	Intel vPro Technology					
						Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
						Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
						(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr	
						AC adapter	45W AC adapter					
						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64:	Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV3-9) © Lenovo

# ThinkPad X260 20F5 (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F5000H++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	ME906S	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5000J++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5000K++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5000L++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5000M++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5000N++	i5-6300U	vPro	HD 520	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F50010++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	None	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F50011++	i5-6300U	vPro	HD 520	4GBx1	12.5" HD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	None	Finger	No+6(48wh)	45W	Win10 DG Win7	3-onsite	No	01/16
20F5003D++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5003E++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5003G++	i5-6300U	vPro	HD 520	4GBx1	12.5" HD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	No+6(48wh)	45W	Win10 DG Win7	3-onsite	No	01/16
20F5003H++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5003J++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5003K++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5003M++	i5-6300U	vPro	HD 520	4GBx1	12.5" HD IPS	No	500G 5400 SSHD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5003N++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	ME906S	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	01/16
20F5004V++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	192G SSD	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	02/16
20F5003F++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F5003L++	i7-6600U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16
20F5003P++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 DG Win7	3-onsite	No	03/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm						
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh	
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg	
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material	Glass-Fiber Reinforced Plastic				
	i5-6300U		2.4 GHz	3.0 GHz	3MB			Smart card reader	Optional: Smart card reader				
	i7-6500U		2.5 GHz	3.1 GHz	4MB			Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
i7-6600U	2.6 GHz		3.4 GHz	4MB	Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector							
Graphics	Intel HD Graphics 520 in processor					WiGig dock	None						
Chipset	Intel SoC (System on Chip) platform					Monitor cable	Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable						
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket					Camera (optional)	HD720p resolution, low light sensitive, fixed focus						
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack						
Multi-touch	None					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight						
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch						
Optical	None					Security	Power-on password, hard disk password, supervisor password, security keyhole						
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Security chip	Trusted Platform Module, TCG 1.2-compliant						
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					vPro (optional)	Intel vPro Technology						
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel						
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)						
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)						
						Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh		
						(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr		
						AC adapter	45W AC adapter						
						Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64						
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID						

See footnotes for more detailed information

(G-WV3-4) © Lenovo

# ThinkPad X260 20F5 (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20F5007H++	i7-6600U	vPro	HD 520	16GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	EM7455	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	03/16
20F5007J++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	None	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	03/16
20F5007K++	i3-6100U	No	HD 520	8GBx1	12.5" HD	No	128G SSD	8260 ac+BT	Upg	None	None	720p	None	None	3+3	45W	Win10 P64	3-onsite	No	03/16
20F5007T++	i7-6600U	vPro	HD 520	16GBx1	12.5" HD IPS	No	512G SSD	8260 ac+BT	EM7455	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16
20F5007U++	i5-6300U	vPro	HD 520	8GBx1	12.5" HD IPS	No	256G SSD Opal2	8260 ac+BT	Upg	None	Smart	720p	Backlit	Finger	3+3	45W	Win10 P64	3-onsite	No	04/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor					Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types	Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB		DDR4-2133	Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg
	i5-6200U		2.3 GHz	2.8 GHz	3MB			Case material Glass-Fiber Reinforced Plastic				
	i5-6300U		2.4 GHz	3.0 GHz	3MB							
	i7-6500U		2.5 GHz	3.1 GHz	4MB							
i7-6600U	2.6 GHz		3.4 GHz	4MB								
Graphics	Intel HD Graphics 520 in processor					Smart card reader	Optional: Smart card reader					
Chipset	Intel SoC (System on Chip) platform					Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)					
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket					Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector					
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS					WiGig dock	None					
Multi-touch	None					Monitor cable	Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable					
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory					Camera (optional)	HD720p resolution, low light sensitive, fixed focus					
Optical	None					Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack					
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)					Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card					UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch					
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Security	Power-on password, hard disk password, supervisor password, security keyhole					
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)					Security chip	Trusted Platform Module, TCG 1.2-compliant					
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card					vPro (optional)	Intel vPro Technology					
						Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel					
						Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)					
						External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)					
						Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	
						(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr	
						AC adapter	45W AC adapter					
						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64				
							Win10 P64:	Windows 10 Pro 64				
						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID					

See footnotes for more detailed information

(G-WV3-7) © Lenovo

# ThinkPad X260 20F6 (Onsite) - Windows 10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Smart card reader	Camera	Backlit keyboard	Finger-print reader	Battery cells (int+ext)	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20F6008Y++	i3-6100U	No	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	None	None	Smart	720p	None	None	3+3	45W	Win10 P64	3-onsite	No	04/16
20F60090++	i3-6100U	No	HD 520	8GBx1	12.5" HD IPS	No	128G SSD	8260 ac+BT	Upg	None	Smart	720p	None	None	3+3	45W	Win10 P64	3-onsite	No	04/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup>	WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm				
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell 48Wh	3-cell + 6-cell 72Wh
	i3-6100U	2	2.3 GHz	-	3MB	DDR4-2133		Weight	2.94 lb / 1.34 kg	3.18 lb / 1.44 kg	3.51 lb / 1.59 kg	3.58 lb / 1.62 kg
	i5-6200U		2.3 GHz	2.8 GHz	3MB							
	i5-6300U		2.4 GHz	3.0 GHz	3MB							
	i7-6500U		2.5 GHz	3.1 GHz	4MB							
	i7-6600U		2.6 GHz	3.4 GHz	4MB							
						Case material	Glass-Fiber Reinforced Plastic					
Graphics	Intel HD Graphics 520 in processor						Smart card reader	Optional: Smart card reader				
Chipset	Intel SoC (System on Chip) platform						Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)				
Memory	16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket						Ports	Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector				
Display	Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS						WiGig dock	None				
Multi-touch	None						Monitor cable	Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable				
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory						Camera (optional)	HD720p resolution, low light sensitive, fixed focus				
Optical	None						Audio support	HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack				
Ethernet	Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model)						Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight				
WLAN <sup>4</sup>	BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card						UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch				
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Security	Power-on password, hard disk password, supervisor password, security keyhole				
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						Security chip	Trusted Platform Module, TCG 1.2-compliant				
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						vPro (optional)	Intel vPro Technology				
							Fingerprint reader	Optional: Swipe style fingerprint reader on the keyboard bezel				
							Internal battery	Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh)				
							External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)				
							Max battery life <sup>10</sup>	Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh
							(MobileMark® 2014)	Max battery life	6 hr	12 hr	18.5 hr	25 hr
							AC adapter	45W AC adapter				
							Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64			
								Win10 P64:	Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				

See footnotes for more detailed information

(G-WV3-10) © Lenovo



Lenovo® ThinkPad X1 Carbon (4<sup>th</sup> Gen)



Lenovo ThinkPad X1 Carbon (4<sup>th</sup> Gen)



Lenovo ThinkPad X1 Carbon (4<sup>th</sup> Gen)



Lenovo ThinkPad X1 Carbon (4<sup>th</sup> Gen)



Lenovo ThinkPad X1 Carbon (4<sup>th</sup> Gen)

**ThinkPad X1 Carbon (4<sup>th</sup> Gen) Platform Specifications**
Product Specifications Reference (PSREF)

**ThinkPad X1 Carbon (4<sup>th</sup> Gen) Platform Specifications**
Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Media reader Ports	MicroSD card reader, supports UHS-II microSD card															
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	WiGig dock (opt)	Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector															
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD graphics 520	Adapter (optional)	WiGig dock, mutually exclusive with WWAN															
	i5-6300U			2.4 GHz	3.0 GHz	3MB			HDMI-VGA: Lenovo HDMI to VGA Monitor Cable																
	i7-6500U			2.5 GHz	3.1 GHz	4MB			mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable																
	i7-6600U			2.6 GHz	3.4 GHz	4MB			RJ45: ThinkPad OneLink+ to RJ45 adapter																
									VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter																
Graphics	Intel HD Graphics 520 in processor, external digital monitor support via Mini DisplayPort or HDMI™; supports three independent displays; Max resolution: 3840x2160 (Mini DisplayPort)@60Hz; 4096x2304 (HDMI)@24Hz								Camera	HD720p resolution, low light sensitive, fixed focus															
									Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack															
Chipset	Intel SoC (System on Chip) platform								Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight															
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets								UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch															
Display	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle <i>Some:</i> 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle								Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch															
Multi-touch	None								Security chip	Trusted Platform Module, TCG 1.2-compliant															
Hinge	Normal hinge, 180 degree								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures															
Storage	<i>Some:</i> M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)								vPro (optional)	Intel vPro Technology															
Optical	None								Fingerprint reader	Touch style fingerprint reader on the palm rest															
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter (by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))								Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery															
WLAN <sup>4</sup>	<i>One of the following, configurable by model (WiGig is mutually exclusive with WWAN):</i> <ul style="list-style-type: none"><li>• 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card</li><li>• WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card</li></ul>								Max battery life <sup>10</sup>	MobileMark® 2014: 11 hr															
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter															
WWAN (optional)	<i>One of the following, configurable by model (mutually exclusive with WiGig):</i> <ul style="list-style-type: none"><li>• Wireless WAN upgradable</li><li>• Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card</li><li>• Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)</li></ul>								RapidCharge	<table><tr><td>AC adapter</td><td>45W</td><td>65W Slim</td><td>65W</td></tr><tr><td>Charge to 80%</td><td>Not support</td><td>1.0 hr</td><td>1.0 hr</td></tr><tr><td>Charge to 100%</td><td>Not support</td><td>2.5 hr</td><td>2.5 hr</td></tr></table>				AC adapter	45W	65W Slim	65W	Charge to 80%	Not support	1.0 hr	1.0 hr	Charge to 100%	Not support	2.5 hr	2.5 hr
AC adapter	45W	65W Slim	65W																						
Charge to 80%	Not support	1.0 hr	1.0 hr																						
Charge to 100%	Not support	2.5 hr	2.5 hr																						
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		Windows 10 Pro 64													
Dimensions <sup>3</sup>	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm									• Lenovo Solution Center		• Lenovo Companion													
Weight <sup>2</sup>	from 2.579 lb / 1.17 kg									• Lenovo Solution Center		• Lenovo Setting													
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium									• ThinkVantage Product Recovery		• Microsoft Office preloaded; purchase a product key to activate													
										• Rescue and Recovery™		• McAfee® LiveSafe™ (30-day trial)													
										• ThinkVantage System Update															
										• Adobe® Reader®															
										• Microsoft® Office preloaded; purchase a product key to activate															
										• McAfee® LiveSafe™ (30-day trial)															
									Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>• 1-year depot repair service</li><li>• 3-year/1-yr battery depot repair service</li><li>• 3-year/1-yr battery limited onsite service<sup>24</sup></li><li>• 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)</li></ul>															
									Mil-Spec test	MIL-STD-810G military certification															
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant															

# ThinkPad X1 Carbon (4<sup>th</sup> Gen) 20FB (TS) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FB002U++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB002V++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003T++	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003U++	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003X++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003Y++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB0040++	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003P++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003Q++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003R++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003S++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003V++	i5-6200U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB003W++	i5-6200U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB0041++	i7-6600U	vPro	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB0042++	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB0043++	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD PCIe NVMe	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FB002T++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	18260 ac+BT	None	None	RJ45	WiGig	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(4th Gen\) Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup>	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight <sup>2</sup>	from 2.579 lb / 1.17 kg			
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium			
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Media reader	MicroSD card reader, supports UHS-II microSD card			
	i7-6500U		2.5 GHz	3.1 GHz	4MB		Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector			
i7-6600U	2.6 GHz		3.4 GHz	4MB	WiGig dock (opt)		WiGig dock, mutually exclusive with WWAN				
Graphics	Intel HD Graphics 520 in processor						Adapter (optional)	HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter			
Chipset	Intel SoC (System on Chip) platform						Camera	HD720p resolution, low light sensitive, fixed focus			
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets										
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS										
Multi-touch	None										
Hinge	Normal hinge, 180 degree						Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch			
Optical	None						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter						vPro (optional)	Intel vPro Technology			
WLAN <sup>4</sup>	8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						Fingerprint reader	Touch style fingerprint reader on the palm rest			
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery			
WWAN (optional)	Upg: Wireless WAN upgradable						Max battery life <sup>10</sup>	MobileMark® 2014: 11 hr			
	EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
	ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)						RapidCharge	AC adapter	45W	65W Slim	65W
	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card							Charge to 80%	Not support	1.0 hr	1.0 hr
SIM card (opt)								Charge to 100%	Not support	2.5 hr	2.5 hr
							Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight						Win10 P64:	Windows 10 Pro 64			
UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-RV1-1) © Lenovo

# ThinkPad X1 Carbon (4<sup>th</sup> Gen) 20FB (TS) - Onsite (Win10)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FB002W++	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	02/16
20FB002X++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	02/16
20FB0066++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FB0067++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FB0068++	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FB0069++	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FB006A++	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD PCIe NVMe	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FB006B++	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD PCIe NVMe	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FB006C++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FB006D++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FB006P++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	05/16
20FB006Q++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	192G SSD	8260 ac+BT	Upg	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	05/16
20FB006K++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	05/16
20FB006L++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	05/16
20FB006M++	i5-6200U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	05/16
20FB006N++	i5-6200U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	05/16
20FB006H++	i5-6200U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	18260 ac+BT	None	None	None	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	05/16
20FB006J++	i7-6500U	No	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	18260 ac+BT	None	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	05/16
20FB0075++	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	EM7455	Lenovo	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	06/16
20FB007J++	i5-6200U	No	HD 520	4GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	07/16
20FB007K++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	07/16
20FB007L++	i7-6500U	No	HD 520	8GBx1	14.0" FHD IPS	180G SSD Opal2	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	07/16

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(4th Gen\) Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup> Case material	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm from 2.579 lb / 1.17 kg Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types					
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866					
	i5-6300U		2.4 GHz	3.0 GHz	3MB						
	i7-6500U		2.5 GHz	3.1 GHz	4MB						
	i7-6600U		2.6 GHz	3.4 GHz	4MB						
Graphics	Intel HD Graphics 520 in processor										
Chipset	Intel SoC (System on Chip) platform						Media reader Ports WiGig dock (opt) Adapter (optional)	MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector WiGig dock, mutually exclusive with WWAN HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter			
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets										
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS										
Multi-touch	None										
Hinge	Normal hinge, 180 degree										
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)										
Optical	None						Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter										
WLAN <sup>4</sup>	8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card										
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter										
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)										
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card										
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight						Battery Max battery life <sup>10</sup> AC adapter RapidCharge	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery MobileMark® 2014: 11 hr 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch										
							Preload	Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64			
							Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-RV1-2) © Lenovo

# ThinkPad X1 Carbon (4<sup>th</sup> Gen) 20FC (Onsite)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit key-board	Finger-print reader	Bat-tery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20FC003A++	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FC003B++	i7-6600U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD Opal2	8260 ac+BT	Upg	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FC0038++	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD	8260 ac+BT	ME906S	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16
20FC0039++	i7-6600U	vPro	HD 520	8GBx1	14.0" WQHD IPS	256G SSD Opal2	8260 ac+BT	ME906S	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 DG Win7	3-onsite	No	02/16

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(4th Gen\) Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup>	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm			
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Weight <sup>2</sup>	from 2.579 lb / 1.17 kg			
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium			
	i5-6300U		2.4 GHz	3.0 GHz	3MB		Media reader Ports WiGig dock (opt) Adapter (optional)	MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector WiGig dock, mutually exclusive with WWAN HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter			
	i7-6500U		2.5 GHz	3.1 GHz	4MB						
	i7-6600U		2.6 GHz	3.4 GHz	4MB						
Graphics	Intel HD Graphics 520 in processor						Camera	HD720p resolution, low light sensitive, fixed focus			
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack			
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch			
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						Security chip	Trusted Platform Module, TCG 1.2-compliant			
Multi-touch	None						vPro (optional)	Intel vPro Technology			
Hinge	Normal hinge, 180 degree						Fingerprint reader	Touch style fingerprint reader on the palm rest			
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)						Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery			
Optical	None						Max battery life <sup>10</sup>	MobileMark® 2014: 11 hr			
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter			
WLAN <sup>4</sup>	8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card						RapidCharge	AC adapter	45W	65W Slim	65W
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter							Charge to 80%	Not support	1.0 hr	1.0 hr
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)							Charge to 100%	Not support	2.5 hr	2.5 hr
	ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)										
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card						Preload	Win10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64		
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight							Win10 P64:	Windows 10 Pro 64		
UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID			

See footnotes for more detailed information

(G-RV1-3) © Lenovo

# ThinkPad X1 Carbon (4<sup>th</sup> Gen) 20FC (Onsite) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Storage	WLAN & Bluetooth	WWAN	SIM card	Adapter	Dock	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20FC0041++	i5-6300U	vPro	HD 520	8GBx1	14.0" FHD IPS	256G SSD PCIe NVMe Opal2	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FC0042++	i5-6200U	No	HD 520	8GBx1	14.0" FHD IPS	128G SSD	8260 ac+BT	Upd	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16
20FC0040++	i7-6600U	vPro	HD 520	16GBx1	14.0" WQHD IPS	512G SSD PCIe NVMe	8260 ac+BT	EM7455	None	RJ45	None	720p	Backlit	Finger	4	65W	Win10 P64	3-onsite	No	04/16

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(4th Gen\) Platform Specifications](#) sheet

Processor	6th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> Weight <sup>2</sup> Case material	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm from 2.579 lb / 1.17 kg Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium															
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types																	
	i5-6200U	2	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866																	
	i5-6300U		2.4 GHz	3.0 GHz	3MB																		
	i7-6500U		2.5 GHz	3.1 GHz	4MB																		
	i7-6600U		2.6 GHz	3.4 GHz	4MB																		
Graphics	Intel HD Graphics 520 in processor																						
Chipset	Intel SoC (System on Chip) platform						Media reader Ports WiGig dock (opt) Adapter (optional)	MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector WiGig dock, mutually exclusive with WWAN HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter															
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets																						
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS																						
Multi-touch	None																						
Hinge	Normal hinge, 180 degree																						
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)																						
Optical	None						Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack															
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter																						
WLAN <sup>4</sup>	8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card																						
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter																						
WWAN (optional)	Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)																						
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card																						
Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch						Battery Max battery life <sup>10</sup> AC adapter RapidCharge	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery MobileMark® 2014: 11 hr 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter <table><tr><td>AC adapter</td><td>45W</td><td>65W Slim</td><td>65W</td></tr><tr><td>Charge to 80%</td><td>Not support</td><td>1.0 hr</td><td>1.0 hr</td></tr><tr><td>Charge to 100%</td><td>Not support</td><td>2.5 hr</td><td>2.5 hr</td></tr></table>				AC adapter	45W	65W Slim	65W	Charge to 80%	Not support	1.0 hr	1.0 hr	Charge to 100%	Not support	2.5 hr	2.5 hr
AC adapter	45W	65W Slim	65W																				
Charge to 80%	Not support	1.0 hr	1.0 hr																				
Charge to 100%	Not support	2.5 hr	2.5 hr																				
Preload												Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64											
												Win10 P64: Windows 10 Pro 64											
							Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID																

See footnotes for more detailed information

(G-RV1-4) © Lenovo



Lenovo® ThinkPad E460



Lenovo ThinkPad E460



Lenovo ThinkPad E460

# ThinkPad E460 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Mil-Spec test Environment	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack None <i>Some:</i> HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2 None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None Li-Ion 6-cell (47Wh) 6-cell (47Wh): up to 9.0 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) <i>Some:</i> Windows 10 Pro 64 <i>Some:</i> Windows 10 Home 64 • Lenovo Solution Center • Lenovo REACHit • Lenovo SHAREit • Lenovo Companion • Lenovo Settings • ThinkVantage System Update • Microsoft Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial)
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 520		
	i5-6200U			2.3 GHz	2.8 GHz	3MB				
i7-6500U	2.5 GHz			3.1 GHz	4MB					
Graphics	Intel HD Graphics in processor only, or AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or AMD Radeon R7 M360 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent displays; Max resolution: 1920x1080 (HDMI) @60Hz									
Chipset	Intel SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets									
Memory										
Display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio									
Multi-touch	None									
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory									
Optical	None									
M.2 SSD	None									
Ethernet	Gigabit Ethernet Connection									
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									
WLAN	<i>One of the following, configurable by model:</i> • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card									
WWAN	None									
SIM card	None									
Dimensions	<i>Aluminum (WxDxH):</i> 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm <i>PC/ABS (WxDxH):</i> 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm									
Weight	From 4.23 lb (1.92kg)									
Case color	Graphite black									
Case material	<i>Aluminum:</i> Aluminum display cover <i>PC/ABS:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover									

# ThinkPad E460 20ET (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Case material	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20ET003E++	i3-6100U	No	HD 520	4GBx1	14.0" HD	None	500GB 7200	None	8260 ac+BT	None	None	Aluminum	720p	Keyboard	TPM1.2	No	6 (47wh)	45W	No	1-depot	No	11/15
20ET003F++	i5-6200U	No	HD 520	8GBx1	14.0" FHD	None	192GB SSD	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	11/15
20ET003H++	i5-6200U	No	HD 520	8GBx1	14.0" FHD	None	192GB SSD	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	11/15
20ET003L++	i3-6100U	No	HD 520	4GBx1	14.0" HD	None	500GB 7200	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	11/15
20ET003M++	i3-6100U	No	HD 520	4GBx1	14.0" HD	None	500GB 7200	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM1.2	No	6 (47wh)	45W	No	1-depot	No	11/15
20ET0049++	i5-6200U	No	HD 520	8GBx1	14.0" FHD	None	192GB SSD	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	01/16
20ET0011++	i3-6100U	No	HD 520	4GBx1	14.0" HD	None	500GB 7200	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	05/16
20ET004L++	i5-6200U	No	HD 520	8GBx1	14.0" FHD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	06/16
20ET004S++	i5-6200U	No	HD 520	8GBx1	14.0" HD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM	Finger	6 (47wh)	45W	Win10 P64	1-depot	No	08/16
20ET004Y++	i5-6200U	No	HD 520	8GBx1	14.0" FHD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM1.2	Finger	6 (47wh)	45W	Win10 DG Win7	1-depot	No	10/16

• For detailed platform specifications, please see [ThinkPad E460 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i3 / i5 Processor								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack None
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 520		
	i5-6200U			2.3 GHz	2.8 GHz	3MB				
Graphics	Intel HD Graphics in processor only, digital monitor support via HDMI™ (supporting HDCP to output protected content)								Camera	Some: HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
Chipset	Intel SoC (System on Chip) platform								Audio support	
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Keyboard	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None
Display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio								UltraNav™	
	Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio								ThinkLight™	
Multi-touch	None								Security	Power-on password, hard disk password, supervisor password, security keyhole TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ Some: SSHD with 8GB NAND flash memory								Security chip	
Ethernet	Gigabit Ethernet Connection								vPro	None Some: Fingerprint reader on the keyboard bezel, swipe sensor None
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter								Fingerprint reader	
WLAN	One of the following, configurable by model: • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card								NFC	
WWAN	None								Battery type	Li-Ion 6-cell (47Wh) 6-cell (47Wh): up to 9.0 hr Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics)
SIM card	None								Battery life	
Dimensions	Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm								AC adapter	
Weight	From 4.23 lb (1.92kg)								Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Case color	Graphite black								Limited warranty	
Case material	Aluminum: Aluminum display cover PC/ABS: PC/ABS plastic display cover								Mil-Spec test	None
									Environment	

# ThinkPad E460 20ET (Discrete) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Case material	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20ET003A++	i5-6200U	No	R7 M360	4GBx1	14.0" FHD	None	500GB 7200	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20ET003B++	i5-6200U	No	R7 M360	8GBx1	14.0" HD	None	192GB SSD	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20ET003C++	i3-6100U	No	R7 M360	4GBx1	14.0" HD	None	500GB 7200	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20ET003D++	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	1TB 5400	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20ET000C++	i5-6200U	No	R7 M360	4GBx1	14.0" HD	None	500GB 5400	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	No	1-depot	No	11/15
20ET003G++	i7-6500U	No	R7 M360	8GBx2	14.0" FHD	None	1TB 5400	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20ET003J++	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	192GB SSD	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20ET003K++	i5-6200U	No	R7 M360	4GBx2	14.0" FHD	None	192GB SSD	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	11/15
20ET0047++	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	192GB SSD	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	01/16
20ET0048++	i5-6200U	No	R7 M360	8GBx1	14.0" FHD	None	192GB SSD	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	01/16
20ET004A++	i5-6200U	No	R7 M360	4GBx1	14.0" FHD	None	500GB 7200	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 P64	1-depot	No	01/16
20ET004B++	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	1TB 5400	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	01/16
20ET004J++	i3-6100U	No	R5 M330	4GBx1	14.0" FHD	None	500GB 7200	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	05/16
20ET004M++	i5-6200U	No	R7 M360	8GBx1	14.0" HD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	06/16
20ET004N++	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	06/16
20ET004P++	i5-6200U	No	R7 M360	8GBx1	14.0" FHD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	06/16
20ET004U++	i7-6500U	No	R7 M360	8GBx1	14.0" HD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 P64	1-depot	No	08/16
20ET004T++	i5-6200U	No	R7 M360	4GBx1	14.0" HD	None	500GB 7200	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 P64	1-depot	No	08/16

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Mil-Spec test Environment	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack None <i>Some:</i> HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2 None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None Li-Ion 6-cell (47Wh) 6-cell (47Wh): up to 9.0 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <b>1-year</b> - depot repair service / service upgrades available None EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 520		
	i5-6200U			2.3 GHz	2.8 GHz	3MB				
i7-6500U	2.5 GHz			3.1 GHz	4MB					
Graphics	AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or AMD Radeon R7 M360 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content)									
Chipset Memory	Intel SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets									
Display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio									
Multi-touch	None									
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory									
Ethernet Bluetooth™	Gigabit Ethernet Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									
WLAN	<i>One of the following, configurable by model:</i> • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card									
WWAN	None									
SIM card	None									
Dimensions	<i>Aluminum (WxDxH):</i> 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm <i>PC/ABS (WxDxH):</i> 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm									
Weight	From 4.23 lb (1.92kg)									
Case color	Graphite black									
Case material	<i>Aluminum:</i> Aluminum display cover <i>PC/ABS:</i> PC/ABS plastic display cover									

# ThinkPad E460 20ET (Discrete) - TopSeller - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Case material	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20ET004X++	i7-6500U	No	R7 M360	8GBx1	14.0" FHD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 DG Win7	1-depot	No	10/16
20ET0050++	i5-6200U	No	R7 M360	8GBx1	14.0" FHD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 DG Win7	1-depot	No	10/16
20ET0051++	i5-6200U	No	R7 M360	8GBx1	14.0" HD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	PC/ABS	720p	Keyboard	TPM2.0	Finger	6 (47wh)	65W	Win10 DG Win7	1-depot	No	10/16
20ET0052++	i5-6200U	No	R7 M360	8GBx1	14.0" FHD	None	256GB SSD Opal2	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 DG Win7	1-depot	No	10/16
20ET0053++	i5-6200U	No	R7 M360	4GBx1	14.0" FHD	None	500GB 7200	None	3165 ac+BT	None	None	Aluminum	720p	Keyboard	TPM2.0	No	6 (47wh)	65W	Win10 DG Win7	1-depot	No	10/16

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart Card Reader	None
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	ExpressCard	None
	i3-6100U	2	4	2.3 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 520	Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
	i5-6200U			2.3 GHz	2.8 GHz	3MB			Ports	Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack
i7-6500U	2.5 GHz			3.1 GHz	4MB	Monitor cable			None	
Graphics	AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or AMD Radeon R7 M360 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content)								Camera	<i>Some:</i> HD720p resolution, fixed focus
Chipset	Intel SoC (System on Chip) platform								Audio support	HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Keyboard	6-row, spill-resistant, multimedia Fn keys
Display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad
Multi-touch	None								ThinkLight™	None
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory								Security chip	Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2
Ethernet	Gigabit Ethernet Connection								vPro	None
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter								Fingerprint reader	<i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor
WLAN	<i>One of the following, configurable by model:</i> • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card								NFC	None
WWAN	None								Battery type	Li-Ion 6-cell (47Wh)
SIM card	None								Battery life	6-cell (47Wh): up to 9.0 hr
Dimensions	<i>Aluminum (WxDxH):</i> 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm <i>PC/ABS (WxDxH):</i> 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm								AC adapter	<i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics)
Weight	From 4.23 lb (1.92kg)								Preload	<i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Case color	Graphite black								Limited warranty	<b>1-year</b> - depot repair service / service upgrades available
Case material	<i>Aluminum:</i> Aluminum display cover <i>PC/ABS:</i> PC/ABS plastic display cover								Mil-Spec test	None
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant



Lenovo® ThinkPad E550



Lenovo ThinkPad E550



Lenovo ThinkPad E550

# ThinkPad E550 Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor							
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
	i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400
	i3-5005U	2	4	2.0 GHz	-	3MB		HD5500
	i3-5015U	2	4	2.1 GHz	-	3MB		
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500
	i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500
Graphics	Intel HD Graphics in processor only, or AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display Max resolution: 1920x1080 (HDMI) @60Hz							
Chipset	Intel SoC (System on Chip) platform							
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets							
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio							
Multi-touch	Some: supports 10-finger gesture							
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™							
Optical	Some: Hybrid drive with 8GB NAND flash memory Some: DVD burner, 9.0mm high, removable Some: Blank Bezel							
M.2 SSD	None							
Ethernet	Intel WGI218V Gigabit Ethernet Connection							
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
WLAN	One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card							
WWAN	None							
SIM card	None							
Smart Card Read	None							
ExpressCard	None							
Dimensions	None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm							
Weight	6-cell None Touch: from 5.21 lb (2.35kg)							
Case color	Graphite Black							
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic							
Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector							
Monitor cable	None							
Camera	Some: HD720p resolution, fixed focus Some: 3D camera, Intel RealSense™ 3D Camera with MIC							
Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack							
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad							
UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad							
ThinkLight™	None							
Security	Power-on password, hard disk password, supervisor password, security keyhole							
Security chip	Some: Trusted Platform Module, TCG 1.2-compliant							
vPro	None							
Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor							
NFC	None							
Battery type	Li-Ion 6-cell (48Wh)							
Battery life	6-cell (48Wh): up to 9.0 hr							
AC adapter	Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics)							
Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions)  Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™							
	Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • ThinkVantage System Update • Evernote • Maxthon Cloud Browser • Norton Studio • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions)  Some: Windows 10 Pro 64 Some: Windows 10 Home 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • McAfee LiveSafe (30 days of virus definitions)							
Limited warranty	1-year - depot repair service / service upgrades available							
Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant							

# ThinkPad E550 20DF (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DF004P++	i5-5200U	No	HD 5500	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 64	1-depot	No	01/15
20DF004R++	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	None	1-depot	No	01/15
20DF004X++	i5-5200U	No	HD 5500	4GBx1	15.6" FHD	None	128GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF004Q++	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	128GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF004V++	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	500GB 7200 SSHD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0051++	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0050++	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	128GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0053++	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200 SSHD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0054++	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	01/15
20DF0092++	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	04/15
20DF0093++	i5-5200U	No	HD 5500	4GBx1	15.6" FHD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	04/15
20DF0099++	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	05/15
20DF009B++	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	05/15
20DF00E2++	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 5400 SSHD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	None	1-depot	No	08/15
20DF00E3++	i3-5015U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win8.1 DG Win7	1-depot	No	08/15
20DF00EV++	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 5400 SSHD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	None	1-depot	No	09/15
20DF00EW++	i3-5015U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	None	1-depot	No	09/15
20DF00EX++	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	None	1-depot	No	09/15
20DF00F0++	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 5400	Bezel	3160 ac+BT4.0	None	None	720p	Numpad	TPM	No	6 (48wh)	45W	None	1-depot	No	11/15

Country Code"+": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

- For detailed platform specifications, please see [ThinkPad E550 Platform Specifications sheet](#)

Processor	4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor								Dimensions Weight Case color Case material	None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm 6-cell None Touch: from 5.21 lb (2.35kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics			
	i3-4005U	2	4	1.7 GHz	-	3MB	DDR3L-1600	HD4400			
	i3-5005U	2	4	2.0 GHz	-	3MB		HD5500			
	i3-5015U	2	4	2.1 GHz	-	3MB		HD5500			
i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB		HD5500				
Graphics	Intel HD Graphics in processor only, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content)								Camera	HD720p resolution, fixed focus	
Chipset	Intel SoC (System on Chip) platform 16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Memory									Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
									ThinkLight™	None	
Multi-touch	Some: supports 10-finger gesture								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory								Security chip vPro	Some: Trusted Platform Module, TCG 1.2-compliant	
									Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
Optical	Some: DVD burner, 9.0mm high, removable Some: Blank Bezel								NFC	None	
									Battery type	Li-Ion 6-cell (48Wh)	
M.2 SSD	None								Battery life	6-cell (48Wh): up to 9.0 hr	
									AC adapter	45-watt AC adapter (Integrated Graphics)	
Ethernet	Intel WGI218V Gigabit Ethernet Connection								Preload	Some: No operating system	Some: Windows 8.1 64-bit
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Limited warranty	Some: Windows® 7 Professional 64	
WLAN	One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card									Some: Windows 8.1 Pro 64-bit	
WWAN	None								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	
SIM card	None										

# ThinkPad E550 20DF (Discrete) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DF004N++	i5-5200U	No	R7 M260	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 64	1-depot	No	01/15
20DF004S++	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 64	1-depot	No	01/15
20DF004U++	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF004W++	i7-5500U	No	R7 M260	4GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF004T++	i5-5200U	No	R7 M260	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF0052++	i5-5200U	No	R7 M260	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20DF0091++	i5-5200U	No	R7 M260	4GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	04/15
20DF009A++	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win8.1 DG Win7	1-depot	No	05/15
20DF00ER++	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	None	1-depot	No	09/15

Country Code\*++ : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad E550 Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor								Dimensions	None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	6-cell None Touch: from 5.21 lb (2.35kg)		
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	HD5500	Case color	Graphite Black		
	i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB	DDR3L-1600	HD5500	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
Graphics	AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content)								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
									Ports	Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector		
Chipset	Intel SoC (System on Chip) platform								Monitor cable	None		
									Camera	HD720p resolution, fixed focus		
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack		
									Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad		
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad		
									ThinkLight™	None		
Multi-touch	Some: supports 10-finger gesture								Security	Power-on password, hard disk password, supervisor password, security keyhole		
									Security chip	None		
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™								vPro	None		
									Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor		
Optical	Some: Hybrid drive with 8GB NAND flash memory DVD burner, 9.0mm high, removable None								NFC	None		
									Battery type	Li-Ion 6-cell (48Wh)		
Ethernet	Intel WGI218V Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Battery life	6-cell (48Wh): up to 9.0 hr		
									AC adapter	65-watt AC adapter (Discrete Graphics)		
Bluetooth™									Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
									WLAN	One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card		
WLAN									Limited warranty	1-year - depot repair service / service upgrades available		
									WWAN	None		
SIM card									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant		

# ThinkPad E550 20DF (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DF00CX++	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00C2++	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00CP++	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200 SSHD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00CQ++	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00CS++	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	500GB 7200 SSHD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00CY++	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00CM++	i5-5200U	No	HD 5500	4GBx1	15.6" FHD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00CW++	i5-5200U	No	HD 5500	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 H64	1-depot	No	07/15
20DF00CR++	i5-5200U	No	HD 5500	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	07/15
20DF00DS++	i3-5015U	No	HD 5500	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DF00DR++	i3-5015U	No	HD 5500	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DF00E1++	i5-5200U	No	HD 5500	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	08/15
20DF00EY++	i3-5005U	No	HD 5500	4GBx1	15.6" FHD	None	500GB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	No	6 (48wh)	45W	Win10 P64	1-depot	No	11/15
20DF00F4++	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	128GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	07/16
20DF00F5++	i3-5005U	No	HD 5500	4GBx1	15.6" HD	None	128GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	10/16

• For detailed platform specifications, please see [ThinkPad E550 Platform Specifications sheet](#)

Processor	4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor								Dimensions Weight Case color Case material	None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm 6-cell None Touch: from 5.21 lb (2.35kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics			
	i3-4005U	2	4	1.7 GHz	-	3M	DDR3L-1600	HD4400			
	i3-5005U	2	4	2.0 GHz	-			HD5500			
	i3-5015U	2	4	2.1 GHz	-			HD5500			
i5-5200U	2	4	2.2 GHz	2.7 GHz	HD5500						
Graphics	Intel HD Graphics in processor only, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content)								Camera	HD720p resolution, fixed focus	
Chipset	Intel SoC (System on Chip) platform								Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
	Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio								ThinkLight™	None	
Multi-touch	Some: supports 10-finger gesture								Security	Power-on password, hard disk password, supervisor password, security keyhole	
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable								Security chip	Some: Trusted Platform Module, TCG 1.2-compliant	
	Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™								vPro	None	
Optical	Some: Hybrid drive with 8GB NAND flash memory								Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
	DVD burner, 9.0mm high, removable								NFC	None	
M.2 SSD	None								Battery type	Li-Ion 6-cell (48Wh)	
Ethernet	Intel WGI218V Gigabit Ethernet Connection								Battery life	6-cell (48Wh): up to 9.0 hr	
									AC adapter	45-watt AC adapter (Integrated Graphics)	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit	
WLAN									One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card		Some: Windows 10 Home 64 Some: Windows 10 Pro 64
	Limited warranty	1-year - depot repair service / service upgrades available									
WWAN	None								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	
SIM card	None										

# ThinkPad E550 20DF (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

Type-model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20DF00CN++	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	07/15
20DF00D0++	i5-5200U	No	R7 M260	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	07/15
20DF00D1++	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win10 H64	1-depot	No	07/15
20DF00CV++	i7-5500U	No	R7 M260	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	07/15
20DF00CT++	i5-5200U	No	R7 M260	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win10 H64	1-depot	No	07/15
20DF00CU++	i5-5200U	No	R7 M260	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	07/15
20DF00EQ++	i5-5200U	No	R7 M260	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3160 ac+BT4.0	None	None	720p	Numpad	None	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	09/15

Country Code\*++ : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)  
 Note: models listed above might not be available in all WE countries

• For detailed platform specifications, please see [ThinkPad E550 Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor								Dimensions	None Touch(WxDxH): 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	6-cell None Touch: from 5.21 lb (2.35kg)	
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	HD5500	Case color	Graphite Black	
	i7-5500U	2	4	2.4 GHz	3.0 GHz	4MB		HD5500	Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Graphics	AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content)								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Chipset	Intel SoC (System on Chip) platform 16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Ports	Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector	
Memory									Monitor cable	None	
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio								Camera	HD720p resolution, fixed focus	
									Audio support	HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
Multi-touch	Some: supports 10-finger gesture								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory								UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad	
									ThinkLight™	None	
Optical	DVD burner, 9.0mm high, removable None								Security	Power-on password, hard disk password, supervisor password, security keyhole	
									Security chip	None	
M.2 SSD									vPro	None	
									Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor	
Ethernet	Intel WGI218V Gigabit Ethernet Connection								NFC	None	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Battery type	Li-Ion 6-cell (48Wh)	
WLAN	One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card								Battery life	6-cell (48Wh): up to 9.0 hr	
									AC adapter	65-watt AC adapter (Discrete Graphics)	
WWAN	None								Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	
SIM card	None								Limited warranty	1-year - depot repair service / service upgrades available	
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	



Lenovo® ThinkPad E560



Lenovo ThinkPad E560



Lenovo ThinkPad E560

# ThinkPad E560 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i3 / i5 / i7 Processor and Celeron Processor								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None <i>Some:</i> HD720p resolution, fixed focus <i>Some:</i> 3D camera, Intel RealSense™ 3D Camera with MIC HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics			
	Cel 3855U	2	2	1.6 GHz	-	2MB	DDR3L-1600	Intel HD Graphics 510			
	i3-6100U	2	4	2.3 GHz	-	3MB		Intel HD Graphics 520			
	i5-6200U			2.3 GHz	2.8 GHz	3MB					
i7-6500U	2.5 GHz			3.1 GHz	4MB						
Graphics	Intel HD Graphics in processor only, or AMD Radeon R7 M370 Graphics, 2GB GDDR5 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent displays; Max resolution: 1920x1080 (HDMI) @60Hz								Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None	
Chipset Memory	Intel SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2	
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio								vPro Fingerprint reader NFC	None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None	
Multi-touch	None								Battery type Battery life AC adapter	Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics)	
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™								Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial)	
Optical	Some: SSHD with 8GB NAND flash memory Some: DVD burner, 9.0mm high, removable Some: Blank Bezel										
M.2 SSD	None										
Ethernet Bluetooth™	Gigabit Ethernet Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter										
WLAN	One of the following, configurable by model: • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card								Limited warranty	1-year - depot repair service / service upgrades available	
WWAN	None										
SIM card	None										
Dimensions Weight Case color Case material	All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm From 5.39 lb (2.45kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover										Mil-Spec test
									Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant	

# ThinkPad E560 20EV (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EV0012++	i5-6200U	No	HD 520	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	3D	Numpad	TPM	Finger	6 (48wh)	45W	Win10 H64	1-depot	No	11/15
20EV000M++	i3-6100U	No	HD 520	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV000U++	i5-6200U	No	HD 520	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV000P++	i3-6100U	No	HD 520	4GBx1	15.6" HD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV0013++	i5-6200U	No	HD 520	4GBx1	15.6" FHD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV0010++	i5-6200U	No	HD 520	4GBx1	15.6" HD	None	500GB 5400 SSHD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV000R++	i5-6200U	No	HD 520	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV000T++	i5-6200U	No	HD 520	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV000V++	i5-6200U	No	HD 520	8GBx1	15.6" FHD	None	500GB 5400 SSHD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	11/15
20EV000N++	i5-6200U	No	HD 520	4GBx1	15.6" HD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	No	1-depot	No	11/15
20EV003G++	i3-6100U	No	HD 520	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	05/16
20EV003H++	i3-6100U	No	HD 520	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	05/16
20EV003J++	i5-6200U	No	HD 520	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	05/16
20EV003Q++	i5-6200U	No	HD 520	4GBx1	15.6" HD	None	256GB SSD Opal2	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	07/16
20EV0040++	i5-6200U	No	HD 520	8GBx1	15.6" FHD	None	256GB SSD Opal2	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20EV0041++	i5-6200U	No	HD 520	4GBx1	15.6" FHD	None	256GB SSD Opal2	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20EV0042++	i3-6100U	No	HD 520	4GBx1	15.6" HD	None	256GB SSD Opal2	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM1.2	Finger	6 (48wh)	45W	Win10 DG Win7	1-depot	No	10/16
20EV0034++	i5-6200U	No	HD 520	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	8260 ac+BT	None	None	720p	Numpad	TPM	Finger	6 (48wh)	45W	Win10 P64	1-depot	No	04/16

Processor	6th Generation Intel® Core™ i3 / i5 Processor and Celeron Processor								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Mil-Spec test Environment	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None <i>Some:</i> HD720p resolution, fixed focus <i>Some:</i> 3D camera, Intel RealSense™ 3D Camera with MIC HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2 None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <b>1-year</b> - depot repair service / service upgrades available None EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	Cel 3855U	2	2	1.6 GHz	-	2MB	DDR3L-1600	Intel HD Graphics 510		
	i3-6100U	2	4	2.3 GHz	-	3MB		Intel HD Graphics 520		
i5-6200U	2.3 GHz			2.8 GHz	3MB					
Graphics	Intel HD Graphics in processor only, or external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content)									
Chipset	Intel SoC (System on Chip) platform									
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets									
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio									
Multi-touch	None									
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory									
Optical	<i>Some:</i> DVD burner, 9.0mm high, removable <i>Some:</i> Blank Bezel									
Ethernet	Gigabit Ethernet Connection									
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									
WLAN	<i>One of the following, configurable by model:</i> • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card									
WWAN	None									
SIM card	None									
Dimensions	<i>All (WxDxH):</i> 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm									
Weight	From 5.39 lb (2.45kg)									
Case color	Graphite Black									
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover									

# ThinkPad E560 20EV (Discrete) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Power adapter (watt)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EV001B++	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	No	1-depot	No	11/15
20EV000Q++	i5-6200U	No	R7 M370	4GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EV000X++	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	192GB SSD	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EV000Y++	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EV0011++	i5-6200U	No	R7 M370	8GBx1	15.6" FHD	None	500GB 7200	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EV000W++	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3165 ac+BT	None	None	3D	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 H64	1-depot	No	11/15
20EV000S++	i5-6200U	No	R7 M370	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3165 ac+BT	None	None	3D	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 H64	1-depot	No	11/15
20EV002T++	i5-6200U	No	R7 M370	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EV002U++	i5-6200U	No	R7 M370	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	11/15
20EV002V++	i5-6200U	No	R7 M370	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3165 ac+BT	None	None	3D	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	11/15
20EV002W++	i5-6200U	No	R7 M370	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	11/15
20EV003X++	i5-6200U	No	R7 M370	8GBx1	15.6" FHD	None	256GB SSD Opal2	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	10/16
20EV003Y++	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	256GB SSD Opal2	DVD±RW	3165 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 DG Win7	1-depot	No	10/16
20EV0031++	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	1TB 5400	DVD±RW	8260 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	04/16
20EV003E++	i7-6500U	No	R7 M370	8GBx1	15.6" FHD	None	256GB SSD Opal2	DVD±RW	8260 ac+BT	None	None	720p	Numpad	TPM2.0	Finger	6 (48wh)	65W	Win10 P64	1-depot	No	04/16

• For detailed platform specifications, please see [ThinkPad E560 Platform Specifications sheet](#)

Processor	6th Generation Intel® Core™ i5 / i7 Processor							
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR3L-1600	Intel HD Graphics 520
	i7-6500U			2.5 GHz	3.1 GHz	4MB		
Graphics	AMD Radeon R7 M370 Graphics, 2GB GDDR5 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content)							
Chipset	Intel SoC (System on Chip) platform							
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets							
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio							
	Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio							
Multi-touch	None							
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ Some: SSHD with 8GB NAND flash memory Some: DVD burner, 9.0mm high, removable Some: Blank Bezel							
Optical								
Ethernet	Gigabit Ethernet Connection							
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter							
WLAN	One of the following, configurable by model: • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card							
WWAN	None							
SIM card	None							
Dimensions	All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm							
Weight	From 5.39 lb (2.45kg)							
Case color	Graphite Black							
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover							

Smart Card Reader	None
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack
Monitor cable	None
Camera	Some: HD720p resolution, fixed focus Some: 3D camera, Intel RealSense™ 3D Camera with MIC
Audio support	HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
UltraNav™	TrackPoint® pointing device and multi-touch with 3+2 buttons click pad
ThinkLight™	None
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2
vPro	None
Fingerprint reader	Some: Fingerprint reader on the keyboard bezel, swipe sensor
NFC	None
Battery type	Li-Ion 6-cell (48Wh)
Battery life	6-cell (48Wh): up to 9.0 hr
AC adapter	Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics)
Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
Limited warranty	1-year - depot repair service / service upgrades available
Mil-Spec test	None
Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant



Lenovo® ThinkPad E565



Lenovo ThinkPad E565



Lenovo ThinkPad E565

# ThinkPad E565 Platform Specifications

Product Specifications Reference (PSREF)

Processor	AMD Accelerated Processor A6, A8, A10, or FX APU								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Environment	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0</i> : Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2</i> : Trusted Platform Module, TCG 1.2-compliant <i>TPM</i> : TPM2.0 and TPM1.2 None <i>Some</i> : Fingerprint reader on the keyboard bezel, swipe sensor None Li-Ion 6-cell (48Wh) Up to 6.5 hr <i>Some</i> : 45-watt AC adapter (Integrated Graphics) <i>Some</i> : 65-watt AC adapter (Discrete Graphics) <i>Some</i> : No operating system <i>Some</i> : Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) 1-year - depot repair service / service upgrades available EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics		
	A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB	DDR3L-1600	R5 Graphics		
	A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 Graphics		
	A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 M335DX (R6+R5 M330)		
	A10-8700P	4	10	1.8 GHz	3.2 GHz	2MB		R6 M340DX (R6+R5 M330)		
FX-8800P	4	12	2.1 GHz	3.4 GHz	2MB		R8 M350DX (R7+R5 M330)			
Graphics	AMD Radeon™ R5 or R6 Graphics in processor only, or AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or Dual Graphics support for A8, A10 and FX APU external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display									
Chipset	AMD SoC (System on Chip) platform									
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets									
Display	<i>Some</i> : <b>15.6"</b> (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some</i> : <b>15.6"</b> (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio									
Multi-touch	None									
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some</i> : SSHD with 8GB NAND flash memory <i>Some</i> : DVD burner, 9.0mm high, removable <i>Some</i> : Blank Bezel									
Optical	None									
M.2 SSD	None									
Ethernet	Gigabit Network Connection									
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									
WLAN	<i>One of the following, configurable by model:</i> • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card									
WWAN	None									
SIM card	None									
Dimensions	<i>All (WxDxH):</i> 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm									
Weight	From 5.46 lb (2.48kg)									
Case color	Graphite black									
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover									

# ThinkPad E565 20EY (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN/SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EY000S++	A6-8500P	R5	4GBx1	15.6" HD	500G 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM1.2	No	6(48wh)	Win10 DG Win7	1-Depot	No	11/15
20EY000V++	A8-8600P	R6	4GBx1	15.6" HD	500G 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM1.2	No	6(48wh)	Win10 DG Win7	1-Depot	No	11/15
20EY000X++	A8-8600P	R6	4GBx1	15.6" HD	500G 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM	No	6(48wh)	Win10 H64	1-Depot	No	11/15
20EY000U++	A6-8500P	R5	4GBx1	15.6" HD	500G 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM	No	6(48wh)	Win10 H64	1-Depot	No	11/15
20EY000W++	A8-8600P	R6	4GBx1	15.6" HD	500G 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM1.2	No	6(48wh)	No	1-Depot	No	11/15
20EY001D++	A8-8600P	R6	4GBx1	15.6" HD	500G 7200	DVD±RW	QCA ac+BT	No	No	720p	Numpad	TPM1.2	No	6(48wh)	Win10 DG Win7	1-Depot	No	05/16
20EY001C++	A8-8600P	R6	4GBx1	15.6" HD	500G 7200	DVD±RW	QCA ac+BT	No	No	720p	Numpad	TPM1.2	No	6(48wh)	No	1-Depot	No	05/16
20EY001X++	A8-8600P	R6	4GBx1	15.6" HD	500G 7200	DVD±RW	QCA ac+BT	No	No	720p	Numpad	TPM1.2	Finger	6(48wh)	No	1-Depot	No	07/16
20EY0020++	A8-8600P	R6	4GBx1	15.6" HD	500G 7200	DVD±RW	QCA ac+BT	No	No	720p	Numpad	TPM	No	6(48wh)	Win10 P64	1-Depot	No	07/16
20EY0021++	A8-8600P	R6	4GBx1	15.6" HD	500G 7200	DVD±RW	QCA ac+BT	No	No	720p	Numpad	TPM	Finger	6(48wh)	Win10 P64	1-Depot	No	07/16

• For detailed platform specifications, please see [ThinkPad E565 Platform Specifications sheet](#)

Processor	AMD Accelerated Processor A6, A8 APU								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Environment	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0</i> : Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2</i> : Trusted Platform Module, TCG 1.2-compliant <i>TPM</i> : TPM2.0 and TPM1.2 None <i>Some</i> : Fingerprint reader on the keyboard bezel, swipe sensor None Li-Ion 6-cell (48Wh) Up to 6.5 hr 45-watt AC adapter (Integrated Graphics) <i>Some</i> : No operating system <i>Some</i> : Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 1-year - depot repair service / service upgrades available EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics		
	A6-8500P	2	6	1.6 GHz	3.0 GHz	1MB	DDR3L-1600	R5 Graphics		
	A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB		R6 Graphics		
Graphics	AMD Radeon™ R5 or R6 Graphics in processor only, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content);									
Chipset Memory	AMD SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets									
Display	<i>Some</i> : 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some</i> : 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio									
Multi-touch	None									
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some</i> : SSHD with 8GB NAND flash memory <i>Some</i> : DVD burner, 9.0mm high, removable <i>Some</i> : Blank Bezel									
Optical										
Ethernet Bluetooth™	Gigabit Network Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									
WLAN	<i>One of the following, configurable by model:</i> • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card									
WWAN	None									
SIM card	None									
Dimensions	<i>All (WxDxH)</i> : 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm									
Weight	From 5.46 lb (2.48kg)									
Case color	Graphite black									
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover									

# ThinkPad E565 20EY (Discrete) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Graphics	Memory	Display	Storage	Optical	WLAN & Bluetooth	WWAN/ SSD	SIM card	Camera	Keyboard	TPM	Finger print reader	Battery cells(wh)	Preload	Base Warranty (year)	Global	Ann Date (m/y)
20EY000T++	A10-8700P	R6 M340DX	8GBx1	15.6" HD	1TB 5400	DVD±RW	BCM ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	No	1-Depot	No	11/15
20EY001B++	A8-8600P	R6 M335DX	4GBx1	15.6" HD	500G 7200	DVD±RW	QCA ac+BT	No	No	720p	Numpad	TPM2.0	No	6(48wh)	Win10 H64	1-Depot	No	05/16
20EY001W++	A8-8600P	R6 M335DX	4GBx1	15.6" HD	500G 7200	DVD±RW	QCA ac+BT	No	No	720p	Numpad	TPM2.0	Finger	6(48wh)	Win10 P64	1-Depot	No	07/16
20EY001Y++	A8-8600P	R6 M335DX	4GBx1	15.6" HD	500G 7200	DVD±RW	QCA ac+BT	No	No	720p	Numpad	TPM2.0	Finger	6(48wh)	Win10 H64	1-Depot	No	07/16

• For detailed platform specifications, please see [ThinkPad E565 Platform Specifications sheet](#)

Processor	AMD Accelerated Processor A8, A10, or FX APU								Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support	None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory Types	Graphics		
	A8-8600P	4	10	1.6 GHz	3.0 GHz	2MB	DDR3L-1600	R6 M335DX (R6+R5 M330)		
	A10-8700P	4	10	1.8 GHz	3.2 GHz	2MB		R6 M340DX (R6+R5 M330)		
FX-8800P	4	12	2.1 GHz	3.4 GHz	2MB		R8 M350DX (R7+R5 M330)			
Graphics	AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or Dual Graphics support for A8, A10 and FX APU external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content)								Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None
Chipset	AMD SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole
Memory	16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								Security chip	TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2
Display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio								vPro Fingerprint reader NFC	None Some: Fingerprint reader on the keyboard bezel, swipe sensor None
Multi-touch	None								Battery type Battery life AC adapter	Li-Ion 6-cell (48Wh) Up to 6.5 hr 65-watt AC adapter (Discrete Graphics)
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™								Preload	Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Some: Windows 10 Pro 64 Some: Windows 10 Home 64
Optical	Some: SSHD with 8GB NAND flash memory Some: DVD burner, 9.0mm high, removable Some: Blank Bezel								Limited warranty	1-year - depot repair service / service upgrades available
Ethernet	Gigabit Network Connection								Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant
Bluetooth™	Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter									
WLAN	One of the following, configurable by model: • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card									
WWAN	None									
SIM card	None									
Dimensions	All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm									
Weight	From 5.46 lb (2.48kg)									
Case color	Graphite black									
Case material	PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover									

Disclaimer

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PSREF books for the withdrawn systems:  
[http://www.lenovo.com/psref/psrefs\\_withdrawn.html](http://www.lenovo.com/psref/psrefs_withdrawn.html)

**Availability:** All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

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**Footnotes:**

<sup>1</sup> Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.

<sup>2</sup> **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.

<sup>3</sup> **Thinness** may vary at certain points on the system.

<sup>4</sup> **Wireless capability:** Requires compatible wireless-enabled options sold separately.

<sup>5</sup> **TAA:** ThinkPad notebook is compliant with the U.S. Federal Government's country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.

<sup>6</sup> **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

<sup>7</sup> **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.

<sup>8</sup> **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

<sup>10</sup> **Battery:** These model numbers achieved the battery life based on MobileMark® 2012 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

<sup>11</sup> **External monitor:** This system supports a maximum of two external monitors. The integrated display(s) must be disabled to support two external monitors.

<sup>12</sup> **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

<sup>14</sup> **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

<sup>16</sup> **Activating Verizon Wireless Service:** Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at [www.verizonwireless.com](http://www.verizonwireless.com).

<sup>17</sup> **International Warranty Service (IWS)** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

<sup>19</sup> **Depot repair service:** The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.

<sup>20</sup> **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to [lenovo.com/pc/support](http://lenovo.com/pc/support) and enter your machine type and model number for more information.

<sup>22</sup> **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For ThinkPad notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See Lenovo Warranty Services terms and conditions for complete details and restrictions.

<sup>23</sup> **Activating AT&T Wireless Service:** Requires separate agreement with AT&T, subject to service agreement, rate plan and coverage maps. AT&T, not Lenovo, is solely responsible for service. Coverage not available in all areas; AT&T Broadband-Connect available in select metropolitan markets. Special credit and tenure restrictions and additional charges may apply to international roaming. A network connection, third-party software, additional hardware, and/or subscription to a third-party service may be required for certain solutions/applications. Additional restrictions apply, including early termination fee; see [www.wireless.att.com](http://www.wireless.att.com) for details. To activate call Lenovo Wireless Activation Hot Line at 1-877-299-4710.

<sup>26</sup> **Full-size keyboard:** As defined by ISO/IEC 15412.

<sup>30</sup> **Measures only maximum** data transfer rate, not application performance. Many factors affect application performance.

<sup>24</sup> **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

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Visit [www.lenovo.com/psref](http://www.lenovo.com/psref) for the latest version of Product Specifications Reference.

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