

Personal Systems Reference Lenovo IdeaCentre Desktops

June 2013 - Version 437



IdeaCentre K330




IdeaCentre B520

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Type-model	Slot x bay	Pro-cessor	GHz	Max turbo (GHz)	Memory ⁸	SATA disk	USM portable disk	SATA optical	Graphics	TV tuner	Remote control	802.11 wireless	Power supply	USB 3.0	Win 7 preload	Avail date (mm/yy)
1168-1CU	5x4	i3-2120	3.30		2+4GB	1TB ²	Dock only	DVD±RW	Intel HD 2000	None	None	11b/g/n	280W	USB 3.0	Prem 64	08/12
1168-1DU	5x4	i5-2320	3.00	3.30	4GBx2	2TB	Dock only	DVD±RW	Intel HD 2000	None	None	11b/g/n	280W	USB 3.0	Prem 64	08/12

- **Power Control Switch; color-coded three-speed switch to easily choose between turbo, auto, and cool running modes**
- **Tool-free chassis design for easy upgrading and maintenance**
- **Optional Universal Storage Module portable HDD and dock**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**


Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) , integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz) Intel Core i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache) , Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz) Processor in LGA1155 socket	Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications⁵ (only some listed) <ul style="list-style-type: none">• Lenovo® OneKey Recovery• Driver and Application Installation• McAfee® AntiVirus Plus (60 days of virus definitions)• Adobe® Flash® Player• Power Control Switch• CyberLink Power2Go (DVD±RW, BD burner)• Cyberlink PowerDVD (BD burner)• Microsoft Office 2010 preloaded; purchase product key to activate• Windows Live Essentials
Implementation		
Memory	8GB max ⁸ , dual-channel capable, PC3-12800 1600MHz DDR3 , non-parity, two 240-pin DIMM sockets * System automatically clocks down for processors with 1333MHz memory controller	
Graphics	Intel HD Graphics 2000 , integrated graphics in processor, uses main memory, one VGA connector, one HDMI connector, HDCP-compliant	
SATA disk	1TB or 2TB , SATA 6.0Gb/s, 7200 rpm	
mSATA SSD	None	
USM portable disk	Hard disk dock only, supports SATA Universal Storage Module™ (USM) standard, includes USB 3.0 adapter and USB 3.0 cable	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
SATA optical	Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA cables	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)	
Media reader	9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)	
Chipset	Intel H61 Express Chipset	
Front ports	Two USB 2.0, microphone (3.5mm), headphone (3.5mm)	
Rear ports	Four USB 2.0, two USB 3.0 via optional USB 3.0 card on some models, ethernet (RJ-45), monitor (VGA, HDMI)	
Rear audio ports	Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm), High Definition (HD) audio, ALC662 codec	
Audio	None	
Speaker	None	
Wireless	11b/g/n wireless ⁴ , PCIe Half Mini Card, Realtek® RTL8188CE	
Ethernet	Gigabit ethernet on planar, Realtek RTL8111F-VB	
Modem	None	
TV tuner	None	
Remote control	None	
Keyboard	Full-size keyboard (USB connector), Fn keys, black	
Mouse	Optical Wheel Mouse (USB connector), black	
Power supply	280 watts, universal, manual switch	
Machine	<ul style="list-style-type: none">• Metal Gray (metal brush effect)• 6.89" W X 16.10" D X 14.17" H; 175mm W X 409mm D X 360mm H• From 24.6 lb (11.2 kg), weight may vary by configuration• Toolless cover removal• Toolless disk, optical drive removal	Limited Warranty¹ ➤ 1-year parts and labor ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm) ➤ Service upgrade options (in eligible locations):⁹ <ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553) ➤ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686
Bay	Bay ① 5.25", 1.6" high, access, standard optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk Bay ⑤ 3.5", 1" high, access, optional USM portable disk	
Slot	Slot 1: half-length, full-height, PCI Express x16 Ver 2.0 *	
	Slot 2: half-length, full-height, PCI Express x1 Ver 2.0 **	
	Slot 3: half-length, full-height, PCI Express x1 Ver 2.0 **	
	Slot 4: half-length, full-height, PCI Express x1 Ver 2.0 **	
* Graphics adapter in slot on some models, some graphics adapters occupy two slots		
** TV tuner / USB 3.0 card in slot or slot occupied by graphics adapter on some models		

See footnotes for important warranty information
 US model(s) announced July 11, 2012

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 (ROAT2-1) August 2012


Part number	Slot x bay	Pro-processor	GHz	Max turbo (GHz)	Memory ⁸	SATA disk	USM portable disk	SATA optical	Graphics	TV tuner	Remote control	802.11 wireless	Power supply	USB 3.0	Win8 preload	Avail date (mm/yy)
57308927	5x4	i3-3220	3.30		2+4GB	1TB ²	Dock only	DVD±RW	Intel HD 2500	None	None	11b/g/n	280W	USB 3.0	Win8 64	11/12
57308565	5x4	i5-3330	3.00	3.20	4GBx2	1TB	Dock only	DVD±RW	Intel HD 2500	None	None	11b/g/n	280W	USB 3.0	Win8 64	11/12
57308564	5x4	i7-3770	3.40	3.90	4GBx2	2TB	Dock only	DVD±RW	GF GT 620	None	None	11b/g/n	280W	USB 3.0	Win8 64	11/12

- **Power Control Switch; color-coded three-speed switch to easily choose between turbo, auto, and cool running modes**
- **Tool-free chassis design for easy upgrading and maintenance**
- **Optional Universal Storage Module portable HDD and dock**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**

Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) , integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz) Intel Core i5-3330 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache) , Turbo Boost Technology 2.0 (up to 3.20 GHz), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz) Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache) , Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz) Processor in LGA1155 socket	Preloaded operating system ²⁰ - Windows® 8 64-bit Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• Lenovo Cloud Storage by SugarSync• McAfee® Internet Security (30-Day Trial)• Power Control Switch• Adobe® Reader®• Cyberlink PowerDVD (DVD±RW)• Cyberlink Power2Go (DVD±RW)• Microsoft Office preloaded; purchase product key to activate• Intel AppUp®• AccuWeather• Evernote• Kindle• Lenovo Support• Lenovo Companion
Implementation		
Memory	8GB max ⁸ , dual-channel capable, PC3-12800 1600MHz DDR3 , non-parity, two 240-pin DIMM sockets * System automatically clocks down for processors with 1333MHz memory controller	
Graphics	<i>Some:</i> Intel HD Graphics 2500 , integrated graphics in processor, uses main memory, one VGA connector, one HDMI connector, HDCP-compliant <i>Some:</i> NVIDIA® GeForce® GT 620 , PCI Express® x16, 1GB memory, DirectX® 11, one VGA connector, one HDMI connector, HDCP-compliant	
SATA disk	1TB or 2TB , SATA 6.0Gb/s, 7200 rpm	
mSATA SSD	None	
USM portable disk	Hard disk dock only, supports SATA Universal Storage Module™ (USM) standard, includes USB 3.0 adapter and USB 3.0 cable	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset	
SATA optical	Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA cables	Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)	
Media reader	9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)	
Chipset	Intel H61 Express Chipset	
Front ports	Two USB 2.0, microphone (3.5mm), headphone (3.5mm)	
Rear ports	Four USB 2.0, two USB 3.0 via optional USB 3.0 card on some models, ethernet (RJ-45), monitor (VGA, HDMI)	
Rear audio ports	Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm), High Definition (HD) audio, ALC662 codec	
Audio	None	
Speaker	None	
Wireless	11b/g/n wireless ⁴ , PCIe Half Mini Card, Realtek® RTL8188CE	
Ethernet	Gigabit ethernet on planar, Realtek RTL8111F-VB	
Modem	None	
TV tuner	None	
Remote control	None	
Keyboard	Full-size keyboard (USB connector), Fn keys, black	
Mouse	Optical Wheel Mouse (USB connector), black	
Power supply	280 watts, universal, manual switch	
Machine	<ul style="list-style-type: none">• Metal Gray (metal brush effect)• 6.89" W X 16.10" D X 14.17" H; 175mm W X 409mm D X 360mm H• From 24.6 lb (11.2 kg), weight may vary by configuration• Toolless cover removal• Toolless disk, optical drive removal	
Bay	Bay ① 5.25", 1.6" high, access, standard optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk Bay ⑤ 3.5", 1" high, access, optional USM portable disk	
Slot	Slot 1: half-length, full-height, PCI Express x16 Ver 2.0 * Slot 2: half-length, full-height, PCI Express x1 Ver 2.0 ** Slot 3: half-length, full-height, PCI Express x1 Ver 2.0 ** Slot 4: half-length, full-height, PCI Express x1 Ver 2.0 ** * Graphics adapter in slot on some models, some graphics adapters occupy two slots ** TV tuner / USB 3.0 card in slot or slot occupied by graphics adapter on some models	
		Limited Warranty ¹ <ul style="list-style-type: none">➤ 1-year parts and labor➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm)➤ Service upgrade options (in eligible locations):⁹<ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)➤ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686

Type-model	Slot x bay	Pro-cessor	GHz	Max turbo (GHz)	Memory ⁸	SATA disk	USM portable disk	SATA optical	Graphics	TV tuner	Remote control	802.11 wireless	Power supply	Keyboard/ Mouse	Win 7 preload	Avail date (mm/yy)
3109-1MU	5x4	i7-3770	3.40	3.90	4GBx3	2TB ²	Dock only	DVD±RW	GT 545 1.5G	None	None	11b/g/n	450W	USB	Prem 64	07/12
3109-1NU	5x4	i7-3770	3.40	3.90	4GBx2	2TB	Dock only	DVD±RW	GT 620 1G	None	None	11b/g/n	450W	USB	Prem 64	07/12
3109-2FU	5x4	i5-2320	3.00	3.30	4GBx3	2TB	Dock only	DVD±RW	GT 620 1G	None	None	11b/g/n	280W	USB	Prem 64	07/12
3109-2JU	5x4	i7-3770	3.40	3.90	4GBx2	2TB	Dock only	DVD±RW	GT 620 1G	None	None	11b/g/n	280W	USB	Prem 64	07/12
3109-2HU	5x4	i7-3770	3.40	3.90	4GBx3	2TB	Dock only	DVD±RW	GT 545 1.5G	None	None	11b/g/n	280W	USB	Prem 64	07/12

- **Power Control Switch; color-coded three-speed switch to easily choose between turbo, auto, and cool running modes**
- **Tool-free chassis design for easy upgrading and maintenance**
- **Optional Universal Storage Module portable HDD and dock**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**


Processor	Intel® Core™ i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz) Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz) Processor in LGA1155 socket		<div>Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64</div> <div>Preloaded applications⁵ (only some listed)<ul style="list-style-type: none">• Lenovo® OneKey Recovery• Driver and Application Installation• McAfee® AntiVirus Plus (60 days of virus definitions)• Adobe® Flash® Player• Power Control Switch• CyberLink Power2Go (DVD±RW, BD burner)• Cyberlink PowerDVD (BD burner)• Microsoft Office 2010 preloaded; purchase product key to activate• Windows Live Essentials</div> <div></div> <div>Limited Warranty¹<ul style="list-style-type: none">➤ 1-year parts and labor➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm)➤ Service upgrade options (in eligible locations):⁹<ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)➤ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686</div>
Implementation			
Memory	32GB max ⁸ , dual-channel capable, PC3-12800 1600MHz DDR3 , non-parity, four 240-pin DIMM sockets * System automatically clocks down for processors with 1333MHz memory controller		
Graphics	<i>Some:</i> NVIDIA® GeForce® GT 620 , PCI Express® x16, 1GB memory, DirectX® 11, one VGA connector, one HDMI connector, HDCP-compliant <i>Some:</i> NVIDIA GeForce GT 545 , PCI Express x16, 1.5GB memory, DirectX 11, one VGA connector, one DVI-I connector, one HDMI connector, HDCP-compliant		
SATA disk	2TB , SATA 6.0Gb/s, 7200 rpm		
mSATA SSD	None		
USM portable disk	Hard disk dock only, supports SATA Universal Storage Module™ (USM) standard, includes USB 3.0 adapter and USB 3.0 cable		
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0 support		
SATA optical	Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA cables	Two SATA cables (each 1-drop to device), two SATA 3.0Gb/s connectors, two SATA 6.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)		
Media reader	9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)		
Chipset	Intel Z75 Express Chipset		
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)		
Rear ports	Four USB 2.0, ethernet (RJ-45), monitor (VGA, HDMI, DVI-I on selected models) * Onboard VGA and HDMI connectors are disabled on discrete models		
Rear audio ports	Line-in (3.5mm), line-out [Front out L/R] (3.5mm), microphone-in (3.5mm), Cen/LFE (3.5mm), Surround out L/R (3.5mm), S/PDIF out		
Audio	High Definition (HD) audio, ALC892 codec		
Speaker	None		
Wireless	11b/g/n wireless ⁴ , PCIe Half Mini Card, Realtek® RTL8188CE		
Ethernet	Gigabit ethernet on planar, Realtek RTL8111E		
Modem	None		
TV tuner	None		
Remote control	None		
Keyboard	Full-size keyboard (USB connector), Fn keys, black		
Mouse	Optical Wheel Mouse (USB connector), black		
Power supply	<i>Some:</i> 280 watts, universal, manual switch <i>Some:</i> 450 watts, universal, manual switch		
Machine	<ul style="list-style-type: none">• Metal Gray (metal brush effect)• 6.89" W X 16.10" D X 14.17" H; 175mm W X 409mm D X 360mm H• From 24.6 lb (11.2 kg), weight may vary by configuration• Toolless cover removal• Toolless disk, optical drive removal		
Bay	Bay ① 5.25", 1.6" high, access, standard optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk Bay ⑤ 3.5", 1" high, access, optional USM portable disk		
Slot	Slot 1: half-length, full-height, PCI Express x16 Ver 3.0 * Slot 2: half-length, full-height, PCI Express x1 Ver 2.0 ** Slot 3: half-length, full-height, PCI Express x16 Ver 3.0 * Slot 4: half-length, full-height, PCI Express x1 Ver 2.0 ** * Graphics adapter in slot on some models, some graphics adapters occupy two slots ** TV tuner in slot or slot occupied by graphics adapter on some models		

See footnotes for important warranty information
 US model(s) announced July 11, 2012

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 (ROAT-1-1) July 2012

Part number	Slot x bay	Pro-cessor	Memory ⁸	SATA disk	USM portable disk	SATA optical	Graphics	TV tuner	Remote control	802.11 wireless	Power supply	Keyboard/ Mouse	Win8 preload	Avail date (mm/yy)
57308924	5x4	i5-3350P	4GBx3	1TB (RAID 0)	Dock only	DVD±RW	GT 620 1G	None	None	11b/g/n	280W	USB	Win8 64	11/12
57308925	5x4	i7-3770	4GBx3	2TB	Dock only	DVD±RW	GT 640 2G	None	None	11b/g/n	280W	USB	Win8 64	11/12
57311934	5x4	i7-3770	4GBx4	2TB	Dock only	DVD±RW	HD 7750 1G	None	None	11b/g/n	280W	USB	Win8 64	11/12

- **Power Control Switch; color-coded three-speed switch to easily choose between turbo, auto, and cool running modes**
- **Tool-free chassis design for easy upgrading and maintenance**
- **Optional Universal Storage Module portable HDD and dock**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**


Processor	Intel® Core™ i5-3350P Processor (4 cores / 4 threads, 3.10 GHz, 6M Cache) , Turbo Boost Technology 2.0 (up to 3.30 GHz), DDR3 memory controller (up to 1600MHz) Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache) , Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz) Processor in LGA1155 socket	<div>Preloaded operating system²⁰ - Windows® 8 64-bit</div> <div>Preloaded applications¹⁴ (only some listed)<ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• Lenovo Cloud Storage by SugarSync• McAfee® Internet Security (30-Day Trial)• Power Control Switch• Adobe® Reader®• Nitro PDF• Cyberlink PowerDVD (DVD±RW)• Cyberlink Power2Go (DVD±RW)• Microsoft Office preloaded; purchase product key to activate• Intel AppUp®• AccuWeather• Evernote• Kindle• Lenovo Support• Lenovo Companion</div> <div></div> <div>Limited Warranty¹<ul style="list-style-type: none">➤ 1-year parts and labor➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm)➤ Service upgrade options (in eligible locations):⁹<ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)➤ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686</div>
Implementation		
Memory	32GB max ⁸ , dual-channel capable, PC3-12800 1600MHz DDR3 , non-parity, four 240-pin DIMM sockets * System automatically clocks down for processors with 1333MHz memory controller	
Graphics	<i>Some:</i> NVIDIA® GeForce® GT 620 , PCI Express® x16, 1GB DDR3, DirectX® 11, one VGA connector, one HDMI connector, HDCP-compliant <i>Some:</i> NVIDIA GeForce GT 640 , PCI Express x16, 2GB DDR3, DirectX 11, one VGA connector, one HDMI connector, HDCP-compliant <i>Some:</i> AMD Radeon™ HD 7750 , PCI Express x16, 1GB GDDR5, DirectX 11, one DisplayPort™ connector, one DVI-I connector, one HDMI connector, HDCP	
SATA disk	1TB (500GB x 2, preset RAID 0) or 2TB (2TB x 1), SATA 6.0Gb/s, 7200 rpm	
mSATA SSD	None	
USM portable disk	Hard disk dock only, supports SATA Universal Storage Module™ (USM) standard, includes USB 3.0 adapter and USB 3.0 cable	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0 support	
SATA optical	Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA cables	Two SATA cables (each 1-drop to device), two SATA 3.0Gb/s connectors, two SATA 6.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)	
Media reader	9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)	
Chipset	Intel Z75 Express Chipset	
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	
Rear ports	Four USB 2.0, ethernet (RJ-45), monitor* (VGA, HDMI, DVI-I, or DisplayPort, depends on graphics card) * Onboard VGA and HDMI connectors are disabled on discrete models	
Rear audio ports	Line-in (3.5mm), line-out [Front out L/R] (3.5mm), microphone-in (3.5mm), Cen/LFE (3.5mm), Surround out L/R (3.5mm), S/PDIF out	
Audio	High Definition (HD) audio, ALC892 codec	
Speaker	None	
Wireless	11b/g/n wireless ⁴ , PCIe Half Mini Card, Realtek® RTL8188CE	
Ethernet	Gigabit ethernet on planar, Realtek RTL8111E	
Modem	None	
TV tuner	None	
Remote control	None	
Keyboard	Full-size keyboard (USB connector), Fn keys, black	
Mouse	Optical Wheel Mouse (USB connector), black	
Power supply	280 watts, universal, manual switch	
Machine	<ul style="list-style-type: none">• Metal Gray (metal brush effect)• 6.89" W X 16.10" D X 14.17" H; 175mm W X 409mm D X 360mm H• From 24.6 lb (11.2 kg), weight may vary by configuration• Toolless cover removal• Toolless disk, optical drive removal	
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Slot	Slot 1: half-length, full-height, PCI Express x16 Ver 3.0 * Slot 2: half-length, full-height, PCI Express x1 Ver 2.0 ** Slot 3: half-length, full-height, PCI Express x16 Ver 3.0 * Slot 4: half-length, full-height, PCI Express x1 Ver 2.0 ** * Graphics adapter in slot on some models, some graphics adapters occupy two slots ** TV tuner in slot or slot occupied by graphics adapter on some models	

See footnotes for important warranty information
 US model(s) announced November 28, 2012

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 (ROAT1-3) November 2012

Part number	Slot x bay	Processor	Memory ⁸	SATA disk	USM portable disk	SATA optical	Graphics	TV tuner	Remote control	802.11 wireless	Power supply	Keyboard/ Mouse	Win8 preload	Avail date (mm/yy)
57312227	5x4	i7-3770	4GBx4	2TB, 7200 rpm	None	BD burner	HD 7570 2G	None	None		625W	2.4G	Win8 64	02/13
57312225	5x4	i7-3770	4GBx4	2TB, 7200 rpm	500GB	DVD±RW	GT 630 2G	None	None	11b/g/n	625W	2.4G	Win8 64	03/13

- **Power Control Switch; color-coded three-speed switch to easily choose between turbo, auto, and cool running modes**
- **Tool-free chassis design for easy upgrading and maintenance**
- **Optional Universal Storage Module portable HDD and dock**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**

Processor	Intel® Core™ i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz)		Preloaded operating system ²⁰ - Windows® 8 64-bit
Implementation	Processor in LGA1155 socket		
Memory	32GB max ⁸ , dual-channel capable, PC3-12800 1600MHz DDR3 , non-parity, four 240-pin DIMM sockets * System automatically clocks down for processors with 1333MHz memory controller		Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• Lenovo Cloud Storage by SugarSync• McAfee® Internet Security (30-Day Trial)• Power Control Switch• Adobe® Reader®• Nitro PDF• Cyberlink PowerDVD• Cyberlink Power2Go• Microsoft Office preloaded; purchase product key to activate• Intel AppUp®• AccuWeather• Evernote• Kindle• Lenovo Support• Lenovo Companion
Graphics	<i>Some:</i> AMD Radeon™ HD 7570 , PCI Express x16, 2GB memory, DirectX® 11, occupy two slots, one VGA connector, one HDMI connector, HDCP-compliant <i>Some:</i> NVIDIA GeForce GT 630 , PCI Express x16, 2GB DDR3, DirectX 11, one VGA connector, one HDMI connector, HDCP-compliant		
SATA disk	2TB (2TB x 1), SATA 6.0Gb/s, 7200 rpm		
mSATA SSD	None		
USM portable disk	<i>Some:</i> 500GB portable hard disk, supports SATA Universal Storage Module™ (USM) standard, includes USB 3.0 adapter and USB 3.0 cable		
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0 support		
SATA optical	Blu-ray™ burner, Blu-ray and DVD disk recordable		
SATA cables	Two SATA cables (each 1-drop to device), two SATA 3.0Gb/s connectors, two SATA 6.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)		
Media reader	9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)		
Chipset	Intel Z75 Express Chipset		
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)		
Rear ports	Four USB 2.0, ethernet (RJ-45), monitor* (VGA, HDMI, DVI-I, or DisplayPort, depends on graphics card) * Onboard VGA and HDMI connectors are disabled on discrete models		
Rear audio ports	Line-in (3.5mm), line-out [Front out L/R] (3.5mm), microphone-in (3.5mm), Cen/LFE (3.5mm), Surround out L/R (3.5mm), S/PDIF out		
Audio	High Definition (HD) audio, ALC892 codec		
Speaker	None		
Wireless	<i>Some:</i> 11b/g/n wireless ⁴ , PCIe Half Mini Card, Realtek® RTL8188CE		
Ethernet	Gigabit ethernet on planar, Realtek RTL8111E		
Modem	None		
TV tuner	None		
Remote control	None		
Keyboard	2.4G wireless full-size keyboard, 6-row, black		
Mouse	2.4G wireless mouse, black		
Power supply	625 watts, universal, manual switch		
Machine	<ul style="list-style-type: none">• Metal Gray (metal brush effect)• 6.89" W X 16.10" D X 14.17" H; 175mm W X 409mm D X 360mm H• From 24.6 lb (11.2 kg), weight may vary by configuration• Toolless cover removal• Toolless disk, optical drive removal		
Bay	Bay ① 5.25", 1.6" high, access, standard optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk Bay ⑤ 3.5", 1" high, access, optional USM portable disk		
Slot	Slot 1: half-length, full-height, PCI Express x16 Ver 3.0 * Slot 2: half-length, full-height, PCI Express x1 Ver 2.0 ** Slot 3: half-length, full-height, PCI Express x16 Ver 3.0 * Slot 4: half-length, full-height, PCI Express x1 Ver 2.0 ** * Graphics adapter in slot on some models, some graphics adapters occupy two slots ** TV tuner in slot or slot occupied by graphics adapter on some models		

See footnotes for important warranty information

US model(s) announced March 6, 2013; previous model(s) on February 21, 2013

 © Lenovo
(ROAT1-4) March 2013

Type-model	Slot x bay	Pro-cessor	GHz	Max turbo (GHz)	Memory ⁸	SATA disk	USM portable disk	SATA optical	Graphics	TV tuner	Remote control	802.11 wireless	Power supply	Keyboard/ Mouse	Win 7 preload	Avail date (mm/yy)
3109-2XU	5x4	i3-2120	3.30		2GBx3	1TB ²	None	DVD±RW	HD 7450 1G	None	None	None	280W	USB	Prem 64	07/12
3109-3AU	5x4	i5-2320	3.00	3.30	4GBx3	1TB	None	DVD±RW	HD 7450 1G	None	None	None	280W	USB	Prem 64	07/12
3109-3CU	5x4	i5-2320	3.00	3.30	4GBx4	2TB	None	BD burner	GT 620 1G	None	None	None	280W	USB	Prem 64	07/12
3109-2SU	5x4	i7-3770	3.40	3.90	4GBx4	2TB	None	BD burner	GT 545 1.5G	None	None	None	280W	USB	Prem 64	07/12
3109-2RU	5x4	i7-3770	3.40	3.90	8GBx3	2TB	None	BD burner	HD 7570 2G	None	None	None	280W	USB	Pro 64	12/12

- **Power Control Switch; color-coded three-speed switch to easily choose between turbo, auto, and cool running modes**
- **Tool-free chassis design for easy upgrading and maintenance**
- **Optional Universal Storage Module portable HDD and dock**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz) Intel Core i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz) Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz) Processor in LGA1155 socket										Preloaded operating system²⁰ - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 Preloaded applications⁵ (only some listed) • Lenovo® OneKey Recovery • Driver and Application Installation • McAfee® AntiVirus Plus (60 days of virus definitions) • Adobe® Flash® Player • Power Control Switch • CyberLink Power2Go (DVD±RW, BD burner) • Cyberlink PowerDVD (BD burner) • Microsoft Office 2010 preloaded; purchase product key to activate • Windows Live Essentials					
Implementation	Processor in LGA1155 socket															
Memory	32GB max ⁸ , dual-channel capable, PC3-12800 1600MHz DDR3 , non-parity, four 240-pin DIMM sockets * System automatically clocks down for processors with 1333MHz memory controller															
Graphics	<i>Some:</i> NVIDIA® GeForce® GT 620 , PCI Express® x16, 1GB memory, DirectX® 11, one VGA connector, one HDMI connector, HDCP-compliant <i>Some:</i> NVIDIA GeForce GT 545 , PCI Express x16, 1.5GB memory, DirectX 11, one VGA connector, one DVI-I connector, one HDMI connector, HDCP-compliant <i>Some:</i> AMD Radeon™ HD 7450 , PCI Express x16, 1GB memory, DirectX 11, occupy two slots, one VGA connector, one HDMI connector, HDCP-compliant <i>Some:</i> AMD Radeon™ HD 7570 , PCI Express x16, 2GB memory, DirectX 11, occupy two slots, one VGA connector, one HDMI connector, HDCP-compliant															
SATA disk	1TB or 2TB , SATA 6.0Gb/s, 7200 rpm															
mSATA SSD	None															
USM portable disk	None															
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0 support															
SATA optical	<i>Some:</i> Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive <i>Some:</i> Blu-ray™ burner, Blu-ray and DVD disk recordable															
SATA cables	Two SATA cables (each 1-drop to device), two SATA 3.0Gb/s connectors, two SATA 6.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)															
Media reader	9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)															
Chipset	Intel Z75 Express Chipset															
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)															
Rear ports	Four USB 2.0, ethernet (RJ-45), monitor (VGA, HDMI, DVI-I on selected models) * Onboard VGA and HDMI connectors are disabled on discrete models															
Rear audio ports	Line-in (3.5mm), line-out [Front out L/R] (3.5mm), microphone-in (3.5mm), Cen/LFE (3.5mm), Surround out L/R (3.5mm), S/PDIF out															
Audio	High Definition (HD) audio, ALC892 codec															
Speaker	None															
Wireless	None															
Ethernet	Gigabit ethernet on planar, Realtek RTL8111E															
Modem	None															
TV tuner	None															
Remote control	None															
Keyboard	Full-size keyboard (USB connector), Fn keys, black															
Mouse	Optical Wheel Mouse (USB connector), black															
Power supply	280 watts, universal, manual switch															
Machine	<ul style="list-style-type: none"> • Metal Gray (metal brush effect) • 6.89" W X 16.10" D X 14.17" H; 175mm W X 409mm D X 360mm H • From 24.6 lb (11.2 kg), weight may vary by configuration • Toolless cover removal • Toolless disk, optical drive removal 															
Bay	Bay ① 5.25", 1.6" high, access, standard optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk Bay ⑤ 3.5", 1" high, access, optional USM portable disk															
Slot	Slot 1: half-length, full-height, PCI Express x16 Ver 3.0 * Slot 2: half-length, full-height, PCI Express x1 Ver 2.0 ** Slot 3: half-length, full-height, PCI Express x16 Ver 3.0 * Slot 4: half-length, full-height, PCI Express x1 Ver 2.0 ** * Graphics adapter in slot on some models, some graphics adapters occupy two slots ** TV tuner in slot or slot occupied by graphics adapter on some models															


Limited Warranty¹

- ⇒ **1-year parts and labor**
- ⇒ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm)**
- ⇒ **Service upgrade options (in eligible locations):⁹**
 - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
 - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- ⇒ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686**

See footnotes for important warranty information

Ⓢ US model(s) announced December 13, 2012; previous model(s) on July 11, 2012

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(ROAT1-2) December 2012



Lenovo IdeaCentre A520
with optional keyboard and mouse



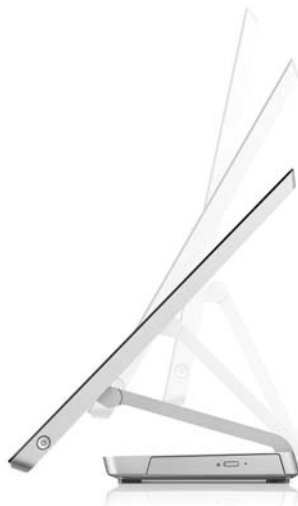
Lenovo IdeaCentre A520
(Some ports only for selected models)



Lenovo IdeaCentre A520



Lenovo IdeaCentre A520



Lenovo IdeaCentre A520



Lenovo IdeaCentre A520

Part number	Processor	Memory	Widescreen display	Multi-Touch screen	Graphics	SATA disk	mSATA SSD	SATA optical	PCIe Mini Card 802.11	TV tuner	Remote control	AC adapter	Keyboard/Mouse	Win8 preload	Avail date (mm/yy)
57312891	i3-3130M	4GBx1	23" FHD	Multi	Intel HD 4000	1TB	None	DVD±RW	11b/g/n ²⁸	None	None	120W	2.4G	Win8 64	02/13

- **Ultra slim 23" All-In-One PC with a frameless display**
- **10-point multi-touch technology for greater accuracy**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)**
- **Widely adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort**

Processor	Intel® Core™ i3-3130M processor (2 cores / 4 threads, 2.60 GHz, 3MB cache), DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 4000	Preloaded operating system ²⁰ - Windows® 8 64-bit Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• Lenovo Cloud Storage by SugarSync• Lenovo Eye Distance System• CyberLink YouCam• Dolby Home Theater• McAfee® Internet Security (30-Day Trial)• Cyberlink Power2Go (DVD±RW, BD player)• Adobe® Reader®• Nitro PDF• Cyberlink PowerDVD® (DVD±RW, BD player)• Touch Games (Touch models)• Education Portal• Microsoft Office preloaded; purchase product key to activate• Intel AppUp®• AccuWeather• eBay• Evernote• Amazon Kindle• Lenovo Support• Rara Streaming• Lenovo Companion 120-watt or 150-watt AC adapter ENERGY STAR® qualified RoHS-compliant
Memory	8GB max ⁷ / 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	
SATA optical	DVD burner, dual-layer support, not removable, 12.7mm high, tray-in	
SATA disk	1TB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
mSATA™ SSD	None	
Widescreen display	23" (584.2mm) Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, Frameless design, IPS panel , 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, Viewing angle: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical	
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch	
Camera	HD 720p Camera on top of screen, fixed focus, with digital microphone	
Controls	Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down	
Graphics	Intel HD Graphics 4000 , integrated in processor, uses main memory, DirectX® 11	
Chipset	Mobile Intel HM76 Express Chipset	
Multicard reader	6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)	
Ports	<i>Rear:</i> Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some model, microphone (3.5 mm), headphone (3.5 mm) <i>Side:</i> One USB 3.0, HDMI in, HDMI out	
PCIe Mini Card	Two PCI Express Mini Card slots	
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek® RTL8188CUS, via internal USB	
TV tuner	None	
Bluetooth™	Bluetooth 4.0 wireless	
Modem	None	
Ethernet	Gigabit ethernet on planar, Realtek® RTL8111F	
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / Dolby® Home Theater® v4 audio enhancement, stereo speakers (3 watt x 2)	
Security	Power-on password, administrator password	
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, silver	
Mouse	2.4G wireless Laser Wheel Mouse, 1200dpi, silver	
Remote control	None	
Dimensions ³	(WxHxD): 22.35" x 17.4" x 8.9"; 567.8mm x 441.5mm x 224.8mm <i>Monitor only (WxHxD):</i> 22.35" x 13.9" x 0.96"; 567.8mm x 353.0mm x 24.5mm <i>Base only (WxHxD):</i> 13.3" x 1.3" x 8.3"; 337mm x 32mm x 210.8mm	
Weight ²	21.60 lb (9.8kg), weight may vary by configuration	
Chassis	Silver color; metal shell (Aluminium base cover and hinge), plastic back cover	
Stand	Adjustable stand (between -5° and 90°)	
Wall mount	None	
Security lock	Kensington® Security slot on the rear of base	
		Limited Warranty ¹² <ul style="list-style-type: none">⇒ 1-year parts and labor⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)⇒ Service upgrade options (in eligible locations):⁹<ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)⇒ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686

See footnotes for important warranty information
US model(s) announced February 21, 2013

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IdeaCentre™ A520 (Windows 8) - web only models

Personal Systems Reference (PSREF)

Part number	Processor	Memory	Widescreen display	Multi-Touch screen	Graphics	SATA disk	mSATA SSD	SATA optical	PCIe Mini Card 802.11	TV tuner	Remote control	AC adapter	Keyboard/Mouse	Win8 preload	Avail date (mm/yy)
57308316	i3-2328M	4GBx1	23" FHD	Multi	Intel HD 3000	500GB	None	BD player	11b/g/n ²⁸	None	None	120W	2.4G	Win8 64	03/13

- **Ultra slim 23" All-In-One PC with a frameless display**
- **10-point multi-touch technology for greater accuracy**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)**
- **Widely adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort**

Processor	Intel® Core™ i3-2328M processor (2 cores / 4 threads, 2.20 GHz, 3MB cache), DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics 3000	Preloaded operating system ²⁰ - Windows® 8 64-bit Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• Lenovo Cloud Storage by SugarSync• Lenovo Eye Distance System• CyberLink YouCam• Dolby Home Theater• McAfee® Internet Security (30-Day Trial)• Cyberlink Power2Go (DVD±RW, BD player)• Adobe® Reader®• Nitro PDF• Cyberlink PowerDVD® (DVD±RW, BD player)• Touch Games (Touch models)• Education Portal• Microsoft Office preloaded; purchase product key to activate• Intel AppUp®• AccuWeather• eBay• Evernote• Amazon Kindle• Lenovo Support• Rara Streaming• Lenovo Companion 120-watt or 150-watt AC adapter ENERGY STAR® qualified RoHS-compliant
Memory	8GB max ⁷ / 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	
SATA Blu-ray™	Blu-ray disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, tray-in	
SATA disk	500GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
mSATA™ SSD	None	
Widescreen display	23" (584.2mm) Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, Frameless design, IPS panel , 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, Viewing angle: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical	
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch	
Camera	HD 720p Camera on top of screen, fixed focus, with digital microphone	
Controls	Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down	
Graphics	Intel HD Graphics 3000 , integrated in processor, uses main memory, DirectX® 10.1	
Chipset	Mobile Intel HM76 Express Chipset	
Multicard reader	6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)	
Ports	<i>Rear:</i> Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some model, microphone (3.5 mm), headphone (3.5 mm) <i>Side:</i> One USB 3.0, HDMI in, HDMI out	
PCIe Mini Card	Two PCI Express Mini Card slots	
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek® RTL8188CUS, via internal USB	
TV tuner	None	
Bluetooth™	Bluetooth 4.0 wireless	
Modem	None	
Ethernet	Gigabit ethernet on planar, Realtek® RTL8111F	
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / Dolby® Home Theater® v4 audio enhancement, stereo speakers (3 watt x 2)	
Security	Power-on password, administrator password	Limited Warranty ¹² <ul style="list-style-type: none">⇒ 1-year parts and labor⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)⇒ Service upgrade options (in eligible locations):⁹<ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)⇒ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, silver	
Mouse	2.4G wireless Laser Wheel Mouse, 1200dpi, silver	
Remote control	None	
Dimensions ³	<i>(WxHxD):</i> 22.35" x 17.4" x 8.9"; 567.8mm x 441.5mm x 224.8mm <i>Monitor only (WxHxD):</i> 22.35" x 13.9" x 0.96"; 567.8mm x 353.0mm x 24.5mm <i>Base only (WxHxD):</i> 13.3" x 1.3" x 8.3"; 337mm x 32mm x 210.8mm	
Weight ²	21.60 lb (9.8kg), weight may vary by configuration	
Chassis	Silver color; metal shell (Aluminium base cover and hinge), plastic back cover	
Stand	Adjustable stand (between -5° and 90°)	
Wall mount	None	
Security lock	Kensington® Security slot on the rear of base	

See footnotes for important warranty information
US model(s) announced March 27, 2013

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(CUBA1-2) March 2013



Lenovo IdeaCentre A720



Lenovo IdeaCentre A720



Lenovo IdeaCentre A720
with optional 3-in-1 mouse



Lenovo IdeaCentre A720



Lenovo IdeaCentre A720



Lenovo IdeaCentre A720

Type-model	Processor	Memory	Widescreen display	Multi-Touch screen	Graphics	SATA disk	mSATA SSD	SATA optical	PCIe Mini Card 802.11	TV tuner	Remote control	AC adapter	Keyboard/Mouse	Win7 preload	Avail date (mm/yy)
2564-3FU	i5-3210M	4+2GB	27" FHD	Multi	GT 630M 1GB	500GB	None	BD player	11b/g/n ²⁸	ATSC	IR remote	150W	2.4G	Prem 64	07/12
2564-2FU	i7-3610QM	4GBx2	27" FHD	Multi	GT 630M 1GB	750GB	None	BD player	11b/g/n	ATSC	IR remote	150W	2.4G	Prem 64	07/12

- **Ultra slim 27" All-In-One PC with a frameless display; from just 24.5mm thin***
- **10-point multi-touch technology for greater accuracy**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)**
- **Widely adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort**
- **These system are Microsoft® Office 2010 Product Key Ready (O10PKR)**

* Measured at thinnest point

Processor	Intel® Core™ i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000 Intel Core i7-3610QM processor (4 cores / 8 threads, 2.30 GHz, 6MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.30GHz), integrated Intel HD Graphics 4000										Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none"> • Lenovo® Rescue System • Driver and Application Installation • CyberLink YouCam • Skype • Dolby Home Theater • Lenovo Camera Fun Zone • McAfee® Internet Security (30-Day Trial) • Cyberlink Power2Go (DVD±RW, BD player) • Cyberlink PowerDVD® (BD player) • Lenovo IdeaTouch (Touch models) <ul style="list-style-type: none"> – PowerCinema – Lenovo VeriTouch – PhotoStudio Paint – Lenovo Ebook and Quick Notes • Touch Games (Touch models) <ul style="list-style-type: none"> – Angry Birds – Fruit Ninja – Snowflake Games (Air Hockey, Bugs, Card Collect, Piano, and Wong) • Windows Live Essentials • Microsoft Office 2010 preloaded; purchase product key to activate 				
Memory	8GB max ⁷ / 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														
SATA Blu-ray™	Blu-ray disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, slot-in														
SATA disk	500GB (5400 rpm) or 750GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
mSATA™ SSD	None														
Widescreen display	27" (685.8mm) Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, Frameless design, VA (Vertical Alignment) technology, 300 nits, 16:9 aspect ratio, 5000:1 contrast ratio														
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch														
Camera	HD 720p Camera on top of screen, supports H.264 encoding, Skype™ certified, fixed focus, with digital microphone														
Controls	Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down														
Graphics	NVIDIA GeForce® GT 630M , PCI Express® x16, 1GB or 2GB DDR3 memory, DirectX® 11, NVIDIA CUDA™ technology														
Chipset	Mobile Intel HM76 Express Chipset														
Multicard reader	6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)														
Ports	Rear: Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some model, microphone (3.5 mm), headphone (3.5 mm) Side: One USB 3.0, HDMI in, HDMI out														
PCIe Mini Card	Two PCI Express Mini Card slots														
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek® RTL8188CUS, via internal USB														
TV tuner	ATSC tuner, supports analog and digital signal, PCIe Mini Card														
Bluetooth™	Bluetooth 2.1 wireless + EDR														
Modem	None														
Ethernet	Gigabit ethernet on planar, Realtek® RTL8111F														
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / Dolby® Home Theater® v4 audio enhancement, stereo speakers (3 watt x 2)														
Security	Power-on password, administrator password														
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, silver														
Mouse	2.4G wireless Laser Wheel Mouse, 1200dpi, silver														
Remote control	MCE remote control, via IR														
Dimensions ³	(WxHxD): 25.9" x 19.3" x 8.9"; 658mm x 490.5mm x 224.8mm Monitor only (WxHxD): 25.9" x 15.8" x 0.98"; 658mm x 402mm x 24.9mm Base only (WxHxD): 13.3" x 1.3" x 8.3"; 337mm x 32mm x 210.8mm 25.52 lb (11.6kg), weight may vary by configuration														
Weight ²															
Chassis	Silver color; metal shell (Aluminium base and hinge), plastic back cover														
Stand	Adjustable stand (between -5° and 90°)														
Wall mount	None														
Security lock	Kensington® Security slot on the rear of base														

See footnotes for important warranty information
 US model(s) announced July 11, 2012

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Limited Warranty¹²

- ⇒ **1-year parts and labor**
- ⇒ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- ⇒ **Service upgrade options (in eligible locations):⁹**
 - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
 - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- ⇒ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686**

Part number	Processor	Memory	Widescreen display	Multi-Touch screen	Graphics	SATA disk	mSATA SSD	SATA optical	PCIe Mini Card 802.11	TV tuner	Remote control	AC adapter	Keyboard/Mouse	Win8 preload	Avail date (mm/yy)
57308559	i5-3210M	4+2GB	27" FHD	Multi	GT 630M 1GB	750GB	None	BD player	11b/g/n ²⁸	None	None	150W	2.4G	Win8 64	11/12
57308558	i7-3630QM	4GBx2	27" FHD	Multi	GT 630M 1GB	1TB	None	BD player	11b/g/n	None	None	150W	2.4G	Win8 64	11/12
57313504	i5-3230M	4+2GB	27" FHD	Multi	GT 630M 1GB	750GB	None	BD player	11b/g/n	None	None	150W	2.4G	Win8 64	02/13

- **Ultra slim 27" All-In-One PC with a frameless display; from just 24.5mm thin***
- **10-point multi-touch technology for greater accuracy**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)**
- **Widely adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort**

* Measured at thinnest point

Processor	Intel® Core™ i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache) , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000 Intel Core i5-3230M processor (2 cores / 4 threads, 2.60 GHz, 3MB cache) , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz), integrated Intel HD Graphics 4000 Intel Core i7-3630QM processor (4 cores / 8 threads, 2.40GHz, 6MB cache) , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.40GHz), integrated Intel HD Graphics 4000										Preloaded operating system²⁰ - Windows® 8 64-bit Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none"> • Lenovo® Rescue System • Driver and Application Installation • Lenovo Cloud Storage by SugarSync • CyberLink YouCam • Dolby Home Theater • McAfee® Internet Security (30-Day Trial) • Cyberlink Power2Go (DVD±RW, BD player) • Adobe® Reader® • Nitro PDF • Cyberlink PowerDVD® (BD player) • Touch Games (Touch models) • Education Portal • Microsoft Office preloaded; purchase product key to activate • Intel AppUp® • AccuWeather • eBay • Evernote • Skype • Amazon Kindle • Lenovo Support • Rara Streaming • Lenovo Companion 				
Memory	8GB max ⁷ / 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														
SATA Blu-ray™	Blu-ray disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, slot-in														
SATA disk	750GB (5400 rpm) or 1TB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
mSATA™ SSD	None														
Widescreen display	27" (685.8mm) Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, Frameless design, VA (Vertical Alignment) technology, 300 nits, 16:9 aspect ratio, 5000:1 contrast ratio														
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch														
Camera	HD 720p Camera on top of screen, supports H.264 encoding, Skype™ certified, fixed focus, with digital microphone														
Controls	Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down														
Graphics	NVIDIA GeForce® GT 630M , PCI Express® x16, 1GB or 2GB DDR3 memory, DirectX® 11, NVIDIA CUDA™ technology														
Chipset	Mobile Intel HM76 Express Chipset														
Multicard reader	6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)														
Ports	Rear: Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some model, microphone (3.5 mm), headphone (3.5 mm) Side: One USB 3.0, HDMI in, HDMI out														
PCIe Mini Card	Two PCI Express Mini Card slots														
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek® RTL8188CUS, via internal USB														
TV tuner	None														
Bluetooth™	Bluetooth 4.0 wireless														
Modem	None														
Ethernet	Gigabit ethernet on planar, Realtek® RTL8111F														
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / Dolby® Home Theater® v4 audio enhancement, stereo speakers (3 watt x 2)														
Security	Power-on password, administrator password														
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, silver														
Mouse	2.4G wireless Laser Wheel Mouse, 1200dpi, silver														
Remote control	None														
Dimensions ³	(WxHxD): 25.9" x 19.3" x 8.9"; 658mm x 490.5mm x 224.8mm Monitor only (WxHxD): 25.9" x 15.8" x 0.98"; 658mm x 402mm x 24.9mm Base only (WxHxD): 13.3" x 1.3" x 8.3"; 337mm x 32mm x 210.8mm 25.52 lb (11.6kg), weight may vary by configuration														
Weight ²	Silver color; metal shell (Aluminium base and hinge), plastic back cover														
Chassis	Adjustable stand (between -5° and 90°)														
Stand	None														
Wall mount	None														
Security lock	Kensington® Security slot on the rear of base														

See footnotes for important warranty information

☞ US model(s) announced February 21, 2013; previous model(s) on November 28, 2012

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(COBR1-3) February 2013

Limited Warranty¹²

☞ **1-year parts and labor**

☞ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**

☞ **Service upgrade options (in eligible locations):⁹**

- **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
- **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**

☞ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686**

Type-model	Processor	Memory	Widescreen display	Multi-Touch screen	Graphics	SATA disk	mSATA SSD	SATA optical	PCIe Mini Card 802.11	TV tuner	Remote control	AC adapter	Keyboard/Mouse	Win7 preload	Avail date (mm/yy)
2564-5CU	i7-3610QM	4GBx2	27" FHD	Multi	GT 630M 2GB	1TB		BD player	11b/g/n ²⁸	ATSC	IR remote	150W	2.4G	Prem 64	06/12
2564-6CU	i7-3610QM	4GBx2	27" FHD	Multi	GT 630M 2GB	1TB		BD player	11b/g/n	ATSC	IR remote	150W	2.4G	Prem 64	06/12
2564-7CU	i7-3610QM	4GBx2	27" FHD	Multi	GT 630M 2GB	1TB	64GB	BD player	11b/g/n	ATSC	IR remote	150W	2.4G	Prem 64	06/12
2564-3CU	i7-3610QM	4GBx2	27" FHD	Multi	GT 630M 1GB	1TB		DVD±RW	11b/g/n			150W	2.4G	Prem 64	07/12

- **Ultra slim 27" All-In-One PC with a frameless display; from just 24.5mm thin***
- **10-point multi-touch technology for greater accuracy**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)**
- **Widely adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort**
- **These system are Microsoft® Office 2010 Product Key Ready (O10PKR)**

* Measured at thinnest point

Processor	Intel® Core™ i7-3610QM processor (4 cores / 8 threads, 2.30 GHz, 6MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.30GHz), integrated Intel HD Graphics 4000	Preloaded operating system ²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• CyberLink YouCam• Skype• Dolby Home Theater• Lenovo Camera Fun Zone• McAfee® Internet Security (30-Day Trial)• Cyberlink Power2Go (DVD±RW, BD player)• Cyberlink PowerDVD® (BD player)• Lenovo IdeaTouch (Touch models)<ul style="list-style-type: none">– PowerCinema– Lenovo VeriTouch– PhotoStudio Paint– Lenovo Ebook and Quick Notes• Touch Games (Touch models)<ul style="list-style-type: none">– Angry Birds– Fruit Ninja– Snowflake Games (Air Hockey, Bugs, Card Collect, Piano, and Wong)• Windows Live Essentials• Microsoft Office 2010 preloaded; purchase product key to activate
Memory	8GB max ⁷ / 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	
SATA optical	<i>Some:</i> DVD burner, dual-layer support, not removable, 12.7mm high, slot-in <i>Some:</i> Blu-ray™ disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, slot-in	
SATA disk	1TB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
mSATA™ SSD	<i>Some:</i> 64GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot	
Widescreen display	27" (685.8mm) Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, Frameless design, VA (Vertical Alignment) technology, 300 nits, 16:9 aspect ratio, 5000:1 contrast ratio	
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch	
Camera	HD 720p Camera on top of screen, supports H.264 encoding, Skype™ certified, fixed focus, with digital microphone	
Controls	Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down	
Graphics	NVIDIA GeForce® GT 630M , PCI Express® x16, 1GB or 2GB DDR3 memory, DirectX® 11, NVIDIA CUDA™ technology	
Chipset	Mobile Intel HM76 Express Chipset	
Multicard reader	6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)	
Ports	<i>Rear:</i> Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some model, microphone (3.5 mm), headphone (3.5 mm) <i>Side:</i> One USB 3.0, HDMI in, HDMI out	
PCIe Mini Card	Two PCI Express Mini Card slots	
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek® RTL8188CUS, via internal USB	
TV tuner	<i>Some:</i> ATSC tuner, supports analog and digital signal, PCIe Mini Card	
Bluetooth™	Bluetooth 2.1 wireless + EDR	
Modem	None	
Ethernet	Gigabit ethernet on planar, Realtek® RTL8111F	
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / Dolby® Home Theater® v4 audio enhancement, stereo speakers (3 watt x 2)	
Security	Power-on password, administrator password	
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, silver	
Mouse	2.4G wireless Laser Wheel Mouse, 1200dpi, silver	
Remote control	<i>Some:</i> MCE remote control, via IR	
Dimensions ³	<i>(WxHxD):</i> 25.9" x 19.3" x 8.9"; 658mm x 490.5mm x 224.8mm <i>Monitor only (WxHxD):</i> 25.9" x 15.8" x 0.98"; 658mm x 402mm x 24.9mm <i>Base only (WxHxD):</i> 13.3" x 1.3" x 8.3"; 337mm x 32mm x 210.8mm	
Weight ²	25.52 lb (11.6kg), weight may vary by configuration	
Chassis	Silver color; metal shell (Aluminium base and hinge), plastic back cover	
Stand	Adjustable stand (between -5° and 90°)	
Wall mount	None	
Security lock	Kensington® Security slot on the rear of base	

| 150-watt AC adapter ENERGY® STAR 5.0-compliant RoHS-compliant | |
| **Limited Warranty**¹² ⇒ **1-year parts and labor** ⇒ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)** ⇒ **Service upgrade options (in eligible locations):⁹** - **2-year Lenovo Onsite Repair 9x5 Next Business Day** (78Y1552) - **3-year Lenovo Onsite Repair 9x5 Next Business Day** (78Y1553) ⇒ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686** | |

See footnotes for important warranty information

US model(s) announced July 11, 2012; previous model(s) on June 6, 2012

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Part number	Processor	Memory	Widescreen display	Multi-Touch screen	Graphics	SATA disk	mSATA SSD	SATA optical	PCIe Mini Card 802.11	TV tuner	Remote control	AC adapter	Keyboard/ Mouse	Win8 preload	Avail date (mm/yy)
57312175	i7-3630QM	4GBx2	27" FHD	Multi	GT 630M 2GB	1TB	None	BD player	11b/g/n	ATSC	Remote	150W	2.4G	Win8 64	06/13

- **Ultra slim 27" All-In-One PC with a frameless display; from just 24.5mm thin***
- **10-point multi-touch technology for greater accuracy**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)**
- **Widely adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort**

* Measured at thinnest point

Processor	Intel® Core™ i7-3630QM processor (4 cores / 8 threads, 2.40GHz, 6MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.40GHz), integrated Intel HD Graphics 4000		Preloaded operating system ²⁰ - Windows® 8 64-bit Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• Lenovo Cloud Storage by SugarSync• CyberLink YouCam• Dolby Home Theater• McAfee® Internet Security (30-Day Trial)• Cyberlink Power2Go (DVD±RW, BD player)• Adobe® Reader®• Nitro PDF• Cyberlink PowerDVD® (BD player)• Touch Games (Touch models)• Education Portal• Microsoft Office preloaded; purchase product key to activate• Intel AppUp®• AccuWeather• eBay• Evernote• Skype• Amazon Kindle• Lenovo Support• Rara Streaming• Lenovo Companion
Memory	8GB max ⁷ / 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		
SATA Blu-ray™	Blu-ray disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, slot-in		
SATA disk	1TB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high		
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset		
mSATA™ SSD	None		
Widescreen display	27" (685.8mm) Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, Frameless design, VA (Vertical Alignment) technology, 300 nits, 16:9 aspect ratio, 5000:1 contrast ratio		
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch		
Camera	HD 720p Camera on top of screen, supports H.264 encoding, Skype™ certified, fixed focus, with digital microphone		
Controls	Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down		
Graphics	NVIDIA GeForce® GT 630M , PCI Express® x16, 1GB or 2GB DDR3 memory, DirectX® 11, NVIDIA CUDA™ technology		
Chipset	Mobile Intel HM76 Express Chipset		
Multicard reader	6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)		
Ports	<i>Rear:</i> Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some model, microphone (3.5 mm), headphone (3.5 mm) <i>Side:</i> One USB 3.0, HDMI in, HDMI out		
PCIe Mini Card	Two PCI Express Mini Card slots		
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek® RTL8188CUS, via internal USB		
TV tuner	ATSC TV tuner, PCIe Mini Card		
Bluetooth™	Bluetooth 4.0 wireless		
Modem	None		
Ethernet	Gigabit ethernet on planar, Realtek® RTL8111F		
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / Dolby® Home Theater® v4 audio enhancement, stereo speakers (3 watt x 2)		
Security	Power-on password, administrator password		
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, silver		
Mouse	2.4G wireless Laser Wheel Mouse N70, 1200dpi, silver		
Remote control	Remote control, via IR		
Dimensions ³	<i>(WxHxD):</i> 25.9" x 19.3" x 8.9"; 658mm x 490.5mm x 224.8mm <i>Monitor only (WxHxD):</i> 25.9" x 15.8" x 0.98"; 658mm x 402mm x 24.9mm <i>Base only (WxHxD):</i> 13.3" x 1.3" x 8.3"; 337mm x 32mm x 210.8mm		
Weight ²	25.52 lb (11.6kg), weight may vary by configuration		
Chassis	Silver color; metal shell (Aluminium base and hinge), plastic back cover		
Stand	Adjustable stand (between -5° and 90°)		
Wall mount	None		
Security lock	Kensington® Security slot on the rear of base		
			150-watt AC adapter ENERGY® STAR 5.0-compliant RoHS-compliant
			Limited Warranty ¹² ⇨ 1-year parts and labor ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Service upgrade options (in eligible locations):⁹ <ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553) ⇨ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686

See footnotes for important warranty information
US model(s) announced June 5, 2013

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Horizon 27 Table PC
(Desktop mode)



Horizon 27 Table PC



Horizon 27 Table PC with unique
Aura UI (Table PC mode)



Horizon 27 Table PC with optional
strikers (Table PC mode)



Horizon 27 Table PC
Adjustable stand (between 15° and 90°)



Optional accessories
(e-dice, striker, and joystick)

Part number	Processor	Memory	Widescreen display	Multi-Touch screen	Graphics	SATA disk	mSATA SSD	PCIe Mini Card 802.11	TV tuner	Remote control	Battery	Keyboard/ Mouse	E-dice / Joystick / Striker	Win8 preload	Avail date (mm/yy)
57315058	i5-3337U	4GBx2	27" FHD	10-point	GT 620M 2GB	1TB	None	11b/g/n ²⁸	None	None	8-cell	2.4G	x1 / x2 / x2	Win8 64	05/13
57315077	i7-3537U	4GBx2	27" FHD	10-point	GT 620M 2GB	1TB	None	11b/g/n	None	None	8-cell	2.4G	x1 / x4 / x4	Win8 64	05/13

- **27" multi-mode computer that's both a Table PC and a Desktop**
- **Aura – an unique multi-user interface that allows two or more people to access different photos, videos, and music on the same screen**
- **Enjoy greater accuracy and ease of use with the 10-point multi-touch display, optimized for Windows 8**
- **Optional unique Table PC accessories (Joystick, Striker, and E-dice) – a completely new digital gaming experience combining the physical gaming accessory with the on-screen action in games like Air Hockey, Raiding Company, and Tycoon**
- **Optional battery providing up to 2hrs battery life so you can use the device anywhere at home without a power cable**
- **Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)**
- **Widely adjustable screen angle (from 15° to 90°) so you can use the touch-screen function in perfect comfort**

Processor	Intel® Core™ i5-3337U Processor (2 cores / 4 threads, 1.80GHz, 3MB Cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost Technology 2.0 (up to 2.70GHz), integrated Intel HD Graphics 4000 Intel Core i7-3537U processor (2 cores / 4 threads, 2.00GHz, 4MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost Technology 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000		Preloaded operating system¹²⁰ - Windows® 8 64-bit Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Lenovo Cloud Storage by SugarSync• Lenovo Eye Distance System• Lenovo App Shop• CyberLink YouCam• McAfee® Internet Security (30-Day)• Game Portal• Education Portal• Microsoft Office preloaded; purchase product key to activate <ul style="list-style-type: none">• Aura• Lenovo Tycoon• Lenovo Texas Hold'em• Lenovo Roulette• Lenovo Air Hockey• Lenovo Fishing Joy• Lenovo Color Corner• Lenovo Best Guess• Angry Birds• Snowflake• Ubisoft® Raiding Company• Ubisoft King of Opera• Ubisoft Draw Race 2 HD• Open Labs StageLight• FilmOn LiveTV• BlueStacks App Player• EA™ Monopoly• Lenovo Support• Lenovo Companion
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets		
SATA optical	None		
SATA disk	1TB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high		
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset		
mSATA™ SSD	None		
Widescreen display	27.0" (685.7mm) Full HD (1920x1080) TFT color, LED backlight, Frameless design, MVA (Multi-domain Vertical Alignment) technology, 300 nits, 5000:1 contrast ratio, 16:9 aspect ratio, viewing angle (horizontal / vertical): 178° (+/- 89°)		
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch		
Camera	HD 720p Camera on top of screen, fixed focus, with dual array digital microphone		
Controls	Touch-sensitive buttons for screen rotation (press and hold for 5 seconds to lock/unlock touch buttons), mode switch (PC / HDMI-in / Monitor Off), brightness adjustment, volume up/down		
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA GeForce GT 620M , PCI Express® x16, 2GB DDR3 memory, DirectX® 11, NVIDIA CUDA™ technology		
Chipset	Mobile Intel HM76 Express Chipset		
Multicard reader	6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)		
Ports	<i>Left side:</i> Two USB 3.0, multicard reader, microphone (3.5 mm), headphone (3.5 mm), HDMI in <i>Right side:</i> None		
PCIe Mini Card	Three PCI Express Mini Card slots		
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card, Realtek® RTL8188CE or Atheros® AR9485		
TV tuner	None		
Bluetooth™	Bluetooth 4.0 wireless		
Modem	None		
Ethernet	None		
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / Dolby® Home Theater® v4 audio enhancement, stereo speakers (3 watt x 2)		
Security	Power-on password, administrator password		
Keyboard	2.4G Wireless Ultra Slim Keyboard, 6-row, silver		
Mouse	2.4G Wireless Laser Wheel Mouse N70, 1200dpi, silver		
Remote control	None		
Dimensions ³	(WxHxD): 27.19" x 16.95" x 1.17"; 690.5mm x 430.5mm x 29.8mm		
Weight ²	18.21 lb (8.26kg), weight may vary by configuration		
Chassis	<i>Front:</i> Black color; PC/ABS / Thermoplastic polyurethane (TPU) frame <i>Rear:</i> Silver color; metal hinge and stand (Aluminium alloy / Tool steel), PC/ABS back cover		
Stand	Adjustable stand (between 15° and 90°)		
Wall mount	None		
Security lock	None		
Battery - type	Optional battery on selected models, Lithium Polymer 8-cell , 98Wh		
Battery - life	Up to 2.0 hr		
Accessories	<i>Some:</i> E-dice(s)*, with USB charger and dongle, simply shake and roll like a real dice <i>Some:</i> Joystick(s)*, tilt to create directional motion during on-screen actions <i>Some:</i> Striker(s)*, push across screen to strike during on-screen actions * Only functional in selected games and applications		
			Limited Warranty¹² ⇨ 1-year parts and labor ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Service upgrade options (in eligible locations):⁹ <ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553) ⇨ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686

See footnotes for important warranty information
 US model(s) announced May 8, 2013



Lenovo IdeaCentre B305
with optional bluetooth keyboard and mouse



Lenovo IdeaCentre B305
AV IN and TV IN on some models



Lenovo IdeaCentre B305



Lenovo IdeaCentre B305
with optional PS/2 keyboard and USB mouse



Lenovo IdeaCentre B305



Lenovo IdeaCentre B305

Type-model	Processor	GHz	Memory	Widescreen display	Multi-Touch screen	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	TV tuner	Remote control	Keyboard/Mouse	Win7 preload	Avail date
4031-1FU	Athlon II X2 235e	2.70	4GB	21.5" FHD	Multi	3000	500GB ⁸	DVD±RW	11b/g/n ²⁸			PS2/USB	Prem 64	Jun 10
4031-3BU	Athlon II X2 235e	2.70	4GB	21.5" FHD	Multi	3000	1TB	DVD±RW	11b/g/n			BT/BT	Prem 64	Aug 10
4031-1GU	Athlon II X3 400e	2.20	4GB	21.5" FHD	Multi	HD 5450	640GB	DVD±RW	11b/g/n	TV	IR remote	BT/BT	Prem 64	Jun 10
4031-1HU	Athlon II X4 600e	2.20	4GB	21.5" FHD	Multi	HD 5450	1TB	DVD±RW	11b/g/n	TV	IR remote	BT/BT	Prem 64	Jun 10
4031-3CU	Athlon II X2 235e	2.70	4GB	21.5" FHD	Multi	3000	1TB	DVD±RW	11b/g/n			BT/BT	Prem 64	Mar 11

- **All-In-One design with 21.5" Full HD 16:9 widescreen, multi-touch support**
- **(Selected models) Integrated TV tuner**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **These systems are Microsoft Office 2010 Product Key Ready (O10PKR)**

Processor	AMD® Athlon™ II X2 Processor 235e with dual-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 tech, int DDR3 memory controller, and 2MB L2 cache (1MB per core) or AMD Athlon II X3 Processor 400e with triple-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 tech, int DDR3 memory controller, and 1.5MB L2 cache (512KB per core) or AMD Athlon II X4 Processor 600e with quad-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 tech, int DDR3 memory controller, and 2MB L2 cache (512KB per core)			Preloaded operating system ²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• CyberLink YouCam• McAfee® VirusScan® Plus (60 days of virus definitions)• Lenovo Dynamic Brightness System• Lenovo Eye Distance System• Cyberlink Power2Go (DVD±RW)• Lenovo IdeaTouch (Touch models)<ul style="list-style-type: none">– PowerCinema– Lenovo VeriTouch– AutoCollage Touch• Windows Live Essential• Microsoft® Office 2010 preloaded; purchase product key to activate
Memory	4GB std / 4GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available			
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, not removable, tray-in 500GB, 640GB, or 1TB, SATA 3.0Gb/s, 7200 rpm, 3.5" wide			
Widescreen display	21.5" (546.1mm) Full HD (WUXGA 1920x1080) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio			
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, with microphone			
Controls	Buttons for brightness up, brightness down, display on/off, and power on/off			
Graphics	Some: ATI™ Radeon™ 3000, integrated graphics in 760G, uses main memory, DirectX® 10; Some: ATI Radeon HD 5450, PCI Express® x16, 512MB memory, DirectX 11, ATI Avivo™ HD			
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express 2.0 support; SB710 south bridge			
Multicard reader	5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC)			
Ports	Rear: Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), TV tuner connector on some models, IEEE 1394 FireWire 400 (4-pin connector) Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm)			
PCIe Mini Card	Two PCI Express Mini Card slots			
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Mini Card, Broadcom® chip or Atheros chip			
TV tuner	Some: Hybrid tuner, support analog and digital signal, PCIe Mini Card			
Bluetooth™	Bluetooth 2.1 wireless + EDR			
Modem	None			
Ethernet	10/100 ethernet on planar, RealTek® RTL8103EL			
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / stereo speakers (3 watt x 2)			
Security	Power-on password, administrator password			
Keyboard	Some: Bluetooth full-size keyboard, 6-row, 104-key, black Some: Full-size keyboard (PS/2 connector), Fn keys, black			
Mouse	Some: Bluetooth Optical Wheel Mouse, black Some: Optical Wheel Mouse (USB connector), black			
Remote control	Some: MCE remote control, via IR			
Dimensions ³	(WxHxD): 20.7" x 16.0" x 4.37"; 526mm x 407mm x 111mm			
Weight ²	Touch models: 24.7 lb (11.2kg)			
Chassis	Black color; ABS plastic			
Stand	Adjustable stand (between 15° and 40°)			
Limited Warranty ¹² <ul style="list-style-type: none">⇒ 1-year parts and labor⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)⇒ Service upgrade options (in eligible locations):⁹<ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)⇒ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686				

See footnotes for important warranty information

US model announced March 23, 2011; previous models on June 3 or August 25, 2010

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(BBDS1-1) March 2011

Type-model	Processor	GHz	Memory	Widescreen display	Multi-Touch screen	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	TV tuner	Remote control	Keyboard/Mouse	Win7 preload	Avail date
4031-1RU	Athlon II X2 235e	2.70	2GB	21.5" FHD	Multi	HD 5450	320GB ⁸	DVD±RW	11b/g/n ²⁸	TV	IR remote	PS2/USB	Prem 64	Jun 10
4031-1QU	Athlon II X3 400e	2.20	4GB	21.5" FHD	Multi	HD 5450	500GB	DVD±RW	11b/g/n	TV	IR remote	PS2/USB	Prem 64	Jun 10
4031-1PU	Athlon II X4 600e	2.20	4GB	21.5" FHD	Multi	HD 5450	640GB	DVD±RW	11b/g/n	TV	IR remote	PS2/USB	Prem 64	Jun 10

- **All-In-One design with 21.5" Full HD 16:9 widescreen, multi-touch support**
- **(Selected models) Integrated TV tuner**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**

Processor	AMD® Athlon™ II X2 Processor 235e with dual-core , 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 tech, int DDR3 memory controller, and 2MB L2 cache (1MB per core) or AMD Athlon II X3 Processor 400e with triple-core , 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 tech, int DDR3 memory controller, and 1.5MB L2 cache (512KB per core) or AMD Athlon II X4 Processor 600e with quad-core , 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 tech, int DDR3 memory controller, and 2MB L2 cache (512KB per core)	Preloaded operating system ²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• CyberLink YouCam• McAfee® VirusScan® Plus (60 days of virus definitions)• Lenovo Dynamic Brightness System• Lenovo Eye Distance System• Cyberlink Power2Go (DVD±RW)• Lenovo IdeaTouch (Touch models)<ul style="list-style-type: none">– PowerCinema– Lenovo VeriTouch– AutoCollage Touch• Windows Live Essential• Microsoft® Office 2007 Trial (60-day)
Memory	2GB or 4GB std / 4GB max ⁷ / PC3-10600 1333MHz 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	DVD burner, dual-layer support, fixed, not removable, tray-in	
SATA disk	320GB, 500GB, or 640GB , SATA 3.0Gb/s, 7200 rpm, 3.5" wide	
Widescreen display	21.5" (546.1mm) Full HD (WUXGA 1920x1080) TFT color, VibrantView (glossy), LED backlight , 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, with microphone	
Controls	Buttons for brightness up, brightness down, display on/off, and power on/off	
Graphics	ATI™ Radeon™ HD 5450 , PCI Express® x16, 512MB memory, DirectX® 11, ATI Avivo™ HD	
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express 2.0 support; SB710 south bridge	
Multicard reader	5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC)	
Ports	<i>Rear:</i> Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), TV tuner connector on some models, IEEE 1394 FireWire 400 (4-pin connector) <i>Side:</i> Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
PCIe Mini Card	Two PCI Express Mini Card slots	
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Mini Card, Broadcom® chip or Atheros chip	
TV tuner	<i>Some:</i> Hybrid tuner, support analog and digital signal, PCIe Mini Card	
Bluetooth™	None	
Modem	None	
Ethernet	10/100 ethernet on planar, RealTek® RTL8103EL	
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / stereo speakers (3 watt x 2)	
Security	Power-on password, administrator password	
Keyboard	Full-size keyboard (PS/2 connector), Fn keys, black	
Mouse	Optical Wheel Mouse (USB connector), black	
Remote control	<i>Some:</i> MCE remote control, via IR	
Dimensions ³	(WxHxD): 20.7" x 16.0" x 4.37"; 526mm x 407mm x 111mm	
Weight ²	<i>Touch models:</i> 24.7 lb (11.2kg)	
Chassis	Black color; ABS plastic	
Stand	Adjustable stand (between 15° and 40°)	

Discrete models: 130-watt AC adapter ENERGY® STAR 5.0-compliant RoHS-compliant
Limited Warranty ¹² ⇨ 1-year parts and labor ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Service upgrade options (in eligible locations): ⁹ <ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553) ⇨ 24x7 ¹⁴ toll-free support for warranty issues during the warranty period ¹ via 877-453-6686

See footnotes for important warranty information
 US models announced June 3, 2010

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Lenovo IdeaCentre B320
with optional Bluetooth keyboard and mouse



Lenovo IdeaCentre B320
(TV IN, and TV tuner connector
on some models)



Lenovo IdeaCentre B320



Lenovo IdeaCentre B320
with optional Bluetooth keyboard and mouse
(Hardware TV buttons on some models)



Lenovo IdeaCentre B320
(Hardware TV buttons on some models)



Lenovo IdeaCentre B320

Type-model	Proc- essor	Memory	Widescreen display	Multi- Touch screen	Camera (mega- pixel)	Graphics	SATA disk	Optical	Mini PCIe 802.11 wireless	OneKey TV	Remote control	Blue- tooth	Keyboard/ Mouse	USB3.0	Win7 preload
7760-1CU	G620	2GBx2	21.5" FHD	Multi	0.3M	Intel HD	500GB ⁸	DVD±RW	11b/g/n ²⁸			BT	BT/BT	None	Prem 64
7760-2QU	G620	4GBx1	21.5" FHD	Multi	0.3M	Intel HD	1TB	DVD±RW	11b/g/n	OneKey TV	Remote	BT	BT/BT	None	Prem 64
7760-2SU	i3-2120	4GBx1	21.5" FHD	Multi	0.3M	Intel HD	1TB	DVD±RW	11b/g/n	OneKey TV	Remote	BT	BT/BT	None	Prem 64
7760-2WU	G630	4GBx1	21.5" FHD	Multi	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	OneKey TV	Remote	BT	BT/BT	None	Prem 64
7760-3CU	G640	4GBx1	21.5" FHD	Multi	0.3M	Intel HD	500GB	DVD±RW	11b/g/n				2.4G/2.4G	None	Prem 64

- **21.5" Full HD frameless display supporting state-of-the-art multi-touch***
- **OneKey® TV* turns the display into a High-def TV at the click of a button; you can watch TV even without powering on the PC**
- **SRS Premium Sound provides the ultimate audio experience for music, movies and games on the PC**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- * **Optional feature**

Processor	Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.60 GHz, 3MB cache), DDR3 memory controller (up to 1066MHz) Intel Pentium G630 Processor (2 cores / 2 threads, 2.70 GHz, 3MB cache), DDR3 memory controller (up to 1066MHz) Intel Pentium G640 Processor (2 cores / 2 threads, 2.80 GHz, 3MB cache), DDR3 memory controller (up to 1066MHz) Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) DDR3 memory controller (up to 1333MHz) Processor in FCLGA1155 socket										Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none"> • Lenovo® Rescue System • Driver and Application Installation • McAfee® VirusScan® Plus (60 days of virus definitions) • Cyberlink Power2Go (DVD±RW) • Lenovo IdeaTouch (Touch models) <ul style="list-style-type: none"> - PowerCinema - Lenovo VeriTouch - PhotoStudio Paint - Lenovo Ebook and Quick Notes • Touch Games (Touch models) <ul style="list-style-type: none"> - Angry Birds - Happy Hit - Curling - Music Star - Link Up - Funny Cube - Firework • Windows Live Essentials • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • Lenovo Dynamic Brightness System • Lenovo Eye Distance System 					
Implementation																
Memory	4GB std / 8GB max ⁷ / PC3-10600 1333MHz DDR3* , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066MHz DDR3 memory controller															
Optical	DVD burner, dual-layer support, 12.7mm, tray-in															
SATA disk	500GB or 1TB , SATA 3.0Gb/s, 3.5" wide, 7200 rpm															
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset															
Widescreen display	21.5" (546.1mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio															
Multi-touch	Multi-touch, 2-point support															
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, with analog microphone															
Controls	Touch-sensitive buttons for menu, direction buttons (left and right), and display on/off; hardware TV buttons on selected models (Channel Up/Down, Volume Up/Down, TV mode menu button, Signal source choice button, and TV power On/Off)															
OneKey TV	<i>Some:</i> Hardware TV, turns the display into a High-def TV at the click of a button (even without powering on the PC)															
Graphics	Intel HD Graphics , integrated in processor, uses main memory, DirectX® 10.1															
Chipset	Intel H61 Express Chipset															
Multicard reader	5-in-1 card reader (MMC, MS, MS PRO, SD, SDHC)															
Ports	<i>Rear:</i> Four USB 2.0, one USB 3.0 (on some models), ethernet (RJ-45), keyboard (PS/2), TV-IN connector (on TV models); <i>Side:</i> Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader															
PCIe Mini Card	Two PCIe Mini Card slots (one full size and one half size)															
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip															
TV tuner	None															
Bluetooth™	<i>Some:</i> Bluetooth 2.1 wireless + EDR															
Modem	None															
Ethernet	Gigabit ethernet on planar, Intel 82579V															
Audio support	High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™, stereo speakers (3 watts x 2)															
Keyboard	<i>Some:</i> Bluetooth full-size keyboard, 6-row, black															
Mouse	<i>Some:</i> 2.4G wireless full-size keyboard, 6-row, black															
Remote control	<i>Some:</i> Bluetooth Optical Wheel Mouse, black															
Power supply	<i>Some:</i> 2.4G wireless Optical Wheel Mouse, black															
Dimensions ³	<i>Some:</i> IR remote control for hardware TV (OneKey TV)															
Weight ²	200 watts, universal, auto-sensing															
Chassis	Non-touch models: (WxHxD): 21.0" x 16.0" x 2.96"; 534mm x 405.2mm x 75.3mm Non-touch models w/stand: (WxHxD): 21.0" x 16.0" x 4.67"; 534mm x 405.2mm x 118.5mm Touch models: (WxHxD): 21.0" x 16.0" x 3.47"; 534mm x 405.2mm x 88.2mm Touch models w/stand: (WxHxD): 21.0" x 16.0" x 5.17"; 534mm x 405.2mm x 131.4mm															
Stand	From 22.11 lb (10.03 kg), vary by configuration															
VESA mount	Front: black and silver color; rear: dark gray color Adjustable stand (between 15° and 40°), supports cable management Supports VESA 100mm mount standard															

See footnotes for important warranty information

US model(s) announced August 29, 2012; previous models on August 10, 2011 or January 18 or February 29, 2012

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(BAKR1-1) August 2012

ENERGY STAR® qualified
RoHS-compliant

Limited Warranty¹²

⇒ **1-year parts and labor**
 ⇒ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts²³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
 ⇒ **Service upgrade options (in eligible locations):⁹**

- **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
- **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)

⇒ **24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686**

Type-model / part number	Processor	Memory	Widescreen display	Multi-Touch screen	Camera (mega-pixel)	Graphics	SATA disk	Optical	Mini PCIe 802.11 wireless	OneKey TV	Remote control	Keyboard/Mouse	USB3.0	Win7 preload
7760-1EU	i3-2120	4GBx1	21.5" FHD	Multi	0.3M	HD6450	1TB ⁸	DVD±RW	11b/g/n ²⁸	OneKey TV	IR Remote	BT/BT	None	Prem 64
7760-1DU	i5-2500S	4GBx1	21.5" FHD	Multi	0.3M	HD6450	2TB	DVD±RW	11b/g/n	OneKey TV	IR Remote	BT/BT	None	Prem 64
7760-2UU	i3-2120	4+2GB	21.5" FHD	Multi	0.3M	HD6450	1TB	DVD±RW	11b/g/n	OneKey TV	IR Remote	BT/BT	None	Prem 64
7760-2TU	i5-2500S	4GBx2	21.5" FHD	Multi	0.3M	HD6450	2TB	DVD±RW	11b/g/n	OneKey TV	IR Remote	BT/BT	None	Prem 64
7760-3FU	i5-2500S	4GBx2	21.5" FHD	Multi	0.3M	HD7450A	2TB	DVD±RW	11b/g/n				2.4G/2.4G	Prem 64
7760-3EU	i3-2120	4+2GB	21.5" FHD	Multi	0.3M	HD7450A	1TB	DVD±RW	11b/g/n				2.4G/2.4G	Prem 64
57312750	i5-3330S	4GBx2	21.5" FHD	Multi	0.3M	HD7450A	2TB	DVD±RW	11b/g/n	OneKey TV	IR + MCE	2.4G/2.4G	None	Prem 64
57312628	i3-2120	4+2GB	21.5" FHD	Multi	0.3M	HD7450A	1TB	DVD±RW	11b/g/n	OneKey TV	IR + MCE	2.4G/2.4G	None	Prem 64

- **21.5" Full HD frameless display supporting state-of-the-art multi-touch***
- **OneKey® TV* turns the display into a High-def TV at the click of a button; you can watch TV even without powering on the PC**
- **SRS Premium Sound provides the ultimate audio experience for music, movies and games on the PC**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- * **Optional feature**

Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) DDR3 memory controller (up to 1333MHz) Intel Core i5-2500S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache) Turbo Boost Technology 2.0 (up to 3.70 GHz), DDR3 memory controller (up to 1333MHz) Intel Core i5-3330S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache) Turbo Boost Technology 2.0 (up to 3.20 GHz), DDR3 memory controller (up to 1600MHz) Processor in FCLGA1155 socket										Preloaded operating system ²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• McAfee® VirusScan® Plus (60 days of virus definitions)• Cyberlink Power2Go (DVD±RW)• Lenovo IdeaTouch (Touch models)<ul style="list-style-type: none">– PowerCinema– Lenovo VeriTouch– PhotoStudio Paint– Lenovo Ebook and Quick Notes• Touch Games (Touch models)<ul style="list-style-type: none">– Angry Birds– Happy Hit– Curling– Music Star– Link Up– Funny Cube– Firework• Windows Live Essentials• CyberLink YouCam• Microsoft Office 2010 preloaded; purchase product key to activate• Lenovo Dynamic Brightness System• Lenovo Eye Distance System									
Implementation											ENERGY STAR® qualified RoHS-compliant									
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3*, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066MHz DDR3 memory controller																			
Optical	DVD burner, dual-layer support, 12.7mm, tray-in																			
SATA disk	1TB or 2TB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm																			
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset																			
Widescreen display	21.5" (546.1mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio																			
Multi-touch	Multi-touch, 2-point support																			
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, with analog microphone																			
Controls	Touch-sensitive buttons for menu, direction buttons (left and right), and display on/off; hardware TV buttons on selected models (Channel Up/Down, Volume Up/Down, TV mode menu button, Signal source choice button, and TV power On/Off)																			
OneKey TV	Some: Hardware TV, turns the display into a High-def TV at the click of a button (even without powering on the PC)																			
Graphics	Some: AMD Radeon™ HD 6450, PCI Express® x16, 1GB memory, DirectX® 11 Some: AMD Radeon HD 7450A, PCI Express x16, 1GB memory, DirectX 11																			
Chipset	Intel H61 Express Chipset																			
Multicard reader	5-in-1 card reader (MMC, MS, MS PRO, SD, SDHC)																			
Ports	Rear: Four USB 2.0, one USB 3.0 (on some models), ethernet (RJ-45), keyboard (PS/2), TV-IN connector (on TV models); Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader																			
PCIe Mini Card	Two PCIe Mini Card slots (one full size and one half size)																			
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip																			
TV tuner	None																			
Bluetooth™	Bluetooth 2.1 wireless + EDR																			
Modem	None																			
Ethernet	Gigabit ethernet on planar, Intel 82579V																			
Audio support	High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™, stereo speakers (3 watts x 2)										Limited Warranty ¹² ⇒ 1-year parts and labor ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ²³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Service upgrade options (in eligible locations): ⁹ <ul style="list-style-type: none">• 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) ⇒ 24x7 ¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686									
Keyboard	Some: Bluetooth full-size keyboard, 6-row, black Some: 2.4G wireless full-size keyboard, 6-row, black																			
Mouse	Some: Bluetooth Optical Wheel Mouse, black Some: 2.4G wireless Optical Wheel Mouse, black																			
Remote control	Some: MCE remote control Some: IR remote control for hardware TV (OneKey TV)																			
Power supply	200 watts, universal, auto-sensing																			
Dimensions ³	Non-touch models: (WxHxD): 21.0" x 16.0" x 2.96"; 534mm x 405.2mm x 75.3mm Non-touch models w/stand: (WxHxD): 21.0" x 16.0" x 4.67"; 534mm x 405.2mm x 118.5mm Touch models: (WxHxD): 21.0" x 16.0" x 3.47"; 534mm x 405.2mm x 88.2mm Touch models w/stand: (WxHxD): 21.0" x 16.0" x 5.17"; 534mm x 405.2mm x 131.4mm																			
Weight ²	From 22.11 lb (10.03 kg), vary by configuration																			
Chassis	Front: black and silver color; rear: dark gray color																			
Stand	Adjustable stand (between 15° and 40°), supports cable management																			
VESA mount	Supports VESA 100mm mount standard																			

See footnotes for important warranty information

⚡ US model(s) announced February 21, 2013;
 previous model(s) on January 18, February, August 29, or October 10, 2012

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 (BAKR1-2) February 2013

Limited Warranty¹²

⇒ **1-year parts and labor**
 ⇒ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts²³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
 ⇒ **Service upgrade options (in eligible locations):⁹**

- **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
- **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)

⇒ **24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686**



Lenovo IdeaCentre B520
(3D Vision models)



Lenovo IdeaCentre B520
(HDMI-in, TV IN, and TV tuner
connector on some models)



Lenovo IdeaCentre B520



Lenovo IdeaCentre B520
with optional Bluetooth keyboard and mouse



Lenovo IdeaCentre B520



Lenovo IdeaCentre B520

Type-model	Proc- essor	Memory	Widescreen display	Multi- Touch screen	Camera (mega- pixel)	Graphics	SATA disk	Optical	Mini PCIe 802.11 wireless	TV tuner	Remote control	Keyboard/ Mouse	Wall mount kit	USB3.0	HDMI-in AV IN	Win7 preload
7745-2AU	i3-2100	2Gx2	23" FHD	Multi	0.3M	Intel HD	1TB ^a	DVD±RW	11b/g/n ²⁸	TV	Remote	BT/BT	Wall	USB3.0	HDMI/AV	Prem 64
7745-2EU	i7-2600	2Gx3	23" FHD	Multi	0.3M	GT555M 1G	1TB	DVD±RW	11b/g/n	TV	Remote	BT/BT	Wall	USB3.0	HDMI/AV	Prem 64
7745-2FU	i5-2310	2Gx3	23" FHD	Multi	0.3M	GT555M 1G	1TB	DVD±RW	11b/g/n	TV	Remote	BT/BT	Wall	USB3.0	HDMI/AV	Prem 64
7745-2JU	i3-2120	2Gx2	23" FHD	Multi	0.3M	Intel HD	1TB	DVD±RW	11b/g/n	TV	Remote	BT/BT	Wall	USB3.0	HDMI/AV	Prem 64
7745-2KU	i5-2320	2Gx3	23" FHD	Multi	0.3M	GT555M 1G	1TB	DVD±RW	11b/g/n	TV	Remote	BT/BT	Wall	USB3.0	HDMI/AV	Prem 64

- **23" Full HD frameless display supporting state-of-the-art multi-touch* and NVIDIA 3D Vision* technologies**
- **Integrated TV tuner**
- **3-in-1 motion drive wireless mouse* – including motion-drive gaming and remote control functions**
- **Integrated 5.0 speakers (3 watts x 5) supporting SRS Premium Sound audio enhancement**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- * **Optional feature**

Processor	Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.10 GHz, 3M Cache) DDR3 memory controller (up to 1333MHz) Intel Core i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache), DDR3 memory controller (up to 1333MHz) Intel Core i5-2310 Processor (4 cores / 4 threads, 2.90 GHz, 6M Cache) Turbo Boost Technology 2.0 (up to 3.20 GHz), DDR3 memory controller (up to 1333MHz) Intel Core i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), DDR3 memory controller (up to 1333MHz) Intel Core i7-2600 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.80 GHz), DDR3 memory controller (up to 1333MHz) Processor in FCLGA1155 socket		Preloaded operating system ²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• McAfee® VirusScan® Plus (60 days of virus definitions)• Cyberlink Power2Go (DVD±RW, Blu-ray)• Lenovo IdeaTouch (Touch models)<ul style="list-style-type: none">– PowerCinema– Lenovo VeriTouch– PhotoStudio Paint– Lenovo Ebook and Quick Notes• Touch Games (Touch models)<ul style="list-style-type: none">– Angry Birds– Happy Hit– Curling– Music Star– Link Up– Funny Cube– Firework• Windows Live Essentials• CyberLink YouCam• Microsoft Office 2010 preloaded; purchase product key to activate• Lenovo Dynamic Brightness System*• Lenovo Eye Distance System* * The software is not compatible with 720p Camera
Implementation	Processor in FCLGA1155 socket		
Memory	4GB or 6GB std / 16GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, four 204-pin SO-DIMM sockets		
Optical	DVD burner, dual-layer support, 12.7mm, tray-in		
SATA disk	1TB, SATA 3.0Gb/s or SATA 6.0Gb/s, 3.5" wide, 7200 rpm		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s support, integrated in chipset		
Widescreen display	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen		
Multi-touch	Multi-touch, 2-point support		
NVIDIA® 3D Vision	None		
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, with analog microphone		
Controls	Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)		
Graphics	Some: Intel HD Graphics 2000, in processor, uses main memory, DirectX® 10.1; Some: NVIDIA® GeForce® GT 555M, PCI Express® x16, 1GB GDDR5, DirectX 11;		
Chipset	Intel H67 Express Chipset		
Multicard reader	Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)		
Ports	Rear: Four USB 2.0 (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45), keyboard (PS/2), HDMI-out, HDMI-in (on some models), AV IN (on some models), and TV tuner connector (on TV models); Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader		
PCIe Mini Card	Two PCIe Mini Card slots		
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip		
TV tuner	ATSC tuner, supports analog and digital signal, PCIe Mini Card		
Bluetooth™	Bluetooth 2.1 wireless + EDR		
Modem	None		
Ethernet	Gigabit ethernet on planar, Intel 82579V		
Audio support	High Definition (HD) Audio, Realtek ALC663 codec / SRS® Premium Sound™, 5.0 speakers (3 watts x 5)		
Keyboard	Bluetooth full-size keyboard, 6-row, black		
Mouse	Bluetooth Optical Wheel Mouse, black		
Remote control	MCE remote control, via IR		
Power supply	250 watts, universal, auto-sensing		
Dimensions ³	Non-3D models: (WxHxD): 22.35" x 16.80" x 3.01"; 567.8mm x 426.7mm x 76.5mm 3D models: (WxHxD): 22.35" x 16.80" x 3.48"; 567.8mm x 426.7mm x 88.5mm		
Weight ²	From 22.22 lb (10.08 kg), vary by configuration		
Chassis	Front: black and silver color; rear: silver gray color		
Stand	Adjustable stand (between 15° and 40°), supports cable management		
Wall mount	Wall mount kit, meets VESA 100mm mount standard		
ENERGY STAR® qualified RoHS-compliant			
Limited Warranty ¹² ⇒ 1-year parts and labor ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ²³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Service upgrade options (in eligible locations): ⁹ <ul style="list-style-type: none">• 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) ⇒ 24x7 ¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686			

See footnotes for important warranty information

US models announced November 23, 2011; previous models on July 20, 2011

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Type-model	Proc- essor	Memory	Wide- screen display	Multi- Touch screen	3D Vision with 3D glasses	Camera (mega- pixel)	Graphics	SATA disk	Optical	Mini PCIe 802.11 wireless	TV tuner	Remote control	Key- board/ Mouse	Wall mount kit	HDMI-in AV IN	Win7 preload
7745-1FU	i7-2600	4Gx2	23" FHD	Multi	3D Vision	0.3M	GT555M 2G	2TB ⁸	BD reader	11b/g/n ²⁸	TV	Remote	BT/3in1		HDMI/AV	Prem 64
7745-1GU	i7-2600	4Gx2	23" FHD	Multi		0.3M	GT555M 2G	2TB	BD reader	11b/g/n	TV	Remote	BT/3in1		HDMI/AV	Prem 64
7745-1HU	i5-2500	4Gx2	23" FHD	Multi		0.3M	GT555M 1G	1TB	BD reader	11b/g/n	TV	Remote	BT/3in1		HDMI/AV	Prem 64
7745-1JU	i3-2120	2Gx3	23" FHD	Multi		0.3M	Intel HD	500GB	DVD±RW	11b/g/n	TV	Remote	BT/3in1		HDMI/AV	Prem 64
7745-2LU	i3-2120	2Gx3	23" FHD	Multi		0.3M	Intel HD	1TB	DVD±RW	11b/g/n	TV	Remote	BT/3in1	Wall	HDMI/AV	Prem 64
7745-2NU	i5-2320	4Gx2	23" FHD	Multi		0.3M	Intel HD	1TB	DVD±RW	11b/g/n	TV	Remote	BT/3in1	Wall	HDMI/AV	Prem 64
7745-2PU	i5-2320	4Gx2	23" FHD	Multi		0.3M	GT555M 1G	1TB	BD burner	11b/g/n	TV	Remote	BT/3in1	Wall	HDMI/AV	Prem 64
7745-2MU	i7-2600	4Gx2	23" FHD	Multi		0.3M	GT555M 2G	2TB	BD burner	11b/g/n	TV	Remote	BT/3in1	Wall	HDMI/AV	Prem 64
7745-2QU	i7-2600	4Gx2	23" FHD	Multi	3D Vision	0.3M	GT555M 2G	2TB	BD burner	11b/g/n	TV	Remote	BT/3in1	Wall	HDMI/AV	Prem 64
<ul style="list-style-type: none">• 23" Full HD frameless display supporting state-of-the-art multi-touch* and NVIDIA 3D Vision* technologies• Integrated TV tuner*• 3-in-1 motion drive wireless mouse* – including motion-drive gaming and remote control functions• Integrated 5.0 speakers (3 watts x 5) supporting SRS Premium Sound audio enhancement• These systems are Microsoft® Office 2010 Product Key Ready (O10PKR) * Optional feature																
Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache) Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2500 Processor (4 cores / 4 threads, 3.30 GHz, 6M Cache) Turbo Boost Technology 2.0 (up to 3.70 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i7-2600 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.80 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller Processor in FCLGA1155 socket												Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• McAfee® VirusScan® Plus (60 days of virus definitions)• Cyberlink Power2Go (DVD±RW, Blu-ray)• CyberLink PowerDVD (Blu-ray)• Lenovo IdeaTouch (Touch models)<ul style="list-style-type: none">– PowerCinema– Lenovo VeriTouch– PhotoStudio Paint– Lenovo Ebook and Quick Notes• Touch Games (Touch models)<ul style="list-style-type: none">– Angry Birds– Happy Hit– Curling– Music Star– Link Up– Funny Cube– Firework• Windows Live Essentials• CyberLink YouCam• Microsoft Office 2010 preloaded; purchase product key to activate• Lenovo Dynamic Brightness System*• Lenovo Eye Distance System* * The software is not compatible with 720p Camera			
Implementation																
Memory	6GB or 8GB std / 16GB max ⁷ / PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, four 204-pin SO-DIMM sockets															
Optical	<i>Some:</i> DVD burner, dual-layer support, 12.7mm, tray-in <i>Some:</i> Blu-ray disc reader (no Blu-ray media burning), DVD recordable, 12.7mm, tray-in <i>Some:</i> Blu-ray™ burner, Blu-ray and DVD disk recordable, 12.7mm, tray-in															
SATA disk	500GB, 1TB, or 2TB , SATA 3.0Gb/s or SATA 6.0Gb/s, 3.5" wide, 7200 rpm															
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s support, integrated in chipset															
Widescreen display	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), <i>Non-3D models:</i> LED backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen <i>3D models:</i> CCFL backlight, 400 nits, 16:9 aspect ratio, 1000:1 contrast ratio, support 120MHz, frameless screen															
Multi-touch	Multi-touch, 2-point support															
NVIDIA® 3D Vision	<i>Some:</i> NVIDIA 3D Vision support, includes active shutter glasses and build-in IR emitter															
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, with analog microphone															
Controls	Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)															
Graphics	<i>Some:</i> Intel HD Graphics , integrated in processor, uses main memory, DirectX® 10.1; <i>Some:</i> NVIDIA® GeForce® GT 555M , PCI Express® x16, 1GB GDDR5, DirectX 11; <i>Some:</i> NVIDIA GeForce GT 555M , PCI Express x16, 2GB GDDR5, DirectX 11												Ready to install applications (only some listed) <ul style="list-style-type: none">• Motion Drive Game Zone (The application is included on a CD shipped with 3-in-1 mouse)			
Chipset	Intel H67 Express Chipset															
Multicard reader	Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)															
Ports	<i>Rear:</i> Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), HDMI-out, HDMI-in (on some models), AV IN (on some models), and TV tuner connector (on TV models); <i>Side:</i> Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader															
PCIe Mini Card	Two PCIe Mini Card slots												ENERGY STAR® qualified RoHS-compliant			
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip															
TV tuner	ATSC tuner, supports analog and digital signal, PCIe Mini Card															
Bluetooth™	Bluetooth 2.1 wireless + EDR															
Modem	None															
Ethernet	Gigabit ethernet on planar, Intel 82579V															
Audio support	High Definition (HD) Audio, Realtek ALC663 codec / SRS® Premium Sound™, 5.0 speakers (3 watts x 5)												Limited Warranty¹² ➤ 1-year parts and labor ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts²³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Service upgrade options (in eligible locations):⁹ <ul style="list-style-type: none">• 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) ➤ 24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686			
Keyboard	Bluetooth full-size keyboard, 6-row, black															
Mouse	3-in-1 motion drive Bluetooth wireless mouse, includes regular mouse function, air mouse, and motion drive game remote control															
Remote control	MCE remote control, via IR															
Power supply	250 watts, universal, auto-sensing															
Dimensions ³	<i>Non-3D models: (WxHxD): 22.35" x 16.80" x 3.01"; 567.8mm x 426.7mm x 76.5mm</i> <i>3D models: (WxHxD): 22.35" x 16.80" x 3.48"; 567.8mm x 426.7mm x 88.5mm</i>															
Weight ²	From 22.22 lb (10.08 kg), vary by configuration															
Chassis	<i>Front:</i> black and silver color; <i>rear:</i> silver gray color															
Stand	Adjustable stand (between 15° and 40°), supports cable management															
Wall mount	<i>Some:</i> Wall mount kit, meets VESA 100mm mount standard															

See footnotes for important warranty information

US models announced December 21, 2011; previous models on July 20, 2011

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Limited Warranty¹²

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts²³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):⁹**
 - **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
 - **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)
- **24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686**

Type-model	Proc- essor	Memory	Widescreen display	Multi-Touch screen	Camera (mega- pixel)	Graphics	SATA disk (GB ⁸)	Optical	Mini PCIe 802.11 wireless	TV tuner / OneKey TV	Remote control	Keyboard/ Mouse	Wall mount kit	USB3.0	HDMI-in AV IN	Win7 preload
3111-1MU	i3-2120	4Gx1	23" FHD	Multi	0.3M	Intel HD	500G	DVD±RW	11b/g/n ²⁸	OneKey TV	IR Rem	BT/BT	Wall	USB3.0	HDMI/AV	Prem 64
3111-1NU	i5-2400S	4Gx1	23" FHD	Multi	0.3M	Intel HD	1TB	DVD±RW	11b/g/n	OneKey TV	IR Rem	BT/BT	Wall	USB3.0	HDMI/AV	Prem 64
3111-1PU	G630	4Gx1	23" FHD	Multi	0.3M	Intel HD	500G	DVD±RW	11b/g/n	TV tuner	MCE IR	BT/BT	Wall	USB3.0		Prem 64

- **23" Full HD frameless display supporting state-of-the-art multi-touch***
- **OneKey® TV* turns the display into a High-def TV at the click of a button; you can watch TV even without powering on the PC**
- **Dolby Home Theater v4 audio enhancement**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- * **Optional feature**

Processor	Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.70 GHz, 3MB cache), DDR3 memory controller (up to 1066MHz) Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz) Intel Core i5-2400S Processor (4 cores / 4 threads, 2.50 GHz, 6MB Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), DDR3 memory controller (up to 1333MHz) Processor in FCLGA1155 socket		Preloaded operating system ²⁰ - Genuine Windows® 7 Home Premium 64
Implementation			Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• McAfee® VirusScan® Plus (60 days of virus definitions)• Cyberlink Power2Go (DVD±RW)• Lenovo IdeaTouch (Touch models)<ul style="list-style-type: none">– PowerCinema– Lenovo VeriTouch– PhotoStudio Paint– Lenovo Ebook and Quick Notes• Touch Games (Touch models)<ul style="list-style-type: none">– Angry Birds– Happy Hit– Curling– Music Star– Link Up– Funny Cube– Firework• Windows Live Essentials• CyberLink YouCam• Microsoft Office 2010 preloaded; purchase product key to activate• Lenovo Dynamic Brightness System*• Lenovo Eye Distance System* * The software is not compatible with 720p Camera
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets		
Optical	DVD burner, dual-layer support, 12.7mm, tray-in		
SATA disk	500GB or 1TB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm		
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset		
Widescreen display	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen		
Multi-touch	Multi-touch, 2-point support		
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, with analog microphone		
Controls	Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration) Hardware TV buttons on selected models (Channel Up/Down, Volume Up/Down, TV mode menu button, Signal source choice button, and TV power On/Off)		
OneKey TV	Some: Hardware TV, turns the display into a High-def TV at the click of a button (even without powering on the PC)		
Graphics	Intel HD Graphics in processor, uses main memory		
Chipset	Intel H61 Express Chipset		
Multicard reader	Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)		
Ports	Rear: Four USB 2.0 (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45), HDMI-out, HDMI-in (on some models), AV IN (on some models), and TV tuner connector (on TV models); Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader		
PCIe Mini Card	Two PCIe Mini Card slots		ENERGY STAR® qualified RoHS-compliant
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Realtek® or Atheros® chip		
TV tuner	Some: ATSC TV tuner, PCIe Mini Card		
Bluetooth™	Bluetooth 2.1 wireless + EDR		
Modem	None		
Ethernet	Gigabit ethernet on planar, Realtek RTL8111E		
Audio support	High Definition (HD) Audio, Realtek ALC663 codec / Dolby® Home Theater® v4 certified / 5.0 speakers (3 watts x 5)		
Keyboard	Bluetooth full-size keyboard, 6-row, black		
Mouse	Bluetooth Optical Wheel Mouse, black		
Remote control	Some: MCE remote control, via IR Some: IR remote control for hardware TV (OneKey TV)		
Power supply	250 watts, universal, auto-sensing		Limited Warranty ¹² ⇒ 1-year parts and labor ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ²³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Service upgrade options (in eligible locations): ⁹ <ul style="list-style-type: none">• 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) ⇒ 24x7 ¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686
Dimensions ³	(WxHxD): 22.35" x 16.80" x 3.01"; 567.8mm x 426.7mm x 76.5mm		
Weight ²	From 22.22 lb (10.08 kg), vary by configuration		
Chassis	Front: black and silver color; rear: silver gray color		
Stand	Adjustable stand (between 15° and 40°), supports cable management		
Wall mount	Wall mount kit, meets VESA 100mm mount standard		

See footnotes for important warranty information
 US model(s) announced April 11, 2012

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Lenovo IdeaCentre B540



Lenovo IdeaCentre B540
(HDMI-in, TV IN, and TV tuner
connector on some models)



Lenovo IdeaCentre B540



Lenovo IdeaCentre B540
with keyboard and mouse



Lenovo IdeaCentre B540



Lenovo IdeaCentre B540

Type-model	Proc- essor	Memory	Wide- screen display	Multi- Touch screen	Cam- era	Graphics	SATA disk	Optical	Mini PCIe 802.11 wireless	TV tuner	Remote control	Key- board/ Mouse	HDMI-in AV IN	USB 3.0	Blue- tooth	Win7 preload	Avail date (mm/yy)
2568-2SU	G640	4Gx1	23" FHD	Multi	720p	Intel HD	500GB ⁸	DVD±RW	11b/g/n ²⁸	None	None	2.4G	None	USB3.0	BT	Prem 64	07/12
2568-2RU	i3-2120	4Gx1	23" FHD	Multi	720p	Intel HD 2000	1TB	DVD±RW	11b/g/n	None	None	2.4G	None	USB3.0	BT	Prem 64	07/12
2568-2YU	i3-2120	4+2G	23" FHD	Multi	720p	Intel HD 2000	1TB	DVD±RW	11b/g/n	None	None	2.4G	None	USB3.0	BT	Prem 64	12/12

- **23" Full HD frameless display supporting state-of-the-art multi-touch* and FPR 3D technologies***
- **Integrated TV tuner***
- **2.4G wireless keyboard and mouse**
- **Integrated 2.0 speakers (3 watts x 2) supporting Dolby Advanced Audio v2**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

* Optional feature

Processor	Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.80 GHz, 3M Cache) integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller		Preloaded operating system ²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• McAfee® Internet Security (30-day Trial)• Cyberlink Power2Go (DVD±RW, Blu-ray)• CyberLink PowerDVD (Blu-ray)• Lenovo IdeaTouch (Touch models)<ul style="list-style-type: none">– PowerCinema– Lenovo VeriTouch– PhotoStudio Paint– Lenovo Ebook and Quick Notes• Touch Games (Touch models)<ul style="list-style-type: none">– Angry Birds– Happy Hit– Curling– Music Star– Link Up– Funny Cube– Firework• Windows Live Essentials• CyberLink YouCam• Microsoft Office 2010 preloaded; purchase product key to activate
Implementation	Processor in FCLGA1155 socket		
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller		
Optical	DVD burner, dual-layer support, 12.7mm, tray-in		
SATA disk	500GB or 1TB , SATA 6.0Gb/s, 3.5" wide, 7200 rpm		
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset		
Widescreen display	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen		
Multi-touch	Projected Capacitive Touch (PCT) technology, hardware supports 10-point multi-touch		
FPR 3D	None		
Camera	Camera on top of screen, HD720p resolution, fixed focus, with digital microphone		
Controls	Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)		
Graphics	Intel HD Graphics or Intel HD Graphics 2000 , integrated in processor, uses main memory, DirectX® 10.1;		
Chipset	Intel H61 Express Chipset		
Multicard reader	Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)		
Ports	<i>Rear:</i> Four USB 2.0 (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45), HDMI-out, HDMI-in (on some models), AV IN (on some models), and TV tuner connector (on TV models); <i>Side:</i> Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader		
PCIe Mini Card	Two PCIe Mini Card slots		
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip		
TV tuner	None		
Bluetooth™	Bluetooth wireless		
Modem	None		
Ethernet	Gigabit ethernet on planar, Realtek® RTL 8111F		
Audio support	High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2, 2.0 speakers (3 watts x 2)		
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, Fn keys, black		
Mouse	2.4G wireless Laser Wheel Mouse, black		
Remote control	None		
Power supply	200 watts, universal, auto-sensing		
Dimensions ³	<i>Non-3D models: (WxHxD): 22.70" x 16.22" x 4.34"; 576.6mm x 411.9mm x 110.3mm</i>		
Weight ²	From 24.25 lb (11.00 kg), vary by configuration		
Chassis	<i>Front:</i> black with silver; <i>rear:</i> black with silver		
Stand	Adjustable stand (between 15° and 40°), supports cable management		
Wall mount	None		

ENERGY STAR® qualified RoHS-compliant
Limited Warranty ¹² ➤ 1-year parts and labor ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ²³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Service upgrade options (in eligible locations): ⁹ <ul style="list-style-type: none">• 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) ➤ 24x7¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686

See footnotes for important warranty information

US model(s) announced December 13, 2012; previous model(s) on July 11, 2012

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Limited Warranty¹²

- ⇒ **1-year parts and labor**
- ⇒ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts²³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- ⇒ **Service upgrade options (in eligible locations):⁹**
 - **2-year Lenovo In-Home Repair**
9x5 Next Business Day (78Y1552)
 - **3-year Lenovo In-Home Repair**
9x5 Next Business Day (78Y1553)
- ⇒ **24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686**

Part number	Pro-cessor	Memory	Wide-screen display	Multi-Touch screen	Cam-era	Graphics	SATA disk	Optical	Mini PCIe 802.11 wireless	TV tuner	Remote control	Key-board/Mouse	HDMI-in AV IN	USB 3.0	Blue-tooth	Win8 preload	Avail date (mm/yy)
57308828	G645	4Gx1	23" FHD	Multi	720p	Intel HD	500GB ⁸	DVD±RW	11b/g/n	None	None	2.4G	None	USB3.0	BT4.0	Win8 64	11/12
57308886	i3-2130	4Gx1	23" FHD	Multi	720p	Intel HD 2000	1TB	DVD±RW	11b/g/n	None	None	2.4G	None	USB3.0	BT4.0	Win8 64	11/12
57311411	i5-3330S	4+2G	23" FHD	Multi	720p	Intel HD 2500	1TB	BD Player	11b/g/n	None	None	2.4G	None	USB3.0	BT4.0	Win8 64	11/12
57312430	i3-3220	4+2G	23" FHD	Multi	720p	Intel HD 2500	1TB	DVD±RW	11b/g/n	None	None	2.4G	None	USB3.0	BT4.0	Win8 64	03/13

- **23" Full HD frameless display supporting state-of-the-art multi-touch* and FPR 3D technologies***
- **Integrated TV tuner***
- **2.4G wireless keyboard and mouse**
- **Integrated 2.0 speakers (3 watts x 2) supporting Dolby Advanced Audio v2**

* Optional feature

Processor	Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.90 GHz, 3M Cache) DDR3 memory controller (up to 1066MHz), integrated Intel HD Graphics Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.40 GHz, 3M Cache) DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics 2000 Intel Core i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 2500 Intel Core i5-3330S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache) , DDR3 memory controller (up to 1600MHz), Turbo Boost Technology 2.0 (up to 3.20 GHz), integrated Intel HD Graphics 2500 Processor in FCLGA1155 socket	Preloaded operating system ²⁰ - Windows® 8 64-bit Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• Lenovo Cloud Storage by SugarSync• CyberLink YouCam• McAfee® Internet Security (30-Day Trial)• Cyberlink Power2Go (DVD±RW, BD player)• Adobe® Reader®• Nitro PDF• Cyberlink PowerDVD® (BD player)• Touch Games (Touch models)• Education Portal• Microsoft Office preloaded; purchase product key to activate• Intel AppUp®• Lenovo Dynamic Brightness System• Lenovo Eye Distance System• AccuWeather• eBay• Evernote• Amazon Kindle• Lenovo Support• Rara Streaming• Lenovo Companion
Implementation		
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller	
Optical	<i>Some:</i> DVD burner, dual-layer support, 12.7mm, tray-in <i>Some:</i> Blu-ray disc reader (no Blu-ray media burning), DVD recordable, 12.7mm, tray-in	
SATA disk	500GB or 1TB , SATA 6.0Gb/s, 3.5" wide, 7200 rpm	
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset	
Widescreen display	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen	
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch	
FPR 3D	None	
Camera	Camera on top of screen, HD720p resolution, fixed focus, with digital microphone	
Controls	Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)	
Graphics	Intel HD Graphics, Intel HD Graphics 2000, or Intel HD Graphics 2500 , integrated in processor, uses main memory, DirectX® 10.1	
Chipset	Intel H61 Express Chipset	
Multicard reader	Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)	
Ports	<i>Rear:</i> Four USB 2.0 (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45), HDMI-out, HDMI-in (on some models), AV IN (on some models), and TV tuner connector (on TV models); <i>Side:</i> Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader	ENERGY STAR® qualified RoHS-compliant
PCIe Mini Card	Two PCIe Mini Card slots	Limited Warranty ¹² ⇨ 1-year parts and labor ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ²³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Service upgrade options (in eligible locations): ⁹ <ul style="list-style-type: none">• 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) ⇨ 24x7 ¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686
11b/g/n	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip	
TV tuner	None	
Bluetooth™	Bluetooth 4.0 wireless	
Modem	None	
Ethernet	Gigabit ethernet on planar, Realtek® RTL 8111F	
Audio support	High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2, 2.0 speakers (3 watts x 2)	
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, Fn keys, black	
Mouse	2.4G wireless Laser Wheel Mouse, black	
Remote control	None	
Power supply	200 watts, universal, auto-sensing	
Dimensions ³	<i>Non-3D models: (WxHxD): 22.70" x 16.22" x 4.34"; 576.6mm x 411.9mm x 110.3mm</i>	
Weight ²	From 24.25 lb (11.00 kg), vary by configuration	
Chassis	<i>Front:</i> black with silver; <i>rear:</i> black with silver	
Stand	Adjustable stand (between 15° and 40°), supports cable management	
Wall mount	None	

See footnotes for important warranty information

²⁸ US model(s) announced March 6, 2013; previous model(s) on November 28, 2012

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Limited Warranty¹²

- ⇒ **1-year parts and labor**
- ⇒ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts²³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- ⇒ **Service upgrade options (in eligible locations):⁹**
 - **2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)**
 - **3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553)**
- ⇒ **24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686**

Type-model	Proc- essor	Memory	Wide- screen display	Multi- Touch screen	FPR 3D	Camera (mega- pixel)	Graphics	SATA disk	Optical	Mini PCIe 802.11 wireless	OneKey TV	Remote control	Key- board/ Mouse	USB3.0	Win7 preload	Avail date (mm/yy)
2568-1VU	i3-2120	4Gx2	23" FHD			720p	HD Graphics	1TB ⁸	DVD±RW	11b/g/n		MCE Remote	2.4G	USB3.0	Prem 64	06/12
2568-1JU	i5-2400S	4Gx2	23" FHD	Multi		720p	GF615M 1G	1TB	DVD±RW	11b/g/n		MCE Remote	2.4G	USB3.0	Prem 64	06/12
2568-1RU	i3-2120	4Gx2	23" FHD	Multi		720p	GF615M 1G	2TB	DVD±RW	11b/g/n		MCE Remote	2.4G	USB3.0	Prem 64	07/12
2568-2DU	i5-3450S	4Gx2	23" FHD	Multi		720p	GF615M 1G	1TB	DVD±RW	11b/g/n		MCE Remote	2.4G	USB3.0	Prem 64	10/12
2568-2GU	i5-3450S	4Gx2	23" FHD	Multi	3D	720p	GF615M 2G	2TB	BD burner	11b/g/n	OneKey TV	IR Remote	2.4G	USB3.0	Prem 64	10/12

- **23" Full HD frameless display supporting state-of-the-art multi-touch* and FPR 3D technologies***
- **Integrated TV tuner***
- **2.4G wireless keyboard and mouse**
- **Integrated stereo speakers (3 watts x 2) supporting Dolby Advanced Audio v2**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

* Optional feature

Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2400S Processor (4 cores / 4 threads, 2.50 GHz, 6M Cache) Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-3450S Processor (4 cores / 4 threads, 2.80 GHz, 6M Cache) Turbo Boost Technology 2.0 (up to 3.50 GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Processor in FCLGA1155 socket											Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none"> • Lenovo® Rescue System • Driver and Application Installation • McAfee® Internet Security (30-day Trial) • Cyberlink Power2Go (DVD±RW, Blu-ray) • CyberLink PowerDVD (Blu-ray) • Lenovo IdeaTouch (Touch models) <ul style="list-style-type: none"> - PowerCinema - Lenovo VeriTouch - PhotoStudio Paint - Lenovo Ebook and Quick Notes • Touch Games (Touch models) <ul style="list-style-type: none"> - Angry Birds - Happy Hit - Curling - Music Star - Link Up - Funny Cube - Firework • Windows Live Essentials • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate 				
Implementation																
Memory	8GB max ⁷ / 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															
Optical	<i>Some:</i> DVD burner, dual-layer support, 12.7mm, tray-in <i>Some:</i> Blu-ray™ burner, Blu-ray and DVD disk recordable, 12.7mm, tray-in															
SATA disk	1TB or 2TB , SATA 6.0Gb/s, 3.5" wide, 7200 rpm															
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset															
Widescreen display	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen															
Multi-touch	<i>Some:</i> Projected Capacitive Touch (PCT) technology, hardware supports 10-point															
FPR 3D	<i>Some:</i> Support FPR 3D technology, 2 pairs of FPR glasses															
Camera	Camera on top of screen, HD720p resolution, fixed focus, with digital microphone															
Controls	Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)															
OneKey TV	Hardware TV buttons on OneKey TV models (Channel Up/Down, Volume Up/Down, TV mode menu button, Signal source choice button, and TV power On/Off) <i>Some:</i> Hardware TV, turns the display into a High-def TV at the click of a button (even without powering on the PC)															
Graphics	<i>Some:</i> Intel HD Graphics , integrated in processor, uses main memory, DirectX® 10.1; <i>Some:</i> NVIDIA® GeForce® 615M , PCI Express® x16, 1GB DDR3, DirectX 11; <i>Some:</i> NVIDIA GeForce 615M , PCI Express x16, 2GB DDR3, DirectX 11															
Chipset	Intel H61 Express Chipset															
Multicard reader	Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)															
Ports	<i>Rear:</i> Four USB 2.0 (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45), HDMI-out, HDMI-in (on OneKey TV models), AV IN (on OneKey TV models), and TV tuner connector (on TV models); <i>Side:</i> Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader															
PCIe Mini Card	Two PCIe Mini Card slots															
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip															
TV tuner	None															
Bluetooth™	None															
Modem	None															
Ethernet	Gigabit ethernet on planar, Realtek® RTL 8111F															
Audio support	High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2, stereo speakers (3 watts x 2)															
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, Fn keys, black															
Mouse	2.4G wireless Laser Wheel Mouse, black															
Remote control	<i>Some:</i> MCE remote control, via IR <i>Some:</i> IR remote control for hardware TV (OneKey TV)															
Power supply	200 watts, universal, auto-sensing															
Dimensions ³	<i>Non-3D models: (WxHxD):</i> 22.70" x 16.22" x 4.34"; 576.6mm x 411.9mm x 110.3mm															
Weight ²	From 24.25 lb (11.00 kg), vary by configuration															
Chassis	<i>Front:</i> black with silver; <i>rear:</i> black with silver															
Stand	Adjustable stand (between 15° and 40°), supports cable management															
Wall mount	None															

See footnotes for important warranty information

☞ US model(s) announced October 24, 2012; previous model(s) on June 21 or July 25, 2012

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ENERGY STAR® qualified
RoHS-compliant

Limited Warranty¹²

☞ **1-year parts and labor**

☞ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts²³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**

☞ **Service upgrade options (in eligible locations):⁹**

- **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
- **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)

☞ **24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686**

Part number	Pro-cessor	Memory	Wide-screen display	Multi-Touch screen	Cam-era	Graphics	SATA disk	Optical	Mini PCIe 802.11 wireless	TV tuner	Remote control	Key-board/Mouse	HDMI-in AV IN	USB 3.0	Blue-tooth	Win8 preload	Avail date (mm/yy)
57311751	i3-3220	4Gx2	23" FHD		720p	Intel HD 2500	2TB ⁸	DVD±RW	11b/g/n	None	Remote	2.4G	None	USB3.0	BT4.0	Win8 64	01/13
57311756	i5-3330S	4Gx2	23" FHD	Multi	720p	GF615M 1G	2TB	DVD±RW	11b/g/n	None	Remote	2.4G	None	USB3.0	BT4.0	Win8 64	01/13

- **23" Full HD frameless display supporting state-of-the-art multi-touch* and FPR 3D technologies***
- **Integrated TV tuner***
- **2.4G wireless keyboard and mouse**
- **Integrated 2.0 speakers (3 watts x 2) supporting Dolby Advanced Audio v2**

* Optional feature

Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 2500, Intel Core i5-3330S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache), DDR3 memory controller (up to 1600MHz), Turbo Boost Technology 2.0 (up to 3.20 GHz), integrated Intel HD Graphics 2500 Processor in FCLGA1155 socket		Preloaded operating system ²⁰ - Windows® 8 64-bit	
Implementation			Preloaded applications ¹⁴ (only some listed)	
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller		<ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• Lenovo Cloud Storage by SugarSync• CyberLink YouCam• McAfee® Internet Security (30-Day Trial)• Cyberlink Power2Go (DVD±RW, BD player)• Adobe® Reader®• Nitro PDF• Cyberlink PowerDVD® (BD player)• Touch Games (Touch models)• Education Portal• Microsoft Office preloaded; purchase product key to activate• Intel AppUp®• Lenovo Dynamic Brightness System• Lenovo Eye Distance System• AccuWeather• eBay• Evernote• Amazon Kindle• Lenovo Support• Rara Streaming• Lenovo Companion	
Optical	DVD burner, dual-layer support, 12.7mm, tray-in			
SATA disk	2TB, SATA 6.0Gb/s, 3.5" wide, 7200 rpm			
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset			
Widescreen display	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen			
Multi-touch	Some: Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch			
FPR 3D	None			
Camera	Camera on top of screen, HD720p resolution, fixed focus, with digital microphone			
Controls	Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)			
Graphics	Some: Intel HD Graphics 2500, integrated in processor, uses main memory, DirectX® 11 Some: NVIDIA® GeForce® 615M, PCI Express x16, 1GB DDR3, DirectX 11			
Chipset	Intel H61 Express Chipset			
Multicard reader	Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)			
Ports	Rear: Four USB 2.0 (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45), HDMI-out, HDMI-in (on some models), AV IN (on some models), and TV tuner connector (on TV models); Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader			
PCIe Mini Card	Two PCIe Mini Card slots			
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip			
TV tuner	None			
Bluetooth™	Bluetooth 4.0 wireless			
Modem	None			
Ethernet	Gigabit ethernet on planar, Realtek® RTL 8111F			
Audio support	High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2, 2.0 speakers (3 watts x 2)			
Keyboard	2.4G wireless Ultra Slim keyboard, 6-row, Fn keys, black			
Mouse	2.4G wireless Laser Wheel Mouse, black			
Remote control	Remote control, via IR			
Power supply	200 watts, universal, auto-sensing			
Dimensions ³	Non-3D models: (WxHxD): 22.70" x 16.22" x 4.34"; 576.6mm x 411.9mm x 110.3mm			
Weight ²	From 24.25 lb (11.00 kg), vary by configuration			
Chassis	Front: black with silver; rear: black with silver			
Stand	Adjustable stand (between 15° and 40°), supports cable management			
Wall mount	None			
			ENERGY STAR® qualified RoHS-compliant	
			Limited Warranty ¹² ➤ 1-year parts and labor ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ²³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Service upgrade options (in eligible locations): ⁹ <ul style="list-style-type: none">• 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) ➤ 24x7 ¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686	

See footnotes for important warranty information
 US model(s) announced January 30, 2013

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IdeaCentre™ B540p (3363) - (web only models)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	Memory	Wide- screen display	Multi- Touch screen	FPR 3D	Camera (mega- pixel)	Graphics	SATA disk	Optical	Mini PCIe 802.11 wireless	TV tuner	OneKey TV	Key- board/ Mouse	Wall mount kit	HDMI-in AV IN	Win7 preload	Ann date (mm/yy)
3363-1BU	i7-3770	4Gx3	23" FHD	Multi	None	720p	GT650M 2G	2TB ⁸	BD Reader	11b/g/n ²⁸	None	OneKey TV	2.4G	None	HDMI+AV	Prem 64	09/12
3363-1CU	i7-3770	4Gx4	23" FHD	Multi	3D	720p	GT650M 2G	2TB	BD Burner	11b/g/n	None	OneKey TV	2.4G	None	HDMI+AV	Prem 64	09/12
3363-1DU	i5-3450	4Gx2	23" FHD	Multi	None	720p	GT650M 1G	2TB	BD Reader	11b/g/n	None	OneKey TV	2.4G	None	HDMI+AV	Prem 64	09/12

- **23" Full HD frameless display supporting state-of-the-art multi-touch* and FPR 3D technologies***
- **Integrated TV tuner***
- **2.4G wireless keyboard and mouse**
- **Integrated 2.0 speakers (5 watts x 2) supporting DOLBY Advanced Audio v2**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- * **Optional feature**

Processor	Intel® Core™ i5-3450 Processor (4 cores / 4 threads, 3.10 GHz, 6M Cache) Turbo Boost Technology 2.0 (up to 3.50 GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache) Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller Processor in FCLGA1155 socket		Preloaded operating system ²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• McAfee® Internet Security (30-Day Trial)• Cyberlink Power2Go (DVD±RW, Blu-ray)• CyberLink PowerDVD (Blu-ray)• Lenovo IdeaTouch (Touch models)<ul style="list-style-type: none">– PowerCinema– Lenovo VeriTouch– PhotoStudio Paint– Lenovo Ebook and Quick Notes• Touch Games (Touch models)<ul style="list-style-type: none">– Angry Birds– Happy Hit– Curling– Music Star– Link Up– Funny Cube– Firework• Windows Live Essentials• CyberLink YouCam• Microsoft Office 2010 preloaded; purchase product key to activate	
Implementation				
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3 , non-parity, dual-channel capable, four 204-pin SO-DIMM sockets			
Optical	<i>Some:</i> Blu-ray™ disc reader (no Blu-ray media burning), DVD recordable, 12.7mm, tray-in <i>Some:</i> Blu-ray burner, Blu-ray and DVD disk recordable, 12.7mm, tray-in			
SATA disk	2TB , SATA 6.0Gb/s, 3.5" wide, 7200 rpm			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s support, integrated in chipset			
Widescreen display	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen			
Multi-touch	Projected Capacitive Touch (PCT) technology, hardware supports 10-point multi-touch			
FPR 3D	<i>Some:</i> Support FPR 3D technology, 2 pairs of FPR glasses			
Camera	Camera on top of screen, HD720p resolution, fixed focus, with digital microphone			
Controls	Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)			
OneKey TV	Hardware TV, turns the display into a High-def TV at the click of a button (even without powering on the PC)			
Graphics	NVIDIA® GeForce® GT650M , PCI Express® x16, 1GB or 2GB DDR3, DirectX 11;			
Chipset	Intel H77 Express Chipset			
Multicard reader	Multicard reader (MMC, MS, MS PRO, SD, SDHC, SDXC)			
Ports	<i>Rear:</i> Two USB 3.0, two USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in (on some models), AV IN (on some models); <i>Side:</i> Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader			
PCIe Mini Card	Two PCIe Mini Card slots			
11b/g/n ²⁸	11b/g/n wireless ⁴ , PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip			
TV tuner	None			
Bluetooth™	None			
Modem	None			
Ethernet	Gigabit ethernet on planar, Realtek® RTL 8111F			
Audio support	High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2, 2.0 speakers (5 watts x 2)			
Keyboard	2.4G wireless full-size keyboard, 6-row, black			
Mouse	2.4G wireless mouse, black			
Remote control	IR remote control for hardware TV (OneKey TV)			
Power supply	250 watts, universal, auto-sensing			
Dimensions ³	(WxHxD): 22.70" x 16.22" x 4.34"; 576.6mm x 411.9mm x 110.3mm			
Weight ²	From 24.25 lb (11.00 kg), vary by configuration			
Chassis	<i>Front:</i> black with silver decoration; <i>rear:</i> black with silver decoration			
Stand	Adjustable stand (between 15° and 40°), supports cable management			
Wall mount	Meets VESA 100mm mount standard			
			ENERGY STAR® qualified RoHS-compliant	
			Limited Warranty ¹² ⇨ 1-year parts and labor ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ²³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Service upgrade options (in eligible locations): ⁹ <ul style="list-style-type: none">• 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) ⇨ 24x7 ¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686	

See footnotes for important warranty information
 US models announced September 19, 2012

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Lenovo IdeaCentre Q180



Lenovo IdeaCentre Q180
Discrete graphics models



Lenovo IdeaCentre Q180
(Discrete graphics models)



Lenovo IdeaCentre Q180
Discrete graphics models with optical drive



Optional Lenovo Mini Wireless Keyboard N5902
(57Y6678)



Lenovo IdeaCentre Q180
(Integrated graphics models)

Type-model / Part number	Processor	GHz	L2 cache	Memory ⁸	SATA disk	External optical	Graphics	TV tuner	Remote control	802.11 wireless	Color	Keyboard/ Mouse	Win7 preload	Avail date (mm/yy)
3110-2KU	Atom D2700	2.13	1MB	2GBx1	320GB ²		HD 6450A	None	None	11b/g/n ²⁸	Black/Silver	2.4GHz	Prem 64	02/12
3110-2NU	Atom D2700	2.13	1MB	2GBx1	320GB	DVD±RW	HD 6450A	None	None	11b/g/n	Black/Silver	2.4GHz	Prem 64	02/12
3110-2LU	Atom D2700	2.13	1MB	4GBx1	320GB	DVD±RW	HD 6450A	None	None	11b/g/n	Black/Silver	2.4GHz	Prem 64	07/12
57308562	Atom D2550	1.86	1MB	2GBx1	320GB		HD 7450A	None	None	11b/g/n	Black/Silver	2.4GHz	Prem 64	11/12
57308563	Atom D2550	1.86	1MB	4GBx1	320GB	DVD±RW	HD 7450A	None	None	11b/g/n	Black/Silver	2.4GHz	Prem 64	11/12

- **IdeaCentre Q series provide ultimate multimedia experience for home entertainment**
- **Tiny desktop PC, compact space-saving design, just from 22 mm wide**
- **Attaches to the back of selected VESA-compatible monitor for better space saving**
- **(Selected models) Add-on DVD reader/writer or Blu-ray Disk drive**
- **Lossless digital audio output with S/PDIF**
- **Support 1080p full HD multimedia playback and 3D gaming**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**

Processor	Intel® Atom™ D2550 processor (2 cores / 4 threads, 1.86GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology Intel Atom D2700 processor (2 cores / 4 threads, 2.13GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology										Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications¹⁴ (only some listed) • Lenovo Rescue System • Driver and Application Installation • McAfee® VirusScan® Plus (60 days of virus definitions) • CyberLink PowerDVD (Blu-ray)			
Memory	2GB or 4GB std, 4GB max⁹, PC3-10600 1333MHz DDR3, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1066MHz DDR3 memory controller													
Graphics	Some: AMD Radeon™ HD 6450A Graphics, DirectX® 11, 512MB memory, Full HD (1080p) playback support Some: AMD Radeon HD 7450A Graphics, DirectX 11, 512MB memory, Full HD (1080p) playback support External monitor support via analog VGA DB-15 connector / digital HDMI connector													
SATA disk	320GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide													
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in NM10 chipset													
External optical	Some: DVD burner, dual-layer support, slot-in													
Multicard reader	8-in-1 (SD, SDHC, SDXC, MMC, MS, MS Pro, MS Pro Duo, MS XC)													
Chipset	Intel NM10 Express Chipset													
Front ports	Two USB 3.0, line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)													
Rear ports	Four USB 2.0 (external ODD occupies one dedicated USB 2.0 port on some models), ethernet (RJ-45), monitor (VGA DB-15, HDMI), S/PDIF-out													
Audio	High Definition (HD) audio, Realtek® ALC662 codec													
External speakers	None													
Internal speaker	None													
Ethernet	Gigabit ethernet on planar, Realtek RTL8111E-VL													
Modem	None													
Security chip	None													
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek RTL8188CE													
TV tuner	None													
Remote control	None													
Camera	None													
Keyboard	2.4GHz Wireless Mini Keyboard N5902, palm-sized dimensions, keyboard and mouse (optical finger navigation) combo, via micro-size USB receiver													
Mouse	None													
Dimensions ³	w/o optical (excludes stand): (WxHxD): 6.10" x 0.87" x 7.56"; 155mm x 22mm x 192mm with optical (excludes stand): (WxHxD): 6.10" x 1.57" x 7.56"; 155mm x 40mm x 192mm From 5.25 lb (2.38 kg) to 8.02 lb (3.64 kg), vary by configuration													
Weight ²	From 5.25 lb (2.38 kg) to 8.02 lb (3.64 kg), vary by configuration													
Chassis	Black and silver color													
Stand	Detachable stand (silver color)													
Mount bracket	Mount bracket, meets the VESA 75mm and 100mm mount standard													

See footnotes for important warranty information

US model(s) announced November 28, 2012; previous model(s) on February 15 or July 25, 2012

65-watt AC adapter
ENERGY STAR® qualified
RoHS-compliant**Limited Warranty¹**

- ⇒ **1-year parts and labor**
- ⇒ **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, often next business day response time)**
- ⇒ **Service upgrade options (in eligible locations):⁹**
 - **2-year Lenovo Onsite Repair 9x5**
often Next Business Day (78Y1552)
 - **3-year Lenovo Onsite Repair 9x5**
often Next Business Day (78Y1553)
- ⇒ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686**

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(BAFF1-2) November 2012

IdeaCentre™ Q180 (3110) - Discrete (web only models)

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	L2 cache	Memory ⁸	SATA disk	SATA optical	Graphics	TV tuner	Remote control	802.11 wireless	Color	Keyboard/ Mouse	Win7 preload	Avail date (mm/yy)
3110-2AU	Atom D2700	2.13	1MB	2GBx1	500GB ²		HD 6450A	None	None	11b/g/n ²⁸	Black/Silver	USB/USB	Prem 64	11/11
3110-2BU	Atom D2700	2.13	1MB	4GBx1	500GB	DVD±RW	HD 6450A	None	None	11b/g/n	Black/Silver	USB/USB	Prem 64	11/11
3110-2CU	Atom D2700	2.13	1MB	4GBx1	750GB	DVD±RW	HD 6450A	None	None	11b/g/n	Black/Silver	2.4GHz	Prem 64	11/11
3110-2DU	Atom D2700	2.13	1MB	4GBx1	750GB	Blu-ray	HD 6450A	None	None	11b/g/n	Black/Silver	2.4GHz	Prem 64	11/11
3110-2VU	Atom D2550	1.86	1MB	4GBx1	500GB		HD 7450A	None	None	11b/g/n	Black/Silver	USB/USB	Prem 64	09/12
3110-2WU	Atom D2550	1.86	1MB	4GBx1	500GB	DVD±RW	HD 7450A	None	None	11b/g/n	Black/Silver	2.4GHz	Prem 64	10/12
3110-2YU	Atom D2550	1.86	1MB	4GBx1	750GB	Blu-ray	HD 7450A	None	None	11b/g/n	Black/Silver	2.4GHz	Prem 64	11/12
3110-2XU	Atom D2550	1.86	1MB	4GBx1	750GB	DVD±RW	HD 7450A	None	None	11b/g/n	Black/Silver	2.4GHz	Prem 64	11/12

- **IdeaCentre Q series provide ultimate multimedia experience for home entertainment**
- **Tiny desktop PC, compact space-saving design, just from 22 mm wide**
- **Attaches to the back of selected VESA-compatible monitor for better space saving**
- **(Selected models) Add-on DVD reader/writer or Blu-ray Disk drive**
- **Lossless digital audio output with S/PDIF**
- **Support 1080p full HD multimedia playback and 3D gaming**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**

Processor	Intel® Atom™ D2550 processor (2 cores / 4 threads, 1.86GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology Intel Atom D2700 processor (2 cores / 4 threads, 2.13GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology	Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications¹⁴ (only some listed) • Lenovo Rescue System • Driver and Application Installation • McAfee® VirusScan® Plus (60 days of virus definitions) • CyberLink PowerDVD (Blu-ray)
Memory	2GB or 4GB std, 4GB max⁹, PC3-10600 1333MHz DDR3, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1066MHz DDR3 memory controller	
Graphics	<i>Some:</i> AMD Radeon™ HD 6450A Graphics, DirectX® 11, 512MB memory, Full HD (1080p) playback support <i>Some:</i> AMD Radeon HD 7450A Graphics, DirectX 11, 512MB memory, Full HD (1080p) playback support External monitor support via analog VGA DB-15 connector / digital HDMI connector	
SATA disk	500GB (5400 rpm) or 750GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in NM10 chipset	
External optical	<i>Some:</i> DVD burner, dual-layer support, slot-in <i>Some:</i> Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, slot-in	
Multicard reader	8-in-1 (SD, SDHC, SDXC, MMC, MS, MS Pro, MS Pro Duo, MS XC)	
Chipset	Intel NM10 Express Chipset	
Front ports	Two USB 3.0, line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)	
Rear ports	Four USB 2.0 (external ODD occupies one dedicated USB 2.0 port in some models), ethernet (RJ-45), monitor (VGA DB-15, HDMI), S/PDIF-out	
Audio	High Definition (HD) audio, Realtek® ALC662 codec	65-watt AC adapter ENERGY STAR® qualified RoHS-compliant
External speakers	None	
Internal speaker	None	Limited Warranty¹ ⇨ 1-year parts and labor ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, often next business day response time) ⇨ Service upgrade options (in eligible locations):⁹ <ul style="list-style-type: none"> • 2-year Lenovo Onsite Repair 9x5 often Next Business Day (78Y1552) • 3-year Lenovo Onsite Repair 9x5 often Next Business Day (78Y1553) ⇨ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686
Modem	None	
Security chip	None	
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek RTL8188CE	
TV tuner	None	
Remote control	None	
Camera	None	
Keyboard	<i>Some:</i> Mini Keyboard (USB connector), black <i>Some:</i> 2.4GHz Wireless Mini Keyboard N5902, palm-sized dimensions, keyboard and mouse (optical finger navigation) combo, via micro-size USB receiver	
Mouse	<i>Some:</i> Mini Optical Wheel Mouse (USB connector), black	
Dimensions ³	<i>w/o optical (excludes stand): (WxHxD):</i> 6.10" x 0.87" x 7.56"; 155mm x 22mm x 192mm <i>with optical (excludes stand): (WxHxD):</i> 6.10" x 1.57" x 7.56"; 155mm x 40mm x 192mm	
Weight ²	From 5.25 lb (2.38 kg) to 8.02 lb (3.64 kg), vary by configuration	
Chassis	Black and silver color	
Stand	Detachable stand (silver color)	
Mount bracket	Mount bracket, meets the VESA 75mm and 100mm mount standard	

See footnotes for important warranty information

☞ US model(s) announced November 28, 2012;

previous models on November 23, 2011 or September 19 or October 24, 2012

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(BAFF1-1) November 2012



Lenovo IdeaCentre Q190



Lenovo IdeaCentre Q190
(with optical drive)



Lenovo IdeaCentre Q190



Lenovo IdeaCentre Q190
(with optical drive)



Optional Lenovo Mini Wireless Keyboard N5902
(57Y6678)



Lenovo IdeaCentre Q190

Type-model / Part number	Processor	GHz	L2 cache	Memory ⁸	SATA disk	External optical	Graphics	Chipset	TV tuner	802.11 wireless	Color	Keyboard/ Mouse	Win8 preload	Avail date (mm/yy)
57313339	Celeron 887	1.50	2MB	4GBx1	500GB ²	DVD±RW	Intel HD graphics	HM70	None	11b/g/n ²⁸	Black/Silver	N5902	Win8 64	02/13
57313340	Celeron 887	1.50	2MB	4GBx1	320GB		Intel HD graphics	HM70	None	11b/g/n	Black/Silver	N5902	Win8 64	02/13

- *IdeaCentre Q series provide ultimate multimedia experience for home entertainment*
- *Tiny desktop PC, compact space-saving design, from just 22 mm wide*
- *Attaches to the back of selected VESA-compatible monitor for better space saving*
- *(Selected models) Add-on DVD reader/writer or Blu-ray Disk drive*
- *Lossless digital audio output with S/PDIF*
- *Lenovo® Rescue System provides OneKey recovery without booting into Windows*

Processor	Intel® Celeron® 887 processor (2 cores / 2 threads, 1.50GHz, 2MB cache), DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics		Preloaded operating system²⁰ - Windows® 8 64-bit
Memory	8GB max ⁸ , PC3-12800 1600MHz DDR3 , non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller		
Graphics	Intel HD Graphics or Intel HD Graphics 3000 , integrated in processor, External monitor support via analog VGA DB-15 connector / digital HDMI connector		
SATA disk	320GB (5400 rpm) or 500GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide		
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in HM70 or HM76 chipset		
External optical	<i>Some:</i> DVD burner, dual-layer support, slot-in		Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo® Rescue System• Driver and Application Installation• Lenovo Cloud Storage by SugarSync• McAfee® Internet Security (30-Day Trial)• Adobe® Reader®• Microsoft Office 2010 preloaded; purchase product key to activate• Cyberlink Power2Go (DVD±RW models, Blu-ray models)• Cyberlink PowerDVD (DVD±RW models, Blu-ray models)• Lenovo Support• Lenovo Companion
Multicard reader	6-in-1 (SD, SDHC, SDXC, MMC, MS, MS Pro)		
Chipset	Mobile Intel HM70 Express Chipset or Mobile Intel HM76 Express Chipset		
Front ports	Two USB 3.0, line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)		
Rear ports	Four USB 2.0 (external ODD occupies one dedicated USB 2.0 port on some models), ethernet (RJ-45), monitor (VGA DB-15, HDMI), S/PDIF-out, Kensington® Security slot		
Audio	High Definition (HD) audio, Realtek® ALC662 codec		65-watt AC adapter ENERGY STAR® qualified RoHS-compliant
External speakers	None		
Internal speaker	None		
Ethernet	Gigabit ethernet on planar, Realtek RTL8111F-CG		
Modem	None		
Security chip	None		Limited Warranty¹ ⇒ 1-year parts and labor ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, often next business day response time) ⇒ Service upgrade options (in eligible locations):⁹ <ul style="list-style-type: none">• 2-year Lenovo Onsite Repair 9x5 often Next Business Day (78Y1552)• 3-year Lenovo Onsite Repair 9x5 often Next Business Day (78Y1553) ⇒ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek RTL8188EE or RTL8188CE		
TV tuner	None		
Remote control	None		
Camera	None		
Keyboard	2.4GHz Wireless Mini Keyboard N5902, palm-sized dimensions, keyboard and mouse (optical finger navigation) combo, via micro-size USB receiver		
Mouse	None		
Dimensions ³	<i>w/o optical (excludes stand): (WxHxD): 6.10" x 0.87" x 7.56"; 155mm x 22mm x 192mm</i> <i>with optical (excludes stand): (WxHxD): 6.10" x 1.57" x 7.56"; 155mm x 40mm x 192mm</i> From 5.25 lb (2.38 kg) to 7.01 lb (3.18 kg), vary by configuration		
Weight ²	Black and silver color		
Chassis	Detachable stand (silver color)		
Stand	Mount bracket, meets the VESA 75mm and 100mm mount standard		
Mount bracket			

See footnotes for important warranty information
US model(s) announced February 21, 2013

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(BAFF2-2) February 2013

IdeaCentre™ Q190 (Windows 8) - web only models

Personal Systems Reference (PSREF)

Type-model / Part number	Processor	GHz	L2 cache	Memory ⁸	SATA disk	External optical	Graphics	Chipset	TV tuner	802.11 wireless	Color	Keyboard/ Mouse	Win8 preload	Avail date (mm/yy)
57312250	Celeron 887	1.50	2MB	4GBx1	500GB ²	None	Intel HD graphics	HM70	None	11b/g/n ²⁸	Black/Silver	USB/USB	Win8 64	12/12
57312246	Celeron 887	1.50	2MB	4GBx1	1TB	None	Intel HD graphics	HM70	None	11b/g/n	Black/Silver	USB/USB	Win8 64	12/12
57312240	i3-2365M	1.40	3MB	4GBx1	1TB	DVD±RW	Intel HD 3000	HM76	None	11b/g/n	Black/Silver	N5902	Win8 64	01/13
57312245	i3-2365M	1.40	3MB	8GBx1	1TB	Blu-ray	Intel HD 3000	HM76	None	11b/g/n	Black/Silver	N5902	Win8 64	02/13

- **IdeaCentre Q series provide ultimate multimedia experience for home entertainment**
- **Tiny desktop PC, compact space-saving design, from just 22 mm wide**
- **Attaches to the back of selected VESA-compatible monitor for better space saving**
- **(Selected models) Add-on DVD reader/writer or Blu-ray Disk drive**
- **Lossless digital audio output with S/PDIF**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**

Processor	Intel® Celeron® 887 processor (2 cores / 2 threads, 1.50GHz, 2MB cache), DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics Intel Core™ i3-2365M processor (2 cores / 4 threads, 1.40GHz, 3MB cache), DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics 3000	Preloaded operating system ²⁰ - Windows® 8 64-bit Preloaded applications ¹⁴ (only some listed)
Memory	8GB max ⁸ , PC3-12800 1600MHz DDR3, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller	<ul style="list-style-type: none"> • Lenovo® Rescue System • Driver and Application Installation • Lenovo Cloud Storage by SugarSync • McAfee® Internet Security (30-Day Trial) • Adobe® Reader® • Microsoft Office 2010 preloaded; purchase product key to activate • Cyberlink Power2Go (DVD±RW models, Blu-ray models) • Cyberlink PowerDVD (DVD±RW models, Blu-ray models) • Lenovo Support • Lenovo Companion
Graphics	Intel HD Graphics or Intel HD Graphics 3000, integrated in processor, External monitor support via analog VGA DB-15 connector / digital HDMI connector	
SATA disk	500GB (5400 rpm) or 1TB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in HM70 or HM76 chipset	
External optical	Some: DVD burner, dual-layer support, slot-in Some: Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, slot-in	
Multicard reader	6-in-1 (SD, SDHC, SDXC, MMC, MS, MS Pro)	
Chipset	Mobile Intel HM70 Express Chipset or Mobile Intel HM76 Express Chipset	
Front ports	Two USB 3.0, line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)	
Rear ports	Four USB 2.0 (external ODD occupies one dedicated USB 2.0 port on some models), ethernet (RJ-45), monitor (VGA DB-15, HDMI), S/PDIF-out, Kensington® Security slot	
Audio	High Definition (HD) audio, Realtek® ALC662 codec	
External speakers	None	65-watt AC adapter
Internal speaker	None	ENERGY STAR® qualified
Ethernet	Gigabit ethernet on planar, Realtek RTL8111F-CG	RoHS-compliant
Modem	None	
Security chip	None	
11b/g/n ²⁸	11b/g/n wireless ⁴ , Realtek RTL8188EE or RTL8188CE	
TV tuner	None	
Remote control	None	
Camera	None	
Keyboard	Some: Full-size keyboard (USB connector), Fn keys, black Some: 2.4GHz Wireless Mini Keyboard N5902, palm-sized dimensions, keyboard and mouse (optical finger navigation) combo, via micro-size USB receiver	
Mouse	Some: Optical Wheel Mouse (USB connector), black	
Dimensions ³	w/o optical (excludes stand): (WxHxD): 6.10" x 0.87" x 7.56"; 155mm x 22mm x 192mm with optical (excludes stand): (WxHxD): 6.10" x 1.57" x 7.56"; 155mm x 40mm x 192mm	
Weight ²	From 5.25 lb (2.38 kg) to 7.01 lb (3.18 kg), vary by configuration	
Chassis	Black and silver color	
Stand	Detachable stand (silver color)	
Mount bracket	Mount bracket, meets the VESA 75mm and 100mm mount standard	

See footnotes for important warranty information

US model(s) announced February 21, 2013;

previous model(s) on December 13, 2012 or January 30, 2013

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Lenovo IdeaCentre D400



Lenovo IdeaCentre D400



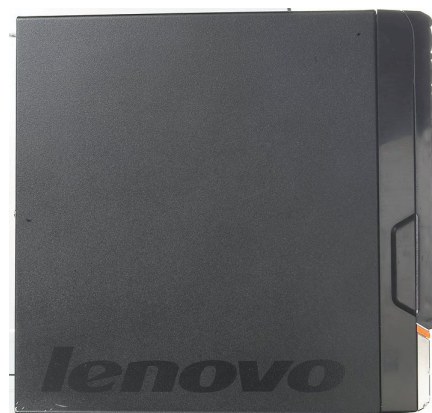
Lenovo IdeaCentre D400



Lenovo IdeaCentre D400 (rear view)



Lenovo IdeaCentre D400



Lenovo IdeaCentre D400 (left view)

Type-model	Processor	GHz	L2 cache	Memory ⁸	SATA disks	SATA optical	Graphics	eSATA	Ethernet	Color	Preload	Avail date
3013-1AU	Atom 230	1.60	512KB	1GB	1TB ² (1TB, 0, 0, 0)	None	GMA 950	eSATA	Gigabit	Black	Windows Home Server	Sep 09
3013-1BU	Atom 230	1.60	512KB	1GB	2TB (1TB, 1TB, 0, 0)	None	GMA 950	eSATA	Gigabit	Black	Windows Home Server	Sep 09
3013-1CU	Atom 230	1.60	512KB	1GB	1TB (1TB, 0, 0, 0)	None	GMA 950	eSATA	Gigabit	Black	Windows Home Server	Sep 09
3013-1DU	Atom 230	1.60	512KB	1GB	2TB (1TB, 1TB, 0, 0)	None	GMA 950	eSATA	Gigabit	Black	Windows Home Server	Sep 09

- **A Digital home storage, smaller than a 9 inch cube and built to store/share music, movies, files and more.**
- **Easy plug-and-play set up and convenient remote access.**
- **Provides four 3.5 inch bays for hard disks, up to 8TB capacity.**
- **Easy USB file transfer, pressing one button to copy USB drive contents to the internal hard drives.**

Processor	Intel® Atom™ Processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache		Small Form Factor	
Implementation	Processor in Micro-FCBGA package in BGA437 socket		<ul style="list-style-type: none">• Black color bezel• 7.9" W X 8.2" D X 8.3" H• 200mm W X 208.6mm D X 212mm H• 14.3 lb (6.5 kg) for maximum configuration	
Memory	1GB std , 2GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, one 240-pin DIMM socket <i>Non-Italics</i> : standard memory in socket; no sockets available		Bay ① 3.5", 1" high, external, standard disk Bay ② 3.5", 1" high, external, optional disk* Bay ③ 3.5", 1" high, external, optional disk* Bay ④ 3.5", 1" high, external, optional disk* * Bay used in some models	
Graphics	Intel Graphics Media Accelerator 950 (GMA 950) , integrated graphics in 945GC, uses main memory, no monitor ports, remote access via network		Slot 1: half-length, low-profile, PCI Express x4	
SATA disks	1TB or 2TB std , up to 8TB capacity, SATA 3Gb/s, 7200 rpm, Four hard disk bays, tool-less, support hot-swap*		Data protection features <ul style="list-style-type: none">• Back up all your home digital devices automatically• Duplicate important data automatically, copy designated data to two internal hard drives for added safety (some models)• Inbuilt flash drive allows easy recovery and prevents data lost in the event of a system problem	
Disk bays	* Need to first remove disk in software via Windows Home Server Console			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7			
SATA DVD±RW	None			
SATA cables	Four SATA cables (each 1-drop to device), Four SATA connectors			
eSATA port	One external SATA (eSATA) port in rear		Available at these retailers <ul style="list-style-type: none">• lenovo.com	
Diskette drive	None			
Media reader	None		Limited Warranty¹ <ul style="list-style-type: none">⇒ 1-year parts and labor⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, often next business day response time)⇒ Service upgrade options (in eligible locations):⁹<ul style="list-style-type: none">• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)⇒ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686	
Chipset	Intel 945GC Express Chipset , I/O Controller Hub 7 RAID [ICH7R] (SATA 3.0Gb/s, ethernet MAC, PCI 2.3, USB, LPC bus)			
Front ports	One USB 2.0 with USB copy button (Easy USB file transfer function)			
Rear ports	Four USB 2.0, one eSATA, ethernet (RJ-45)			
Rear audio ports	None			
Audio	None			
External speakers	None			
Internal speaker	None			
Ethernet	Gigabit ethernet on planar, Marvell® 88E8071			
Modem	None			
Security chip	None			
Keyboard	None			
Mouse	None			
Power supply	200 watts, universal, auto autosensing			
Security	Security slot (in rear for optional Kensington® Microsaver® cable)			
Preloaded operating system²⁰ - Genuine Windows® Home Server		Client applications (Needs customer installation, Client software CD included) <ul style="list-style-type: none">• Windows Home Server Connector Software• Lenovo Home Server EasyAccess utility		
Preloaded applications⁵ <ul style="list-style-type: none">• LightsOut• iTunes Server• LED brightness control• One Key USB backup• IP address configuration• System Information				

See footnotes for important warranty information
 US models announced September 1, 2009

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**Partial list of accessories supported on:
IdeaCentre A, B, C, D, K, and Q series desktops****Storage and removable storage**

Lenovo Portable DVD Burner DB50 (black)	57Y6487
Lenovo Portable DVD Burner DB50 (white)	57Y6488

Keyboard

Lenovo Wired Keyboard K4803A (black)	57Y6566
Lenovo Mini Wireless Keyboard N5901A ⁵²	57Y6599 <i>ann 10/26/10</i>
Lenovo Mini Wireless Keyboard N5901 ⁵² (blk)	57Y6336 <i>ann 12/08/09</i>

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

Mouse

Lenovo Optical Mouse A6010 (red)	57Y6483
Lenovo Optical Mouse A6010 (black)	57Y6255
Lenovo Mini Optical Mouse S10B (white)	55Y9358
Bluetooth Laser Mice N6901A (glossy black)	57Y6482
Lenovo Wireless Mouse N30B (black)	55Y9360
Wireless Mouse N3903A (metal)	57Y6596
Wireless Mouse N3903A (coffee)	57Y6666 <i>ann 01/25/11</i>
Wireless Mouse N3902A (black)	57Y6574
Wireless Mouse N3902A (red)	57Y6673 <i>ann 01/25/11</i>

Multimedia

Lenovo Headset P550	55Y2065
Lenovo Headset P950 (black)	57Y6605 <i>ann 02/08/11</i>
Lenovo mini speaker M220	55Y2033
Lenovo speaker M0520 (black)	57Y6360 <i>ann 02/08/11</i>
Lenovo speaker M0520 (red)	57Y6361 <i>ann 02/08/11</i>

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

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.

- ¹ **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
- ² **Hard disk drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- ³ **Customer Replacement Units (CRUs)** are designed to be replaced by customers during the applicable warranty period. Lenovo will send a technician onsite to perform a repair if remote telephone diagnosis does not isolate the problem, if customer replaceable parts are unable to resolve the problem, or at the request of the customer. For a list of customer replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges.
- ⁴ **Wireless capability:** Requires compatible wireless-enabled options sold separately.
- ⁵ **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.
- 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 **Memory:** For PCs without a separate video card, memory supports both system and video. Accessible system memory is less than the amount stated, depending on video mode.

⁹ **Service upgrade options:** 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.

¹⁰ **Modem speeds:** Public network download 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.

¹⁴ **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.

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.

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.



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