



Personal Systems Reference Lenovo® ThinkPad® Edge Notebooks

May 2012 - Version 417



Visit www.lenovo.com/psref for the latest version

ThinkPad®



Lenovo® ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s

ThinkPad® Edge E220s 5038 (TopSeller)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ³ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Finger print reader	Blue-tooth	Battery cells	Preload
⚡ 5038-2NU	i7-2617M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Pro 64
⚡ 5038-2MU	i7-2617M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Prem 64
⚡ 5038-2LU	i5-2537M	4GBx1	12.5" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger	Blue	8	Prem 64
⚡ 5038-2KU	i5-2537M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Pro 64
⚡ 5038-4DU	i3-2357M	4GBx1	12.5" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		8	Prem 64
⚡ 5038-4EU	i3-2357M	4GBx1	12.5" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		8	Pro 64
⚡ 5038-4MU	i5-2467M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Pro 64
5038-55U	i5-2467M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Prem 64
5038-56U	i5-2467M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Pro 64
5038-57U	i3-2367M	4GBx1	12.5" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		8	Pro 64
⚡ 5038-6KU	i5-2467M	4GBx1	12.5" HD	720p	500G 5400	Intel 1000	None	None	Finger	Blue	8	Pro 64

- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<p><i>Elegant design with quality, reliability, and portability for SMB customers; one spindle</i></p> <p>Intel® Core™ i3-2357M processor (dual-core, 1.30GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Hyper-Threading technology Intel Core i3-2367M processor (dual-core, 1.40GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Hyper-Threading technology Intel Core i5-2467M processor (dual-core, 1.60GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.30GHz), HT technology Intel Core i5-2537M processor (dual-core, 1.40GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.30GHz), HT technology Intel Core i7-2617M processor (dual-core, 1.50GHz, 4MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology</p>							<p>Preloaded operating system²⁰</p> <ul style="list-style-type: none"> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 <p>Ready to install applications¹⁴ (only some listed)</p> <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Fingerprint Software (fingerprint models) • Password Manager (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox <p>Preloaded applications¹⁴ (only some listed)</p> <ul style="list-style-type: none"> • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • Adobe Acrobat® X Standard (bundled with Microsoft Office) 				
Memory	4GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, one 204-pin SO-DIMM socket											
Optical	None											
SATA disk	<p>Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high</p> <p>Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™</p> <p>All: removable, upgradable, Shock Mounted Hard Drive</p>											
mSATA	None											
Widescreen display	12.5" (317.5mm) HD (1366x768) color , anti-glare display with glossy infinity glass, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio											
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus											
Graphics	<p>Intel HD Graphics 3000 in processor, 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;</p> <p><i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI port)@60Hz</i></p>											
Keyboard	6-row, spill-resistant, multimedia Fn keys											
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³											
Touch pad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, scrolling regions, multi-touch											
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions											
Dimensions ³	12.5W" (WxDxH): 12.32" x 8.41" x 0.86"; 313mm x 213.5mm x 21.9mm											
Weight ²	starting at 3.23 lb (1.46kg)											
Case color	Moss Black soft touch finish, authentic metal accents											
Case material	Magnesium/Aluminum + PPS											
Battery - type ³⁷	Integrated Lithium Ion 8-cell, 1000 cycle battery											
Battery - life ¹⁰	8-cell (40.7Whr): up to 6.0 hr											
Chipset	Mobile Intel HM65 Express Chipset											
ExpressCard/34	None											
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)											
Ports	Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)							Supports ThinkVantage® technologies				
PCIe Mini Card WLAN ⁴	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2							<p>65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p> <p>For compatible accessories, please go to O-E220-S sheet;</p> <p>For ThinkPlus™, ²² service upgrade options, please go to S-EDGE sheet</p>				
WWAN	None											
Modem	None											
Bluetooth™	Some: Bluetooth 3.0 wireless											
Ethernet	Realtek® RTL8111E Gigabit Network Connection											
Intel AMT	None											
Audio support	High Definition (HD) Audio, Conexant 20671 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack											
Security	Power-on password, hard disk password, supervisor password, security keyhole											
Security chip	None											
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor											
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available											

See footnotes for more detailed information

⚡ US model(s) announced December 20, 2011; previous model(s) on April 19, June 21, July 5 or October 4, 2011

⚡ US model(s) withdrawn effective December 2011

ThinkPad® Edge E220s Accessories

Personal Systems Reference (PSREF)

Memory

2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	ann 03/02/10
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	ann 03/02/10
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	ann 03/02/10

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09
USB 2.0 Port Replicator with Digital Video	0A33942	ann 03/22/11

Keyboard

TrackPoint Cap Collection	73P2698	ann 12/16/03
Ultraslim Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann 04/05/11
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Lenovo Mini Wireless Keyboard N5901 ⁵²	57Y6336	
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

Mouse

Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08
Lenovo Wireless Laser Mouse ⁵²	0A36188	ann 12/20/11
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		

Security

Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	ann 01/07/10
Lenovo Mini Speakers M220	55Y2033	ann 01/07/10

Modem

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
----------------------	---------	--------------

Power adapters

ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann 01/05/06
⁴⁵ Only compatible with the integrated graphics models.		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
90W Ultraslim AC/DC Combo Adapter	41R4493	ann 09/22/09

More info at www.lenovo.com/support/poweradapters

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

• iPod and iPhone Charge Tip (L10a)	41R4481	ann 12/18/07
• Generic Micro USB charge tip (L18)	41R4490	ann 01/06/09

More information at www.lenovopowertips.com

Carrying Cases

Up to 13.3" widescreen models: ThinkPad Ultraportable Case	41U5062	ann 05/13/08
---	---------	--------------

Up to 15.6" widescreen models:

Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance BackPack	41U5254	ann 05/01/07
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Sport Backpack	0A33896	ann 02/28/12
Lenovo Sport Slimcase	0A33897	ann 02/28/12
Lenovo Sport Messenger	0A33898	ann 02/28/12

More information at www.lenovo.com/support/cases

Monitors

ThinkVision® L1711p 17" (VGA, DVI-D)	5047HB2	ann 10/20/09
ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	ann 11/11/08
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹	2448MB6	ann 09/13/11
ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	ann 10/20/09
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹	2572MB6	ann 09/13/11
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) ⁶⁹	4420MB2	ann 09/13/11
⁶⁹ DisplayPort cable is not included.		
ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	ann 08/16/11
Lenovo LS2421p Wide 23.6" (VGA, HDMI)	4015LS1	ann 08/02/11

More information at www.lenovo.com/support/monitors

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

For more information on accessories:

www.lenovo.com/accessories

Purchase Lenovo accessories

www.lenovo.com/support/accessories

Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide

Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com

An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad Edge 14"



Lenovo ThinkPad Edge 14"
(Glossy black model)



Lenovo ThinkPad Edge 14"



ThinkPad In-Ear Headphones with mic
57Y4488



Lenovo ThinkPad Edge 14"

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Preload	Ann date (mm/yy)
≈ 0579-22U	i3-370M	2.40	2GB	14.0" HD	2.0M	250G 5400	TP 11b/g/n	None	None	Matte black	None	None	Pro 64	05/11
0579-66U	i5-540M	2.53	2GBx2	14.0" HD	0.3M	500G 5400	TP 11b/g/n	None	None	Black textured	None	None	Pro 64	12/11
0579-54U	P6200	2.13	2GBx2	14.0" HD	0.3M	500G 5400	TP 11b/g/n	None	None	Black textured	None	None	Prem 64	12/11
0579-53U	i3-380M	2.53	2GB	14.0" HD	0.3M	320G 7200	TP 11b/g/n	None	None	Black textured	None	None	Pro 64	12/11
0579-6AU	i3-380M	2.53	2GB	14.0" HD	0.3M	320G 5400	TP 11b/g/n	None	None	Black textured	None	None	Pro 64	02/12

- This small and medium business (SMB) model is part of the US TopSeller™ Program
- This system is Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Pentium® processor P6200 with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), 3MB cache or Intel® Core™ i3 processor i3-370M or i3-380M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost (3.06GHz), Hyper-Threading technology; 3MB cache										Preloaded operating system²⁰ - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate			
Memory	8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										Supports ThinkVantage® technologies 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™													
Widescreen display Camera	14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 0.3 or 2.0-megapixel, fixed focus													
Integrated graphics	Intel HD Graphics in processor, 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; <i>Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)</i>													
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar ¹³ UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None										ThinkPlus™.22 1-year LOR ²⁴ 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
Dimensions ³ Weight ² Case color Case material Battery - type ³⁷ Battery - life ¹⁰	14.0W" (WxDxH): 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm 4-cell: from 4.72 lb (2.14kg); 6-cell: from 4.9 lb (2.22kg); 9-cell: from 5.29 lb (2.40kg) Matte black or Black textured (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell 4-cell (32Whr): up to 2.9 hr; 6-cell (48Whr): up to 4.5 hr													
Chipset ExpressCard/34 Multicard Reader Ports	Mobile Intel HM55 Express Chipset One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)													
PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None None None Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None None													
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available													

See footnotes for important warranty information
 US model(s) announced May 10 or December 13, 2011; or February 28, 2012
 ≈ US model(s) withdrawn effective January 2012

Memory

2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	ann	03/02/10
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	ann	03/02/10
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	ann	03/02/10

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	ann	03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann	05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann	11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann	11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann	11/29/11
Lenovo Slim USB Portable DVD Burner	0A33988	ann	06/14/11

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	ann	05/12/09
USB 2.0 Port Replicator with Digital Video	0A33942	ann	03/22/11

Keyboard

TrackPoint Cap Collection	73P2698	ann	12/16/03
Ultraslim Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann	04/05/11
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Lenovo Mini Wireless Keyboard N5901 ⁵² (blk)	57Y6336		
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.			
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann	08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann	03/24/09

Mouse

Lenovo Optical Mouse (USB)	06P4069	ann	05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann	01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann	12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann	08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann	06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann	01/22/08
Lenovo Wireless Laser Mouse ⁵²	0A36188	ann	12/20/11
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.			

Security

3M 14.0W Privacy Filter from Lenovo	0A61769	ann	04/05/11
Kensington® MicroSaver® Cable Lock	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
Lenovo Security Cable Lock	57Y4303	ann	08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann	02/21/06

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	ann	01/07/10
Lenovo Mini Speakers M220	55Y2033	ann	01/07/10
Lenovo Headphone P550	55Y2065		

Modem

USB 2.0 Lenovo Modem	43R1814	ann	02/26/08
----------------------	---------	-----	----------

Batteries³⁷

ThinkPad Battery 25 (4-cell)	51J0498	ann	10/22/09
ThinkPad Battery 25+ (6-cell)	51J0499	ann	10/22/09
ThinkPad Battery 25++ (9-cell)	51J0500	ann	10/22/09
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann	09/20/05

⁴⁴ Requires the *ThinkPad 90W AC Adapter*

40Y7659 or the adapter provided with the system.

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter⁴⁵ 40Y7696 ann 01/05/06
⁴⁵ Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter 40Y7659 ann 09/20/05
 90W Ultraslim AC/DC Combo Adapter 41R4493 ann 09/22/09

More info at www.lenovo.com/support/poweradapters

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

• iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07
 • Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09

More information at www.lenovopowertips.com

Carrying Cases

Up to 14" widescreen models:

ThinkPad 14W Case Sleeve 57Y4294 ann 03/16/10

Up to 15.6" widescreen models:

Lenovo Messenger Max	41U5253	ann	05/01/07
Lenovo Performance Backpack	41U5254	ann	05/01/07
ThinkPad Business Topload Case	43R2476	ann	05/13/08
ThinkPad Business Backpack	43R2482	ann	05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann	05/13/08
ThinkPad Executive Leather Case	43R2480	ann	05/13/08
Lenovo Sport Backpack	0A33896	ann	02/28/12
Lenovo Sport Slimcase	0A33897	ann	02/28/12
Lenovo Sport Messenger	0A33898	ann	02/28/12

More information at www.lenovo.com/support/cases

Monitors

ThinkVision® L1711p 17" (VGA, DVI-D)	5047HB2	ann	10/20/09
ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	ann	11/11/08
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹	2448MB6	ann	09/13/11
ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	ann	10/20/09
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann	10/20/09
ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹	2572MB6	ann	09/13/11
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) ⁶⁹	4420MB2	ann	09/13/11
⁶⁹ DisplayPort cable is not included.			
ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	ann	08/16/11
Lenovo LS2421p Wide 23.6" (VGA, HDMI)	4015LS1	ann	08/02/11

More information at www.lenovo.com/support/monitors

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann	05/12/09
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
Lenovo Security Cable Lock	57Y4303	ann	08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann	09/22/09

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

For more information on accessories:

www.lenovo.com/accessories

Purchase Lenovo accessories

www.lenovo.com/support/accessories

Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide

Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com

An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad Edge E420



Lenovo ThinkPad Edge E420



Lenovo ThinkPad Edge E420



Lenovo ThinkPad Edge E420



Lenovo ThinkPad Edge E420



Lenovo ThinkPad Edge E420

ThinkPad® Edge E420 1141 (Intel) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ³ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-tooth	Battery cells	Preload
1141-55U	i3-2310M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Pro 64
1141-56U	i3-2310M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Prem 64
1141-57U	i3-2310M	4GBx1	14.0" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1141-58U	i3-2310M	4GBx1	14.0" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Prem 64
1141-9BU	i5-2520M	2GBx2	14.0" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1141-D9U	i3-2350M	4GBx1	14.0" HD	720p	500G 7200	Intel 1000	None	None	Matte black			6	Prem 64
1141-BUU	i3-2350M	4GBx1	14.0" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1141-BTU	i3-2350M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Pro 64
1141-GCU	i5-2450M	4GBx1	14.0" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i></p> <p>Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology</p> <p>Intel Core i3-2350M processor (dual-core, 2.30GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology</p> <p>Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</p> <p>Intel Core i5-2520M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology</p>										<p>Preloaded operating system²⁰</p> <ul style="list-style-type: none"> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 <p>Ready to install applications¹⁴ (only some listed)</p> <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Fingerprint Software (fingerprint models) • Password Manager (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox <p>Preloaded applications¹⁴ (only some listed)</p> <ul style="list-style-type: none"> • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Adobe Acrobat® X Standard (bundled with Microsoft Office) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets										
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in										
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™										
mSATA™ SSD	None										
Widescreen display	14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio										
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator										
Graphics	<p>Intel HD Graphics 3000 in processor, 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;</p> <p><i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i></p>										
Keyboard	6-row, spill-resistant, multimedia Fn keys										
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³										
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch										
ThinkLight™	None										
Dimensions ³	14.0W" (WxDxH): 13.52" x 9.20" x 1.13-1.43"; 343.4 x 233.6mm x 28.7-36.4mm										
Weight ²	6-cell: from 4.85 lb (2.2kg); 9-cell: from 5.2 lb (2.36kg)										
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom										
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic										
Battery - type ³⁷	Lithium Ion 6-cell or 9-cell										
Battery - life ¹⁰	6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr										
Chipset	Mobile Intel HM65 Express Chipset										
ExpressCard	One ExpressCard/34										
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)										
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										Supports ThinkVantage® technologies
PCIe Mini Card WLAN ⁴	Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2										<p>65-watt AC adapter</p> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.0-compliant</p> <p>RoHS-compliant</p> <p>International Warranty Service¹⁷</p> <p>24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>
WWAN	None										
Modem	None										
Bluetooth™	<i>Some:</i> Bluetooth 3.0 wireless										
Ethernet	Realtek® RTL8111E Gigabit Network Connection										
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack										
Security	Power-on password, hard disk password, supervisor password, security keyhole										
Security chip	None										
Fingerprint reader	<i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor										
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available										
											For ThinkPlus™, ²² service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information

US model(s) announced January 17, 2012; previous model(s) on April 19, June 21 or October 4, 2011

© Lenovo
(LW1-1) March 2012

ThinkPad® Edge E425 1198 (AMD) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card WLAN	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload
1198-3FU	E2-3000M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	Matte black	None	None	6	Pro 64
1198-3EU	A4-3300M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	Matte black	None	None	6	Pro 64

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> AMD Accelerated Processor E2-3000M (dual-core, 1.80GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6380G Graphics, AMD Turbo Core technology (up to 2.40GHz), integrated DDR3 memory controller (up to 1333MHz) AMD Accelerated Processor A4-3300M (dual-core, 1.90GHz, 2MB L2 cache), integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1333MHz)</p>							<p>Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64</p> <p>Ready to install applications¹⁴ (only some listed)</p> <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Fingerprint Software (fingerprint models) • Password Manager (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox 	
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets							<p>Preloaded applications¹⁴ (only some listed)</p> <ul style="list-style-type: none"> • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Adobe Acrobat® X Standard (bundled with Microsoft Office) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) 	
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™								
Widescreen display	14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio								
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator								
Graphics	Dynamic switching between discrete and integrated graphics (user selectable), AMD Radeon HD Graphics in processor, and AMD Radeon HD 6470M Graphics , PCI Express® x16, 1GB 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 external resolution: 1920x1600 (VGA)@60Hz; 1920x1080p (HDMI)@60Hz								
Keyboard TrackPoint®	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar ¹³							<p>Supports ThinkVantage® technologies</p> <p>90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p> <p>For compatible accessories, please go to O-E420 sheet;</p> <p>For ThinkPlus™, ²² service upgrade options, please go to S-EDGE sheet</p>	
Touchpad ThinkLight™	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch None								
Dimensions ³	14.0W" (WxDxH): 13.52" x 9.20" x 1.13-1.43"; 343.4 x 233.6mm x 28.7-36.4mm								
Weight ²	6-cell: from 4.85 lb (2.2kg); 9-cell: from 5.2 lb (2.36kg)								
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom								
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic								
Battery - type ³⁷	Lithium Ion 6-cell or 9-cell								
Battery - life ¹⁰	6-cell (48Whr): up to 4.2 hr; 9-cell (94Whr): up to 8.3 hr								
Chipset	AMD A60M FCH								
ExpressCard	One ExpressCard/34								
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)								
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)								
PCIe Mini Card WLAN ⁴	One PCI Express Half Mini Card slot ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® chipset, 1x1								
Modem	None								
Bluetooth™	None								
Ethernet	Realtek RTL8111E Gigabit Network Connection								
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack								
Security	Power-on password, hard disk password, supervisor password, security keyhole								
Security chip	None								
Fingerprint reader	None								
Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available									

See footnotes for more detailed information
 US model(s) announced September 6, 2011

© Lenovo
 (LW11-1) March 2012

Memory

2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	ann 03/02/10
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	ann 03/02/10
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	ann 03/02/10

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09
USB 2.0 Port Replicator with Digital Video	0A33942	ann 03/22/11

Keyboard

TrackPoint Cap Collection	73P2698	ann 12/16/03
Ultraslim Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann 04/05/11
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Lenovo Mini Wireless Keyboard N5901 ⁵² (blk)	57Y6336	
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

Mouse

Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08
Lenovo Wireless Laser Mouse ⁵²	0A36188	ann 12/20/11
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		

Security

3M 14.0W Privacy Filter from Lenovo	0A61769	ann 04/05/11
Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	ann 01/07/10
Lenovo Mini Speakers M220	55Y2033	ann 01/07/10

Modem

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
----------------------	---------	--------------

Batteries³⁷

ThinkPad Battery 25 (4-cell)	51J0498	ann 10/22/09
ThinkPad Battery 25+ (6-cell)	51J0499	ann 10/22/09
ThinkPad Battery 25+++ (9-cell)	51J0500	ann 10/22/09
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann 09/20/05

⁴⁴ Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann 01/05/06
⁴⁵ Only compatible with the integrated graphics models.		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
90W Ultraslim AC/DC Combo Adapter	41R4493	ann 09/22/09

More info at www.lenovo.com/support/poweradapters

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

- iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07
- Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09

More information at www.lenovopowertips.com

Carrying Cases

Up to 15.6" widescreen models:

Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance BackPack	41U5254	ann 05/01/07
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Sport Backpack	0A33896	ann 02/28/12
Lenovo Sport Slimcase	0A33897	ann 02/28/12
Lenovo Sport Messenger	0A33898	ann 02/28/12

More information at www.lenovo.com/support/cases

Monitors

ThinkVision® L1711p 17" (VGA, DVI-D)	5047HB2	ann 10/20/09
ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	ann 11/11/08
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹	2448MB6	ann 09/13/11
ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	ann 10/20/09
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹	2572MB6	ann 09/13/11
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) ⁶⁹	4420MB2	ann 09/13/11
⁶⁹ DisplayPort cable is not included.		
ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	ann 08/16/11
Lenovo LS2421p Wide 23.6" (VGA, HDMI)	4015LS1	ann 08/02/11

More information at www.lenovo.com/support/monitors

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

For more information on accessories:
www.lenovo.com/accessories
 Purchase Lenovo accessories

www.lenovo.com/support/accessories
 Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
 Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
 An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad Edge E420s



Lenovo ThinkPad Edge E420s



ThinkVision® LT1421 with ThinkPad Edge E420s



Lenovo ThinkPad Edge E420s



Lenovo ThinkPad Edge E420s

ThinkPad® Edge E420s 4401 (TopSeller)

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ⁵ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Finger print reader	Blue-tooth	Bat-tery cells	Preload
⌘ 4401-27U	i5-2410M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Prem 64
⌘ 4401-28U	i5-2410M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Pro 64
⌘ 4401-29U	i3-2310M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		4	Pro 64
4401-5EU	i5-2430M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Prem 64
4401-5FU	i5-2430M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Pro 64
4401-5GU	i3-2330M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		4	Pro 64
4401-93U	i5-2430M	4GBx1	14.0" HD	720p	500G 5400	Intel 1000	None	None	Finger	Blue	4	Pro 64
⌘ 4401-7MU	i5-2450M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Pro 64
⌘ 4401-7LU	i5-2450M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Prem 64

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	<i>Elegant design with quality, reliability, and portability for SMB customers; two spindles</i> Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology Intel Core i3-2330M processor (dual-core, 2.20GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology	Preloaded operating system ²⁰ - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 Ready to install applications ¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Fingerprint Software (fingerprint models) • Password Manager (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox Preloaded applications ¹⁴ (only some listed) • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • Adobe Acrobat® X Standard (bundled with Microsoft Office) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Optical SATA disk	DVD burner, 9.5mm high, fixed, not removable, slot-in <i>Some:</i> Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ <i>All:</i> removable, upgradable, Shock Mounted Hard Drive	
mSATA	None	
Widescreen display	14.0" (355mm) HD (1366x768) color , anti-glare display with glossy infinity glass, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio	
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus	
Graphics	Intel HD Graphics 3000 in processor, 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; <i>Max external resolution:</i> 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz	
Keyboard	6-row, spill-resistant, multimedia Fn keys	
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³	
Touch pad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, scrolling regions, multi-touch	
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³	<i>14.0W" (WxDxH):</i> 13.74" x 9.29" x 0.91-1.23"; 349mm x 236mm x 23.1-31.2mm	
Weight ²	starting at 4.14 lb (1.88kg)	
Case color	Moss Black soft touch finish, authentic metal accents	
Case material	Magnesium/Aluminum + PPS	
Battery - type ³⁷	Integrated Lithium Ion 4-cell, 1000 cycle battery	
Battery - life ¹⁰	<i>4-cell (48.8Whr):</i> up to 7.0 hr	
Chipset	Mobile Intel HM65 Express Chipset	
ExpressCard/34	None	
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports	Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
PCIe Mini Card WLAN ⁴	Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2	Supports ThinkVantage® technologies
WWAN	None	
Modem	None	
Bluetooth™	<i>Some:</i> Bluetooth 3.0 wireless	
Ethernet	Realtek® RTL8111E Gigabit Network Connection	
Intel AMT	None	
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	None	
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor	For compatible accessories, please go to O-E420-S sheet; For ThinkPlus™, ²² service upgrade options, please go to S-EDGE sheet
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	

See footnotes for more detailed information

⌘ US model(s) announced January 17, 2012; previous model(s) on March 22, October 4 or December 20, 2011

⌘ US model(s) withdrawn effective December 2011

© Lenovo
(PCD1-1) January 2012

Memory		
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	ann 03/02/10
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	ann 03/02/10
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	ann 03/02/10

Storage and removable storage		
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

ThinkPad Expansion		
Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09
USB 2.0 Port Replicator with Digital Video	0A33942	ann 03/22/11

Keyboard		
TrackPoint Cap Collection	73P2698	ann 12/16/03
Ultraslim Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann 04/05/11
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09
Lenovo Mini Wireless Keyboard N5901 ⁵²	57Y6336	
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		

Mouse		
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08
Lenovo Wireless Laser Mouse ⁵²	0A36188	ann 12/20/11
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		

Security		
Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

Multimedia		
ThinkPad In-Ear Headphones with mic	57Y4488	ann 01/07/10
Lenovo Mini Speakers M220	55Y2033	ann 01/07/10

Modem		
USB 2.0 Lenovo Modem	43R1814	ann 02/26/08

Power adapters		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
90W Ultraslim AC/DC Combo Adapter	41R4493	ann 09/22/09

More info at www.lenovo.com/support/poweradapters
 Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493
 • iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07
 • Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09

More information at www.lenovopowertips.com

Carrying Cases		
<i>Up to 14" widescreen models:</i>		
ThinkPad 14W Case Sleeve	57Y4294	ann 03/16/10

<i>Up to 15.6" widescreen models:</i>		
Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance Backpack	41U5254	ann 05/01/07
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Sport Backpack	0A33896	ann 02/28/12
Lenovo Sport Slimcase	0A33897	ann 02/28/12
Lenovo Sport Messenger	0A33898	ann 02/28/12

More information at www.lenovo.com/support/cases

Monitors		
ThinkVision® L1711p 17" (VGA, DVI-D)	5047HB2	ann 10/20/09
ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	ann 11/11/08
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹	2448MB6	ann 09/13/11
ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	ann 10/20/09
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹	2572MB6	ann 09/13/11
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) ⁶⁹	4420MB2	ann 09/13/11
⁶⁹ DisplayPort cable is not included.		
ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	ann 08/16/11
Lenovo LS2421p Wide 23.6" (VGA, HDMI)	4015LS1	ann 08/02/11

More information at www.lenovo.com/support/monitors

Monitor Accessories⁴⁶		
Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

For more information on accessories:

www.lenovo.com/accessories

Purchase Lenovo accessories

www.lenovo.com/support/accessories

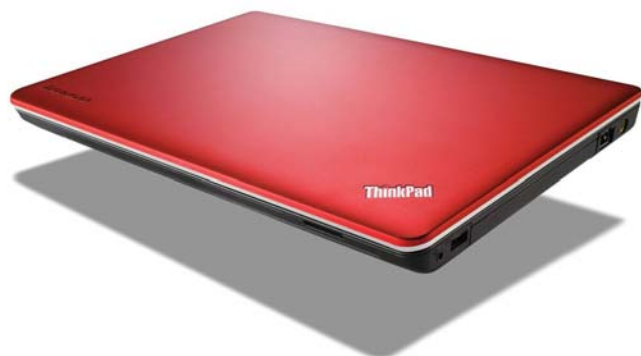
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide

Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com

An Options Compatibility Configurator for Lenovo systems



Lenovo® ThinkPad Edge E430



Lenovo ThinkPad Edge E430



Lenovo ThinkPad Edge E430



Lenovo ThinkPad Edge E430



Lenovo ThinkPad Edge E430



Lenovo ThinkPad Edge E430

ThinkPad® Edge E430 3254 (Intel) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ⁵ rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Battery cells	Preload	Ann date (mm/yy)
3254-DNU	i3-2350M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	None	Black aluminum	Finger	6	Pro 64	04/12
3254-AHU	i5-2450M	4+2GB	14.0" HD Glos	720p	500G 5400	TP 11b/g/n + BT	None	None	Matte black	Finger	6	Prem 64	04/12
3254-AGU	i3-2350M	4+2GB	14.0" HD Glos	720p	500G 5400	TP 11b/g/n + BT	None	None	Matte black	Finger	6	Prem 64	04/12
3254-AFU	i3-2350M	2GBx1	14.0" HD Glos	720p	320G 5400	TP 11b/g/n	None	None	Matte black		6	Prem 64	04/12
3254-AEU	i5-2450M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	None	Matte black	Finger	6	Pro 64	04/12
3254-ADU	i3-2350M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	None	Matte black	Finger	6	Pro 64	04/12
3254-ACU	i3-2350M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black		6	Pro 64	04/12
3254-AMU	i5-2450M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	16GB	None	Black aluminum	Finger	6	Pro 64	04/12
3254-ALU	i3-2350M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	None	Black aluminum	Finger	6	Pro 64	04/12

- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i></p> <p>Intel® Core™ i3-2350M processor (dual-core, 2.30GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology</p> <p>Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</p>									<p>Preloaded operating system²⁰</p> <ul style="list-style-type: none"> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 			
Memory	<p>8GB max⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</p> <p>* System automatically clocks down for processors with 1333MHz DDR3 memory controller</p>									<p>Ready to install applications¹⁴ (only some listed)</p> <ul style="list-style-type: none"> • One Key Recovery Pro 			
Optical SATA disk	<p>DVD burner, 12.7mm high, fixed, not removable, tray-in</p> <p>Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™</p>									<p>Preloaded applications¹⁴ (only some listed)</p> <ul style="list-style-type: none"> • Access Connections™ • TrueSuite Fingerprint Software (includes password manager function) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Tools • Simple Tap • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) 			
mSATA™ SSD	<p>Some: 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot</p>												
Widescreen display	<p>Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio</p> <p>Some: 14.0" (355mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio</p>												
Camera	<p>HD720p resolution, face track, low light sensitive, fixed focus, LED indicator</p>												
Graphics	<p>Intel HD Graphics 3000 in processor, 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;</p> <p>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</p>												
Keyboard TrackPoint®	<p>6-row, spill-resistant, multimedia Fn keys</p> <p>TrackPoint pointing device, Internet Scroll Bar¹³</p>												
Touchpad ThinkLight™	<p>UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch</p> <p>None</p>												
Dimensions ³	<p><i>Matte black or Matte red (top):</i> 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm</p> <p><i>Black aluminum (top):</i> 14.0W" (WxDxH): 13.36" x 9.21" x 1.08-1.29"; 339.4 x 234mm x 27.4-32.8mm</p>												
Weight ²	<p>6-cell: from 4.74 lb (2.15kg)</p>												
Case color	<p>Some: Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom</p> <p>Some: Black aluminum (top); black bottom</p>												
Case material	<p><i>Matte black or Matte red (top):</i> Acrylonitrile-Butadiene-Styrene (ABS) plastic</p> <p><i>Black aluminum (top):</i> Aluminum</p>												
Battery - type ³⁷	<p>Lithium Ion 6-cell</p>												
Battery - life ¹⁰	<p>6-cell (48Whr): up to 6.4 hr</p>												
Chipset ExpressCard	<p>Mobile Intel HM77 Express Chipset</p> <p>None</p>												
Multicard Reader	<p>4-in-1 reader (MMC, SD, SDHC, SDXC)</p>												
Ports	<p>Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</p>												
PCIe Mini Card WLAN ⁴	<p>Two PCI Express Mini Card slots</p> <p>Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1</p> <p>Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1</p> <p>Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</p>									<p>Supports ThinkVantage® technologies</p>			
WWAN Modem	<p>None</p>									<p>65-watt AC adapter</p> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.0-compliant</p> <p>RoHS-compliant</p> <p>International Warranty Service¹⁷</p> <p>24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>			
Bluetooth™	<p>Some: Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Mini Card</p>												
Ethernet	<p>Realtek® RTL8111F Gigabit Network Connection</p>												
Audio support	<p>High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack</p>												
Security Security chip	<p>Power-on password, hard disk password, supervisor password, security keyhole</p> <p>None</p>									<p>For compatible accessories, please go to O-E430 sheet;</p> <p>For ThinkPlus™²² service upgrade options, please go to S-EDGE sheet</p>			
Fingerprint reader	<p>Some: UPEK Fingerprint reader on palm rest, swipe sensor</p>												
Limited warranty ¹²	<p>1-year - depot repair service / service upgrades²² available</p>												

See footnotes for more detailed information
US model(s) announced April 10, 2012

© Lenovo
(LEE1-1) April 2012

ThinkPad® Edge E430 Accessories

Personal Systems Reference (PSREF)

Memory			Batteries³⁷		
None			ThinkPad Battery 75+ (6-cell)	0A36311	ann 04/10/12
Storage and removable storage			ThinkPad External Battery Charger ⁴⁴	40Y7625	ann 09/20/05
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09	⁴⁴ Requires the <i>ThinkPad 90W AC Adapter</i> 40Y7659 or the adapter provided with the system.		
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09	More information at www.lenovo.com/alldaycomputing		
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11	ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann 01/05/06
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11	⁴⁵ Only compatible with the integrated graphics models.		
ThinkPad Expansion			ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09	90W Ultraslim AC/DC Combo Adapter	41R4493	ann 09/22/09
USB 2.0 Port Replicator with Digital Video	0A33942	ann 03/22/11	More info at www.lenovo.com/support/poweradapters		
Keyboard			<i>Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493</i>		
TrackPoint Cap Collection	73P2698	ann 12/16/03	• iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07		
Ultraslim Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann 04/05/11	• Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09		
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.			More information at www.lenovopowertips.com		
USB Numeric Keypad	33L3225	ann 05/01/00	Carrying Cases		
Preferred Pro USB Keyboard	73P5220	ann 06/21/05	<i>Up to 15.6" widescreen models:</i>		
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04	Lenovo Messenger Max	41U5253	ann 05/01/07
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09	Lenovo Performance Backpack	41U5254	ann 05/01/07
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05	ThinkPad Business Topload Case	43R2476	ann 05/13/08
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09	ThinkPad Business Backpack	43R2482	ann 05/13/08
Mouse			ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03	ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07	Lenovo Sport Backpack	0A33896	ann 02/28/12
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09	Lenovo Sport Slimcase	0A33897	ann 02/28/12
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02	Lenovo Sport Messenger	0A33898	ann 02/28/12
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02	More information at www.lenovo.com/support/cases		
Lenovo Wireless Laser Mouse ⁵²	0A36188	ann 12/20/11	Monitors		
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.			ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	ann 11/11/08
Security			ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹	2448MB6	ann 09/13/11
Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03	ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	ann 10/20/09
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08	ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
Lenovo Security Cable Lock	57Y4303	ann 08/24/10	ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹	2572MB6	ann 09/13/11
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06	ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) ⁶⁹	4420MB2	ann 09/13/11
Multimedia			⁶⁹ DisplayPort cable is not included.		
ThinkPad In-Ear Headphones with mic	57Y4488	ann 01/07/10	ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	ann 08/16/11
Modem			More information at www.lenovo.com/support/monitors		
USB 2.0 Lenovo Modem	43R1814	ann 02/26/08	Monitor Accessories⁴⁶		
			Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
			Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
			Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
			Lenovo Security Cable Lock	57Y4303	ann 08/24/10
			Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09
			⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.		
			More information at www.lenovo.com/support/monitoraccessories		
			For more information on accessories:		
			www.lenovo.com/accessories		
			Purchase Lenovo accessories		
			www.lenovo.com/support/accessories		
			Product specifications on Lenovo Support		
			www.lenovo.com/accessoriesguide		
			Option Compatibility Matrix (OCM) and accessory brochures		
			www.lenovoquickpick.com		
			An Options Compatibility Configurator for Lenovo systems		

ThinkPad®



Lenovo® ThinkPad Edge 15"



Lenovo ThinkPad Edge 15"
(Glossy black model)



Lenovo ThinkPad Edge 15"



Lenovo ThinkPad Edge 15"
(Glossy red model)



Lenovo ThinkPad Edge 15"

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Battery cells	Preload	Ann date (mm/yy)	
0319-26U	i3-370M	2.40	2GBx2	15.6" HD	2.0M	500G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Pro 64	05/11	
0319-25U	i3-370M	2.40	2GB	15.6" HD	2.0M	250G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Pro 64	05/11	
⚠ 0319-24U	i3-370M	2.40	2GB	15.6" HD	Glos	2.0M	250G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Prem 64	05/11
⚠ 0319-23U	P6100	2.00	2GBx2	15.6" HD	Glos	2.0M	500G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Prem 64	05/11
⚠ 0319-22U	P6100	2.00	2GB	15.6" HD	Glos	2.0M	250G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Prem 64	05/11
0319-3NU	P6200	2.13	2GB	15.6" HD	2.0M	250G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Prem 64	08/11	
0319-42U	i5-540M	2.53	2GBx2	15.6" HD	0.3M	500G 5400	TP 11b/g/n	None	None	Black textured	None	None	6	Pro 64	12/11	
0319-3SU	i3-380M	2.53	2GBx2	15.6" HD	0.3M	500G 5400	TP 11b/g/n	None	None	Black textured	None	None	6	Pro 64	12/11	
0319-3RU	i3-380M	2.53	2GB	15.6" HD	0.3M	320G 7200	TP 11b/g/n	None	None	Black textured	None	None	6	Pro 64	12/11	
0319-3QU	i3-380M	2.53	2GB	15.6" HD	0.3M	320G 7200	TP 11b/g/n	None	None	Black textured	None	None	6	Prem 64	12/11	
0319-3PU	P6200	2.13	2GBx2	15.6" HD	0.3M	500G 5400	TP 11b/g/n	None	None	Black textured	None	None	6	Prem 64	12/11	
0319-46U	i3-380M	2.53	2GB	15.6" HD	0.3M	320G 5400	TP 11b/g/n	None	None	Black textured	None	None	6	Pro 64	02/12	

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Pentium® processor P6100 or P6200 with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), 3MB cache or Intel Core™ i3 processor i3-370M or i3-380M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost (3.06GHz), Hyper-Threading technology; 3MB cache										Preloaded operating system ²⁰ - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 Preloaded applications ¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch				
Memory	2GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available														
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 250GB ⁸ (5400 rpm), 320GB (5400 rpm or 7200 rpm) or 500GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™														
Widescreen display	Some: 15.6" (395mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (395mm) HD (1366x768) color, VibrantView (glossy), LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio														
Camera	Camera on top of screen, 0.3 or 2.0-megapixel, fixed focus														
Integrated graphics	Intel HD Graphics in processor, 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; <i>Max external resolution:</i> 2048x1536@75Hz; 1920x1080 (HDMI port)														
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar ¹³ UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None										Supports ThinkVantage® technologies				
Dimensions ³ Weight ² Case color Case material Battery - type ³⁷ Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm 4-cell: from 5.32 lb (2.42kg); 6-cell: from 5.50 lb (2.50kg); 9-cell: from 5.89 lb (2.67kg) Matte black or Black textured (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell 4-cell (32Whr): up to 2.9 hr; 6-cell (48Whr): up to 4.5 hr										65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378				
Chipset ExpressCard/34 Multicard Reader Ports	Mobile Intel HM55 Express Chipset One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										ThinkPlus™.22 1-year LOR ²⁴ 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974				
PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None None None Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty				
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None														
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available														

See footnotes for important warranty information
US model(s) announced May 10, August 30, or December 13, 2011; or February 28, 2012
⚠ US model(s) withdrawn effective October 2011

Memory

2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	ann 03/02/10
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	ann 03/02/10
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	ann 03/02/10

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09
USB 2.0 Port Replicator with Digital Video	0A33942	ann 03/22/11

Keyboard

TrackPoint Cap Collection	73P2698	ann 12/16/03
Ultraslim Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann 04/05/11
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Lenovo Mini Wireless Keyboard N5901 ⁵² (blk)	57Y6336	
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

Mouse

Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08
Lenovo Wireless Laser Mouse ⁵²	0A36188	ann 12/20/11
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		

Security

3M 15.6W Privacy Filter from Lenovo	0A61771	ann 04/05/11
Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	ann 01/07/10
Lenovo Mini Speakers M220	55Y2033	ann 01/07/10
Lenovo Headphone P550	55Y2065	

Modem

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
----------------------	---------	--------------

Batteries³⁷

ThinkPad Battery 25 (4-cell)	51J0498	ann 10/22/09
ThinkPad Battery 25+ (6-cell)	51J0499	ann 10/22/09
ThinkPad Battery 25++ (9-cell)	51J0500	ann 10/22/09
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann 09/20/05
⁴⁴ Requires the <i>ThinkPad 90W AC Adapter 40Y7659</i> or the adapter provided with the system.		

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann 01/05/06
⁴⁵ Only compatible with the integrated graphics models.		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
90W Ultraslim AC/DC Combo Adapter	41R4493	ann 09/22/09

More info at www.lenovo.com/support/poweradapters

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

- iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07
- Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09

More information at www.lenovopowertips.com

Carrying Cases

ThinkPad 15W Case Sleeve	51J0477	ann 08/18/09
Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance BackPack	41U5254	ann 05/01/07
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Sport Backpack	0A33896	ann 02/28/12
Lenovo Sport Slimcase	0A33897	ann 02/28/12
Lenovo Sport Messenger	0A33898	ann 02/28/12

More information at www.lenovo.com/support/cases

Monitors

ThinkVision® L1711p 17" (VGA, DVI-D)	5047HB2	ann 10/20/09
ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	ann 11/11/08
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹	2448MB6	ann 09/13/11
ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	ann 10/20/09
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹	2572MB6	ann 09/13/11
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) ⁶⁹	4420MB2	ann 09/13/11
⁶⁹ DisplayPort cable is not included.		
ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	ann 08/16/11
Lenovo LS2421p Wide 23.6" (VGA, HDMI)	4015LS1	ann 08/02/11

More information at www.lenovo.com/support/monitors

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09
⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.		

More information at www.lenovo.com/support/monitoraccessories

For more information on accessories:
www.lenovo.com/accessories
 Purchase Lenovo accessories

www.lenovo.com/support/accessories
 Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
 Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
 An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520

ThinkPad® Edge E520 1143 (Intel) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ⁵ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload
1143-3BU	i3-2310M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Pro 64
1143-3CU	i3-2310M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Prem 64
1143-3DU	i3-2310M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Prem 64
1143-3EU	i3-2310M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-3FU	i5-2410M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-3GU	i5-2410M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Prem 64
1143-7RU	i5-2520M	2GBx2	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-BNU	i3-2350M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black			6	Prem 64
1143-AFU	i5-2430M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-AEU	i3-2350M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-ADU	i3-2350M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Pro 64
1143-D8U	i3-2350M	4GBx1	15.6" HD	720p	750G 5400	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-D7U	i5-2430M	4GBx1	15.6" HD	720p	750G 5400	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-GWU	i5-2450M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-EHU	i5-2450M	4GBx1	15.6" HD	720p	750G 5400	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-KEU	i3-2350M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n	None	None	Matte black		Blue	6	Prem 64
1143-KFU	i5-2450M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n	None	None	Matte black		Blue	6	Prem 64
1143-KGU	i5-2450M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64

- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), HT technology Intel Core i3-2350M processor (dual-core, 2.30GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-2520M processor (dual-core, 2.50GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Home Premium 64 - <i>Some:</i> Genuine Windows 7 Professional 64 Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Fingerprint Software (fingerprint models) • Password Manager (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox Preloaded applications¹⁴ (only some listed) • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • Adobe Acrobat® X Standard (bundled with Microsoft Office) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™	
mSATA™ SSD	None	
Widescreen display	15.6" (395mm) HD (1366x768) color , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator	
Graphics	Intel HD Graphics 3000 in processor, 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; <i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i>	
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³	
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch	
ThinkLight™	None	
Dimensions ³	<i>15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm</i>	
Weight ²	<i>6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg)</i>	
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom	
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic	
Battery - type ³⁷	Lithium Ion 6-cell or 9-cell	
Battery - life ¹⁰	<i>6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr</i>	
Chipset	Mobile Intel HM65 Express Chipset	
ExpressCard	One ExpressCard/34	
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	Supports ThinkVantage® technologies
PCIe Mini Card WLAN ⁴	Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
WWAN	None	
Modem	None	
Bluetooth™	<i>Some:</i> Bluetooth 3.0 wireless	
Ethernet	Realtek® RTL8111E Gigabit Network Connection	
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	For compatible accessories, please go to O-E520 sheet;
Security chip	None	
Fingerprint reader	<i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor	For ThinkPlus™ ²² service upgrade options, please go to S-EDGE sheet
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	

See footnotes for more detailed information

US model(s) announced April 19, Jun 21 or October 4, 2011; January 17 or February 28, 2012

© Lenovo (GGR1-1) March 2012

ThinkPad® Edge E525 1200 (AMD) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card WLAN	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload
1200-38U	E2-3000M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	Matte black			6	Pro 64
1200-39U	E2-3000M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	Matte black			6	Prem 64
1200-2MU	A4-3300M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n	Matte black	Finger	Blue	6	Pro 64
1200-2LU	A4-3300M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	Matte black			6	Pro 64
1200-3JU	A4-3305M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	Matte black			6	Pro 64

- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> AMD Accelerated Processor E2-3000M (dual-core, 1.80GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6380G Graphics, AMD Turbo Core technology (up to 2.40GHz), integrated DDR3 memory controller (up to 1333MHz) AMD Accelerated Processor A4-3300M (dual-core, 1.90GHz, 2MB L2 cache), integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1333MHz) AMD Accelerated Processor A4-3305M (dual-core, 1.90GHz, 1MB L2 cache), integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1333MHz)</p>							<p>Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Home Premium 64 - <i>Some:</i> Genuine Windows 7 Professional 64</p> <p>Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Fingerprint Software (fingerprint models) • Password Manager (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox</p>	
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets							<p>Preloaded applications¹⁴ (only some listed) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • Adobe Acrobat® X Standard (bundled with Microsoft Office) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)</p>	
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™								
Widescreen display Camera	<p>15.6" (395mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator</p>								
Graphics	<p>AMD Radeon HD Graphics in processor, 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 external resolution: 1920x1600 (VGA)@60Hz; 1920x1080p (HDMI)@60Hz</p>								
Keyboard TrackPoint® Touchpad ThinkLight™	<p>6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device, Internet Scroll Bar¹³ UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch None</p>								
Dimensions ³ Weight ² Case color Case material Battery - type ³⁷ Battery - life ¹⁰	<p>15.6W" (WxDxH): 14.96" x 9.78" x 1.2-1.51"; 380mm x 248.5mm x 30.6-38.3mm 6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.04 lb (2.74kg) Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell 6-cell (48Whr): up to 3.75 hr; 9-cell (94Whr): up to 7.4 hr</p>							<p>Supports ThinkVantage® technologies</p> <p>65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p> <p>For compatible accessories, please go to O-E520 sheet; For ThinkPlus™, ²² service upgrade options, please go to S-EDGE sheet</p>	
Chipset ExpressCard Multicard Reader Ports	<p>AMD A60M FCH One ExpressCard/34 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</p>								
PCIe Mini Card WLAN ⁴ Modem Bluetooth™ Ethernet Audio support	<p>One PCI Express Half Mini Card slot 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None Some: Bluetooth 3.0 wireless Realtek® RTL8111E Gigabit Network Connection High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack</p>								
Security Security chip Fingerprint reader	<p>Power-on password, hard disk password, supervisor password, security keyhole None Some: UPEK Fingerprint reader on palm rest, swipe sensor</p>								
Limited warranty ¹²	<p>1-year - depot repair service / service upgrades²² available</p>								

See footnotes for more detailed information

US model(s) announced January 17, 2012; previous model(s) on August 30 or September 6, 2011

© Lenovo (GGR11-1) March 2012

Memory

2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	ann 03/02/10
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	ann 03/02/10
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	ann 03/02/10

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09
USB 2.0 Port Replicator with Digital Video	0A33942	ann 03/22/11

Keyboard

TrackPoint Cap Collection	73P2698	ann 12/16/03
Ultraslim Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann 04/05/11
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Lenovo Mini Wireless Keyboard N5901 ⁵² (blk)	57Y6336	
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

Mouse

Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08
Lenovo Wireless Laser Mouse ⁵²	0A36188	ann 12/20/11
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.		

Security

Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	ann 01/07/10
Lenovo Mini Speakers M220	55Y2033	ann 01/07/10

Modem

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
----------------------	---------	--------------

Batteries³⁷

ThinkPad Battery 25 (4-cell)	51J0498	ann 10/22/09
ThinkPad Battery 25+ (6-cell)	51J0499	ann 10/22/09
ThinkPad Battery 25++ (9-cell)	51J0500	ann 10/22/09
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann 09/20/05

⁴⁴ Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann 01/05/06
⁴⁵ Only compatible with the integrated graphics models.		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
90W Ultraslim AC/DC Combo Adapter	41R4493	ann 09/22/09

More info at www.lenovo.com/support/poweradapters

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

- iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07
- Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09

More information at www.lenovopowertips.com

Carrying Cases

Up to 15.6" widescreen models:

Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance BackPack	41U5254	ann 05/01/07
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Sport Backpack	0A33896	ann 02/28/12
Lenovo Sport Slimcase	0A33897	ann 02/28/12
Lenovo Sport Messenger	0A33898	ann 02/28/12

More information at www.lenovo.com/support/cases

Monitors

ThinkVision® L1711p 17" (VGA, DVI-D)	5047HB2	ann 10/20/09
ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	ann 11/11/08
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹	2448MB6	ann 09/13/11
ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	ann 10/20/09
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹	2572MB6	ann 09/13/11
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) ⁶⁹	4420MB2	ann 09/13/11
⁶⁹ DisplayPort cable is not included.		
ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	ann 08/16/11
Lenovo LS2421p Wide 23.6" (VGA, HDMI)	4015LS1	ann 08/02/11

More information at www.lenovo.com/support/monitors

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

For more information on accessories:
www.lenovo.com/accessories
 Purchase Lenovo accessories

www.lenovo.com/support/accessories
 Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
 Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
 An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad Edge E530



Lenovo ThinkPad Edge E530



Lenovo ThinkPad Edge E530



Lenovo ThinkPad Edge E530



Lenovo ThinkPad Edge E530



Lenovo ThinkPad Edge E530

ThinkPad® Edge E530 3259 (Intel) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger-print reader	Bat-tery cells	Preload	Ann date (mm/yy)
3259-BSU	i5-2450M	4GBx1	15.6" HD	720p	750G 5400	Intel 2230 + BT	None	None	Matte black	Finger	6	Pro 64	04/12
3259-BRU	i3-2350M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	None	Black aluminum	Finger	6	Pro 64	04/12
3259-78U	i3-2350M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black		6	Pro 64	04/12
3259-79U	i3-2350M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	None	Matte black	Finger	6	Pro 64	04/12
3259-7AU	i5-2450M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	None	Matte black	Finger	6	Pro 64	04/12
3259-7DU	i3-2350M	2GBx1	15.6" HD Glos	720p	320G 5400	TP 11b/g/n	None	None	Matte black		6	Prem 64	04/12
3259-7EU	i3-2350M	4+2GB	15.6" HD Glos	720p	500G 5400	TP 11b/g/n + BT	None	None	Matte black	Finger	6	Prem 64	04/12
3259-7FU	i5-2450M	4+2GB	15.6" HD Glos	720p	500G 5400	TP 11b/g/n + BT	None	None	Matte black	Finger	6	Prem 64	04/12
3259-7HU	i3-2350M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	None	Black aluminum	Finger	6	Pro 64	04/12
3259-7JU	i5-2450M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	16GB	None	Black aluminum	Finger	6	Pro 64	04/12

- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> Intel® Core™ i3-2350M processor (dual-core, 2.30GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</p>									<p>Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Home Premium 64 - <i>Some:</i> Genuine Windows 7 Professional 64</p>			
Memory	<p>8GB max⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller</p>									<p>Ready to install applications¹⁴ (only some listed) • One Key Recovery Pro</p>			
Optical SATA disk	<p>DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™</p>									<p>Preloaded applications¹⁴ (only some listed) • Access Connections™ • TrueSuite Fingerprint Software (includes password manager function) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Tools • Simple Tap • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)</p>			
mSATA™ SSD	<p><i>Some:</i> 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot</p>												
Widescreen display	<p><i>Some:</i> 15.6" (395mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 15.6" (395mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio</p>												
Camera	<p>HD720p resolution, face track, low light sensitive, fixed focus, LED indicator</p>												
Graphics	<p>Intel HD Graphics 3000 in processor, 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; <i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i></p>												
Keyboard TrackPoint®	<p>6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint pointing device, Internet Scroll Bar¹³</p>												
Touchpad ThinkLight™	<p>UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch None</p>												
Dimensions ³	<p><i>Matte black or Matte red (top):</i> 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm <i>Black aluminum (top):</i> 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm</p>												
Weight ²	<p>6-cell: from 5.4 lb (2.45kg)</p>												
Case color	<p><i>Some:</i> Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom <i>Some:</i> Black aluminum (top); black bottom</p>												
Case material	<p><i>Matte black or Matte red (top):</i> Acrylonitrile-Butadiene-Styrene (ABS) plastic <i>Black aluminum (top):</i> Aluminum</p>												
Battery - type ³⁷	<p>Lithium Ion 6-cell</p>												
Battery - life ¹⁰	<p>6-cell (48Whr): up to 5.7 hr</p>												
Chipset	<p>Mobile Intel HM77 Express Chipset</p>												
ExpressCard	<p>None</p>												
Multicard Reader	<p>4-in-1 reader (MMC, SD, SDHC, SDXC)</p>												
Ports	<p>Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</p>												
PCIe Mini Card WLAN ⁴	<p>Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</p>												
WWAN Modem	<p>None</p>												
Bluetooth™	<p><i>Some:</i> Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Mini Card</p>												
Ethernet	<p>Realtek® RTL8111F Gigabit Network Connection</p>												
Audio support	<p>High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack</p>												
Security	<p>Power-on password, hard disk password, supervisor password, security keyhole</p>												
Security chip	<p>None</p>												
Fingerprint reader	<p><i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor</p>												
Limited warranty ¹²	<p>1-year - depot repair service / service upgrades²² available</p>												

See footnotes for more detailed information
 US model(s) announced April 10, 2012

© Lenovo
 (GLN1-1) April 2012

ThinkPad® Edge E530 3259 (Intel) - TopSeller - II

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ³ rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Battery cells	Preload	Ann date (mm/yy)
3259-7LU	i7-3612QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	16GB	None	Black aluminum	Finger	6	Pro 64	05/12
3259-7CU	i7-3612QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT		None	Matte black	Finger	6	Pro 64	05/12

- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> Intel® Core™ i7-3612QM processor (quad-core, 2.10GHz, 6MB Cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology										Preloaded operating system²⁰ - Genuine Windows 7 Professional 64
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets										Ready to install applications¹⁴ (only some listed) • One Key Recovery Pro
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™										Preloaded applications¹⁴ (only some listed) • Access Connections™ • TrueSuite Fingerprint Software (includes password manager function) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Tools • Simple Tap • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
mSATA™ SSD	<i>Some:</i> 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot										
Widescreen display	15.6" (395mm) HD (1366x768) color , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio										
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator										
Graphics	Intel HD Graphics 4000 in processor, 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; <i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i>										
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad										Supports ThinkVantage® technologies
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³										
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch										
ThinkLight™	None										
Dimensions ³	<i>Matte black or Matte red (top):</i> 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm <i>Black aluminum (top):</i> 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm										
Weight ²	6-cell: from 5.4 lb (2.45kg)										
Case color	<i>Some:</i> Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom <i>Some:</i> Black aluminum (top); black bottom										
Case material	<i>Matte black or Matte red (top):</i> Acrylonitrile-Butadiene-Styrene (ABS) plastic <i>Black aluminum (top):</i> Aluminum										
Battery - type ³⁷	Lithium Ion 6-cell										
Battery - life ¹⁰	6-cell (62Whr): up to 7.5 hr										
Chipset	Mobile Intel HM77 Express Chipset										
ExpressCard	None										
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)										
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										
PCIe Mini Card WLAN ⁴	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										
WWAN	None										
Modem	None										
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Mini Card										
Ethernet	Realtek® RTL8111F Gigabit Network Connection										
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack										
Security	Power-on password, hard disk password, supervisor password, security keyhole										
Security chip	None										
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor										
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available										For compatible accessories, please go to O-E530 sheet; For ThinkPlus™, ²² service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced May 1, 2012

© Lenovo
(GLN1-2) May 2012

ThinkPad® Edge E530 Accessories

Personal Systems Reference (PSREF)

Memory			Batteries³⁷		
None			ThinkPad Battery 75+ (6-cell)	0A36311	ann 04/10/12
Storage and removable storage			ThinkPad External Battery Charger ⁴⁴	40Y7625	ann 09/20/05
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09	⁴⁴ Requires the <i>ThinkPad 90W AC Adapter</i> 40Y7659 or the adapter provided with the system.		
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09	More information at www.lenovo.com/alldaycomputing		
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11	ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann 01/05/06
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11	⁴⁵ Only compatible with the integrated graphics models.		
ThinkPad Expansion			ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09	90W Ultraslim AC/DC Combo Adapter	41R4493	ann 09/22/09
USB 2.0 Port Replicator with Digital Video	0A33942	ann 03/22/11	More info at www.lenovo.com/support/poweradapters		
Keyboard			<i>Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493</i>		
TrackPoint Cap Collection	73P2698	ann 12/16/03	• iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07		
Ultraslim Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann 04/05/11	• Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09		
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.			More information at www.lenovopowertips.com		
USB Numeric Keypad	33L3225	ann 05/01/00	Carrying Cases		
Preferred Pro USB Keyboard	73P5220	ann 06/21/05	<i>Up to 15.6" widescreen models:</i>		
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04	Lenovo Messenger Max	41U5253	ann 05/01/07
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09	Lenovo Performance Backpack	41U5254	ann 05/01/07
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05	ThinkPad Business Topload Case	43R2476	ann 05/13/08
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09	ThinkPad Business Backpack	43R2482	ann 05/13/08
Mouse			ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03	ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07	Lenovo Sport Backpack	0A33896	ann 02/28/12
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09	Lenovo Sport Slimcase	0A33897	ann 02/28/12
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02	Lenovo Sport Messenger	0A33898	ann 02/28/12
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02	More information at www.lenovo.com/support/cases		
Lenovo Wireless Laser Mouse ⁵²	0A36188	ann 12/20/11	Monitors		
⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.			ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	ann 11/11/08
Security			ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹	2448MB6	ann 09/13/11
Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03	ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	ann 10/20/09
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08	ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
Lenovo Security Cable Lock	57Y4303	ann 08/24/10	ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹	2572MB6	ann 09/13/11
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06	ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) ⁶⁹	4420MB2	ann 09/13/11
Multimedia			⁶⁹ DisplayPort cable is not included.		
ThinkPad In-Ear Headphones with mic	57Y4488	ann 01/07/10	ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	ann 08/16/11
Modem			More information at www.lenovo.com/support/monitors		
USB 2.0 Lenovo Modem	43R1814	ann 02/26/08	Monitor Accessories⁴⁶		
			Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
			Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
			Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
			Lenovo Security Cable Lock	57Y4303	ann 08/24/10
			Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09
			⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.		
			More information at www.lenovo.com/support/monitoraccessories		
			For more information on accessories:		
			www.lenovo.com/accessories		
			Purchase Lenovo accessories		
			www.lenovo.com/support/accessories		
			Product specifications on Lenovo Support		
			www.lenovo.com/accessoriesguide		
			Option Compatibility Matrix (OCM) and accessory brochures		
			www.lenovoquickpick.com		
			An Options Compatibility Configurator for Lenovo systems		

The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller systems. TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service is not offered as a TopSeller service part.

For more information see:

<http://www1.partnerinfo.lenovo.com/us/en/salestoolkit.shtml>

TopSeller service upgrade options for ThinkPad Edge Series

ThinkPad Edge E220s/E420s Sealed Battery notebooks with 1-year Depot warranty

3 YEAR Depot Warranty with Battery Replacement	04W8702
3 YEAR Depot Warranty with Battery Replacement & ThinkPad Protection	04W8704
3 YEAR Onsite Warranty with Battery Replacement	04W8703
3 YEAR Onsite Warranty with Battery Replacement & ThinkPad Protection	04W8705

ThinkPad Edge notebooks with 1-year Depot warranty

3 YEAR Depot Warranty	04W8706
3 YEAR Depot Warranty & ThinkPad Protection	04W8708
3 YEAR Onsite Warranty	04W8707
3 YEAR Onsite Warranty & ThinkPad Protection	04W8709

TopSeller Priority Support

- 24x7 support with priority routing and advanced level technicians

ThinkPad Edge notebooks with 1-year Depot warranty

Add to 3-year warranty coverage - 3-year Priority Support*	04W8720
--	---------

* Covered machine must have concurrent warranty coverage.

Partial list of Lenovo® ThinkPlus Services²² for ThinkPad Edge notebooks

For more information see: http://www.lenovo.com/services_warranty/us/en/index.html

ThinkPlus service upgrade options for ThinkPad Edge series

ThinkPad Edge notebook with 1-year Depot warranty

2 YEAR Depot Warranty	45K5971
3 YEAR Depot Warranty	45K5972

1 YEAR Onsite Warranty	45K5968
2 YEAR Onsite Warranty	45K5969
3 YEAR Onsite Warranty	45K5970
4 YEAR Onsite Warranty	0A34462

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.

Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

- ¹ Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.
- ² **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.
- ³ **Thinness** may vary at certain points on the system.
- ⁴ **Wireless capability:** Requires compatible wireless-enabled options sold separately.
- ⁶ **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.
- ⁷ **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.
- ⁸ **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

¹⁰ **Battery:** These model numbers achieved the battery life based on MobileMark® 2007 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.

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

¹³ **Internet access not included.**

¹⁴ **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.

¹⁶ **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.

¹⁷ **International Warranty Service** 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.

¹⁸ **Telephone support** may be subject to additional charges, even during the limited warranty period. Response times may vary. May exclude some holidays. If a machine is listed as having "On-site service for select repairs", this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, Lenovo will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board, or base cover. For ThinkPad notebooks with EasyServ or Courier service, Lenovo will attempt to diagnose and resolve the problem remotely before sending a courier.

¹⁹ **EasyServ depot repair service:** In the United States call 1-800-426-7378. 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.

²⁰ **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 and enter your machine type and model number for more information.

²² **ThinkPlus 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 ThinkPlus terms and conditions for complete details and restrictions.

²³ **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 BroadbandConnect 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 for details. To activate call Lenovo Wireless Activation Hot Line at 1-877-299-4710.

²⁴ **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. In the United States call 1-800-426-7378. 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.

²⁷ **Based on IEEE 802.11a and 802.11b.** A customer can not upgrade to a different wireless Mini PCI adapter due to FCC regulations. Security screws prevent removal of this adapter. This wireless LAN product has been designed to permit legal operation world-wide in regions which it is approved. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi logo.

²⁸ **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

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

³² **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.

³⁵ **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/think/support and enter your machine type and model number for more information.

³⁷ **Battery:** The ThinkPad Edge and ThinkPad SL series do not support batteries that are not genuine Lenovo-made or authorized. These systems will continue to boot, but may not charge unauthorized batteries.

Warning: Lenovo has no responsibility for the performance or safety of unauthorized batteries, and provides no warranties for failures or damage arising out of their use.

This publication was developed for products and services offered in the United States. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. LENOVO PROVIDES THIS PUBLICATION "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.

The ThinkPad logo, featuring the word "ThinkPad" in a bold, black, sans-serif font. The letter "i" in "Think" has a red dot above it. A registered trademark symbol (®) is located to the right of the word "Pad".

Trademarks: Lenovo, the Lenovo logo, New World. New Thinking., Access Connections, Active Protection System, Rescue and Recovery, ThinkPad, ThinkVantage, ThinkVision, ThinkPlus, ThinkCentre, TrackPoint, UltraConnect, UltraNav, and Ultrabay are trademarks or registered trademarks of Lenovo. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. Any use of such marks by Lenovo is under license. Microsoft, Windows, and Vista are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Intel Inside logo, Intel Core and Core Inside, Intel Centrino logo, Pentium, Celeron and Intel SpeedStep are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Cisco and Aironet are registered trademarks of Cisco Corporation. Linux is a trademark of Linus Torvalds in the United States, other countries, or both. Other company, product and service names may be trademarks or service marks of others.

Visit www.lenovo.com/safecomputing periodically for the latest information on safe and effective computing.

Visit www.lenovo.com/psref for the latest version of Personal Systems Reference.

© Lenovo, 2012.
All rights reserved.

Lenovo
1009 Think Place
Morrisville, NC 27560
U.S.A.

May 2012
edgebook.pdf