


Type-model	Slot x bay	Processor	GHz	Max turbo (GHz)	Memory <sup>8</sup>	SATA disk	USM portable disk	SATA optical	Graphics	TV tuner	Remote control	802.11 wireless	AC adapter	Keyboard/ Mouse	Win 7 preload	Avail date (mm/yy)
3109-2XU	5x4	i3-2120	3.30		2GBx3	1TB <sup>2</sup>	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

- **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	<b>Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache),</b> integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz) <b>Intel Core i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache),</b> Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz) <b>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache),</b> Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz)										<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64  <b>Preloaded applications<sup>5</sup></b> (only some listed) <ul style="list-style-type: none"> <li>• Lenovo® OneKey Recovery</li> <li>• Driver and Application Installation</li> <li>• McAfee® AntiVirus Plus (60 days of virus definitions)</li> <li>• Adobe® Flash® Player</li> <li>• Power Control Switch</li> <li>• CyberLink Power2Go (DVD±RW, BD burner)</li> <li>• Cyberlink PowerDVD (BD burner)</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• Windows Live Essentials</li> </ul>					
Implementation	Processor in LGA1155 socket															
Memory	32GB max <sup>9</sup> , dual-channel capable, <b>PC3-12800 1600MHz DDR3</b> , non-parity, four 240-pin DIMM sockets * System automatically clocks down for processors with 1333MHz memory controller															
Graphics	Some: <b>NVIDIA® GeForce® GT 620</b> , PCI Express® x16, <b>1GB</b> memory, DirectX® 11, one VGA connector, one HDMI connector, HDCP-compliant Some: <b>NVIDIA GeForce GT 545</b> , PCI Express x16, <b>1.5GB</b> memory, DirectX 11, one VGA connector, one DVI-I connector, one HDMI connector, HDCP-compliant Some: <b>AMD Radeon™ HD 7450</b> , PCI Express x16, <b>1GB</b> memory, DirectX 11, occupy two slots, one VGA connector, one HDMI connector, HDCP-compliant															
SATA disk	<b>1TB or 2TB</b> , 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	Some: Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Some: 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	<b>Intel Z75 Express Chipset</b>															
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"> <li>• Metal Gray (metal brush effect)</li> <li>• 6.89" W X 16.10" D X 14.17" H; 175mm W X 409mm D X 360mm H</li> <li>• From 24.6 lb (11.2 kg), weight may vary by configuration</li> <li>• Toolless cover removal</li> <li>• Toolless disk, optical drive removal</li> </ul>															
Bay	Bay ① 5.25", 1.6" high, access, standard optical Bay ② 5.25", 1.6" high, access, open															
Slot	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 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															
											<b>Limited Warranty<sup>1</sup></b> ⇨ 1-year parts and labor ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>3</sup> , 8 am - 5 pm) ⇨ Service upgrade options (in eligible locations): <sup>9</sup> <ul style="list-style-type: none"> <li>• 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)</li> <li>• 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)</li> </ul> ⇨ 24x7 <sup>14</sup> toll-free support for warranty issues during the warranty period <sup>1</sup> via 877-453-6686					

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

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