

# Personal Systems Reference Lenovo® 3000 and Essential Desktops 2006 - 2013 Withdrawn

Last Update: April 2014 - Version 452



H4xx series Desktop



C3xx series All-In-One





Lenovo C100

Lenovo C100



Lenovo C100

Type-model	Processor	GHz	Memory	Widescreen display	Camera (mega- pixel)	-	SATA disk	SATA	Mini PCle 802.11 wireless	Color	Blue- tooth	KBD	Mouse	Preload	Avail date
	Atom 230	1.60 1.60 1.60	1GB	18.5" WXGA 18.5" WXGA 18.5" WXGA	1.3	GMA GMA GMA	160GB <sup>8</sup> 160GB 320GB	DVD±RW DVD±RW DVD±RW	11b/g <sup>28</sup>	Black	None	PS/2	USB	XP Home XP Home Home Basic	Sep 09 Sep 09 Sep 09

- All-In-One design with 18.5" 16:9 widescreen
   Lenovo® Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Processor	Intel® Atom™ processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache or Intel Atom processor 330 with dual-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 1MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Genuine Windows® XP Home Edition - Some: Genuine Windows Vista® Home Basic 32 Preloaded applications <sup>14</sup>
Memory  SATA DVD±RW SATA disk  Widescreen display	1GB or 2GB std / 2GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, one 200-pin SO-DIMM socket; standard memory in one socket; no sockets available DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in 160GB or 320GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm  18.5" (470.1mm) WXGA (1366x768) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio	Lenovo OneKey Recovery     Driver and Application Installation     Trend Micro™ PC-cillin™ Internet Security 2008     Windows Live™ Toolbar (Vista Models)     Cyberlink Power2Go (DVD±RW)
Camera Controls Graphics	Camera on top of screen, 1.3-megapixel, fixed focus, with mono microphone Power button on right  Intel Graphics Media Accelerator 950 (GMA 950),	Corel® WinDVD®
Chipset  Multicard reader Ports	Intel 945GC Express Chipset, I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, ethernet MAC, USB, LPC bus) None Rear: Two USB 2.0, ethernet (RJ-45), keyboard (PS/2), microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Mini PCI Express 11b/g <sup>28</sup> TV tuner Bluetooth <sup>™</sup> Modem Ethernet Audio support	Some: 11b/g wireless <sup>4</sup> , Mini PCIe adapter, Realtek® RTL8191SE None None None 10/100 ethernet on planar, Realtek 8103EL High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	- 65-watt AC adapter 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
Security Keyboard Mouse Remote control Dimensions³ Weight² Chassis Stand	Supervisor password  PS/2 full-size keyboard USB Optical Wheel Mouse None  (WxHxD): 18.5" x 14.6" x 3.98"; 469mm x 370mm x 101mm 13.22 lb (6.0 kg) Black color Basic folding stand (adjustable between 35° and 54°)	day response time)  Service upgrade options (in eligible locations):  • 3-year Lenovo Onsite Repair 9x5 Next Business Day (43R8882)  24x716 toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

See footnotes for important warranty information US models announced September 15, 2009 US models withdrawn effective July 2010

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Lenovo C200 Black



Lenovo C200 Black



Lenovo C200 Black

					Wide-		Camera						PCIe Mini			
					screen	Touch	(mega-	Integrated	SATA	SATA	TV	Remote		Blue-		Avail
Type-mode	el Pr	ocessor	GHz IV	/lemory	display	screen	pixel)	graphics	disk	optical	tuner	control	802.11	tooth	Preload	date
4005 4 411			1.00	10D	10 5 110	Mana	0.014	ONAN 0450	1000D8		Nama	Name 4	4 la /a./.a 28	Niama	VD Hama	A 10

4025-1AU Atom D410 1.66 1GB 18.5" HD None 0.3M GMA 3150 160GB8 DVD±RW None None 11b/g/n<sup>28</sup> None XP Home Apr 10

- All-In-One design with 18.5" 16:9 wide screen
- Lenovo® Rescue System provides OneKey recovery without booting into Windows
- Easily adjustable stand (-5° to +25° viewing angle)

Processor	Intel® Atom™ Processor D410 with single-core, DMI (Direct Media Interface), integrated DDR2 memory controller (up to 800MHz) Hyper-Threading Technology, and 512KB L2 cache	Preloaded operating system <sup>20</sup> - Genuine Windows® XP Home Edition
Memory	1GB std / 4GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; Non-Italics: standard memory in one sockets; one socket available	Preloaded applications <sup>14</sup> (only some listed)  Lenovo OneKey Recovery
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in <b>160GB</b> , SATA 3.0Gb/s, 2.5" wide, 5400 rpm	Driver and Application Installation     McAfee® VirusScan® Plus 2009
Widescreen display Camera Controls	18.5" (470mm) HD (1366x768) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone Power button, brightness up, brightness down, and display on/off buttons	(60 days of virus definitions)     Cyberlink Power2Go (DVD±RW)     Corel® WinDVD®
Integrated graphics	Intel Graphics Media Accelerator 3150 (GMA 3150), integrated graphics in processor, uses main memory	
Chipset Multicard reader Ports	Intel NM10 Express Chipset 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, xD-Picture Card™) Rear: Three USB 2.0, ethernet (RJ-45), keyboard (PS/2),	65-watt AC adapter
PCIe Mini Card	Side: Two USB 2.0	RoHS-compliant
11b/g/n <sup>28</sup> TV tuner Bluetooth™ Modem Ethernet Audio support	One Mini PCI Express Mini Card slot 11b/g/n wireless <sup>4</sup> , PCIe Mini Card, Broadcom® BCM4313 or Atheros AR9285 None None None 10/100 ethernet on planar, Intel® 82552V High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (3 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	Limited Warranty <sup>12</sup> 1-year parts and labor  Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>23</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)  Service upgrade options
Security Keyboard	Power-on password, supervisor password, security lockhole PS/2 full-size keyboard, black	(in eligible locations):  • 2-year Lenovo In-Home Repair
Mouse Remote control	USB Optical Wheel Mouse, black None	9x5 Next Business Day (78Y1552)  • 3-year Lenovo In-Home Repair
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD) including stand: 18.12" x 15.13" x 6.63"; 460.3mm x 384.3mm x 168.3mm 16.01 lb (7.26kg) Front bezel: black color; back bezel: black color Easily adjustable stand (-5° to +25° viewing angle)	9x5 Next Business Day (78Y1553)  24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

See footnotes for important warranty information US model announced April 28, 2010 US models withdrawn effective October, 2010

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				Wide-		Camera						PCIe Mini			
Type-model	Processor	GHz	Memory		Touch screen		Graphics	SATA disk	SATA optical	Color	TV tuner	Card 802.11	Blue- tooth	Win7 preload	Avail date
4025-1CU A	Atom D510 Atom D510	1.66 1.66	2GB DDR2 2GB DDR2 1GB DDR2 1GB DDR3	18.5" HD 18.5" HD	Touch	0.3M 0.3M	NVIDIA ION NVIDIA ION GMA 3150 GMA 3150	320GB 250GB	DVD±RW DVD±RW	Black Black	None None	11b/g/n 11b/g/n	None None	Prem 32 Prem 32	Apr 10 Aug 10

- All-In-One design with 18.5" 16:9 wide screen
  Some: touchscreen supports one-finger touch
- Lenovo Rescue System provides OneKey recovery without booting into Windows
   Easily adjustable stand (-5° to +25° viewing angle)
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Processor	Intel® Atom™ Processor D510 with dual-core, integrated DDR2 memory controller (up to 800MHz), Hyper-Threading Technology, and 1MB L2 cache Intel Atom Processor D525 with dual-core, integrated DDR2/DDR3 memory controller (up to 800MHz), Hyper-Threading Technology, and 1MB L2 cache	Preloaded operating system <sup>20</sup> - Genuine Windows® 7 Home Premium 32  Preloaded applications <sup>14</sup> (only some listed) - Lenovo OneKey Recovery
Memory	1GB or 2GB std / 4GB max <sup>7</sup> / non-parity, single-channel Some: PC2-5300 667MHz DDR2, two 200-pin SO-DIMM sockets; Some: PC3-6400 800MHz DDR3, two 204-pin SO-DIMM sockets; Non-Italics: standard memory in one socket; one socket available	Driver and Application Installation     McAfee® VirusScan® Plus     (60 days of virus definitions)     Cyberlink Power2Go (DVD±RW)
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in <b>250GB</b> or <b>320GB</b> , SATA 3.0Gb/s, 2.5" wide, 5400 rpm	Corel® WinDVD®     Lenovo IdeaTouch (Touch models)
Widescreen display Camera Controls	18.5" (470mm) HD (1366x768) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; Some: touchscreen supports one-finger touch Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone Power button, brightness up, brightness down, and display on/off buttons	<ul> <li>Lenovo VeriTouch</li> <li>Windows Live Essential</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> </ul>
Graphics	Some: Intel Graphics Media Accelerator 3150 (GMA 3150), in processor; Some: NVIDIA® ION™ graphics processor, DirectX 10, PureVideo® HD technology, 256MB memory	-
Chipset Multicard reader Ports	Intel NM10 Express Chipset 5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity) Rear: Three USB 2.0, ethernet (RJ-45), keyboard (PS/2), Side: Two USB 2.0	65-watt AC adapter  RoHS-compliant
PCIe Mini Card 11b/g/n²8 TV tuner Bluetooth™ Modem Ethernet Audio support	One Mini PCI Express Mini Card slot  11b/g/n wireless <sup>4</sup> , PCIe Mini Card, Broadcom® BCM4313 or Atheros® AR9285 None None None 10/100 ethernet on planar, Intel® 82552V High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (3 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm) Power-on password, supervisor password, security lockhole	Limited Warranty <sup>12</sup> 1-year parts and labor  Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>23</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
Keyboard Mouse Remote control	PS/2 full-size keyboard, black USB Optical Wheel Mouse, black None	<ul> <li>Service upgrade options         (in eligible locations):<sup>9</sup></li> <li>2-year Lenovo In-Home Repair</li> <li>9x5 Next Business Day (78Y1552)</li> </ul>
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD) including stand: 18.12" x 15.13" x 6.63"; 460.3mm x 384.3mm x 168.3mm Non-touchscreen model: 16.0lb (7.26kg); Touchscreen model: 17.1lb (7.76kg) Front bezel: black color; back bezel: black color Easily adjustable stand (-5° to +25° viewing angle)	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

See footnotes for important warranty information US models announced April 28 or August 25, 2010 or March 23, 2011 US models withdrawn effective December, 2012

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(MAUI1-2) December 2012

Type-model	Processor	GHz	Memory	Wide- screen display	Touch screen	Camera (mega- pixel)	Graphics	SATA disk	SATA optical	Color	TV tuner	PCIe Mini Card 802.11	Blue- tooth	Win7 preload	Avail date
4025-3HU 4025-3JU 4025-3KU	Atom D410 Atom D510 Atom D510	1.66		18.5" HD 18.5" HD 18.5" HD	None	0.3M		500GB		Black	None	11b/g/n <sup>28</sup> 11b/g/n 11b/g/n	None	Prem 32 Prem 64 Prem 64	Sep 10 Sep 10 Sep 10

- All-In-One design with 18.5" 16:9 wide screen
   Lenovo® Rescue System provides OneKey recovery without booting into Windows
   Easily adjustable stand (-5° to +25° viewing angle)

Processor	Intel® Atom™ Processor D410 with single-core, integrated DDR2 memory controller (up to 800MHz), Hyper-Threading Technology, and 512KB L2 cache or Intel Atom Processor D510 with dual-core, integrated DDR2 memory controller (up to 800MHz), Hyper-Threading Technology, and 1MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Genuine Windows® 7 Home Premium 32 - Some: Genuine Windows 7 Home Premium 64  Preloaded applications <sup>14</sup> (only some
Memory  SATA optical SATA disk  Widescreen display Camera Controls Graphics	2GB or 4GB std / 4GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, single-channel, two 200-pin SO-DIMM sockets  DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in 320GB or 500GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm  18.5" (470mm) HD (1366x768) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone Power button, brightness up, brightness down, and display on/off buttons  Some: Intel Graphics Media Accelerator 3150 (GMA 3150), in processor; Some: NVIDIA® ION™ graphics processor, DirectX® 10, PureVideo® HD technology, 256MB memory	Preloaded applications** (only some listed)     Lenovo OneKey Recovery     Driver and Application Installation     McAfee® VirusScan® Plus (60 days of virus definitions)     Cyberlink Power2Go (DVD±RW)     Corel® WinDVD®     Lenovo IdeaTouch (Touch models)     Lenovo VeriTouch     Windows Live Essential     Microsoft® Office 2007 Trial (60-day)
Chipset Multicard reader Ports	Intel NM10 Express Chipset 5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity) Rear: Three USB 2.0, ethernet (RJ-45), keyboard (PS/2) Side: Two USB 2.0	65-watt AC adapter RoHS-compliant
PCIe Mini Card 11b/g/n²8 TV tuner Bluetooth™ Modem Ethernet Audio support	One Mini PCI Express Mini Card slot 11b/g/n wireless <sup>4</sup> , PCIe Mini Card, Broadcom® BCM4313 or Atheros® AR9285 None None None 10/100 ethernet on planar, Intel® 82552V High Definition (HD) Audio, Realtek® ALC662 codec / two stereo speakers (3 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm) Power-on password, supervisor password, security lockhole	Limited Warranty <sup>12</sup> 1-year parts and labor Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>23</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Service upgrade options
Keyboard Mouse Remote control Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	PS/2 full-size keyboard, black USB Optical Wheel Mouse, black None  (WxHxD) including stand: 18.12" x 15.13" x 6.63"; 460.3mm x 384.3mm x 168.3mm Non-touchscreen model: 16.0lb (7.26kg); Touchscreen model: 17.1lb (7.76kg) Front bezel: black color; back bezel: black color Easily adjustable stand (-5° to +25° viewing angle)	(in eligible locations): <sup>3</sup> • 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552) • 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553)  24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

See footnotes for important warranty information US models announced September 8, 2010 US models withdrawn effective December, 2012

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Pro- Type-model cesso	GHz	Memory	screen	CCFL or LED		Camera (mega- pixel)	Graphics	SATA disk	SATA optical	Color t	TV tuner	PCle Mini Card 802.11	Blue- tooth	AC adapter	Win7 preload
	0 1.60	2GBx1	18.5" HD	LED	None	0.3M	HD6310	320GB <sup>8</sup>	DVD±RW	Black	None	11b/g/n <sup>28</sup>	None	65W	Home Prem 64
	0 1.60	4GBx1	18.5" HD	LED	None	0.3M	HD6310	500GB	DVD±RW	Black	None	11b/g/n	None	65W	Home Prem 64

- All-In-One design with 18.5" 16:9 wide screen
  Some: touchscreen supports one-finger touch
- Lenovo Rescue System provides OneKey recovery without booting into Windows
   Easily adjustable stand (-5° to +20° viewing angle)
   These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Processor	AMD Accelerated Processor E-350 (dual-core, 1.60GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz)	Preloaded operating system <sup>20</sup> - Genuine Windows® 7 Home Premium 64
Memory	8GB max <sup>7</sup> / non-parity, <b>PC3-10600 1333MHz DDR3</b> *, two 204-pin SO-DIMM sockets; * System automatically clocks down for processors with 1066MHz DDR3 memory controller	Preloaded applications <sup>14</sup> (only some listed)
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in <b>320GB</b> (5400 rpm) or <b>500GB</b> (5400 rpm), SATA 3.0Gb/s, 2.5" wide	Lenovo OneKey Recovery     Driver and Application Installation
Widescreen display	<b>18.5</b> " (470mm) <b>HD (1366x768) TFT color</b> , <b>LED</b> backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio; <i>Some:</i> touchscreen supports one-finger touch	McAfee® VirusScan® Plus     (60 days of virus definitions)     Cyberlink Power2Go (DVD±RW)
Camera Controls	Camera on top of screen, 0.3-megapixel, fixed focus Power button, brightness up, brightness down, and display on/off buttons	CyberLink YouCam     Lenovo IdeaTouch (Touch models)     PowerCinema
Graphics	AMD Radeon HD 6310 Graphics in processor, DirectX® 11, use system memory	<ul> <li>Lenovo VeriTouch</li> </ul>
Chipset Multicard reader	AMD A45 FCH 5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity)	PhotoStudio Paint     Lenovo Ebook and Quick Notes     Windows Live Essential
Ports	Rear: Three USB 2.0, ethernet (RJ-45), keyboard (PS/2), Side: Two USB 2.0	Microsoft® Office 2010 preloaded; purchase product key to activate     Lenovo Dynamic Brightness System
PCIe Mini Card 11b/g/n <sup>28</sup>	Two PCIe Mini Card slots (one full size and one half size) 11b/g/n wireless <sup>4</sup> , PCIe Mini Card, Broadcom®, Realtek®, or Atheros® chip	Lenovo Eye Distance System
TV tuner Bluetooth™ Modem	None None None	Integrated models: 65-watt AC adapter Discrete models: 90-watt AC adapter RoHS-compliant
Ethernet Audio support	Gigabit ethernet on planar, Realtek RTL8111E High Definition (HD) Audio, Realtek ALC662 codec / two stereo speakers (3 watt x 2) / mono microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	Limited Warranty¹²
Security	Power-on password, administrator password, security lockhole	<ul> <li>Customer Replaceable Unit (CRU)</li> <li>parts only (with limited onsite</li> </ul>
Keyboard Mouse Remote control	PS/2 full-size keyboard, black USB Optical Wheel Mouse, black None	service for selected parts <sup>23</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business
Dimensions <sup>3</sup> Weight <sup>2</sup>	(WxHxD) including stand: 18.12" x 15.13" x 6.63"; 460.3mm x 384.3mm x 168.3mm Non-touchscreen model: 12.8lb (5.8kg); Touchscreen model: 13.4lb (6.1kg)	day response time)  Service upgrade options (in eligible locations):9
Chassis Stand	Front bezel: black color; back bezel: black color Easily adjustable stand (-5° to +20° viewing angle)	2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)     3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553)     24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

See footnotes for important warranty information US models announced September 1, 2011 US models withdrawn effective December, 2012

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Lenovo C300



Lenovo C300



Lenovo C300



Lenovo C300



Lenovo C300



Lenovo C300

Type-model	Processor	GHz	Memory	Widescreen	Camera (mega- pixel)		SATA disk	SATA	Mini PCle 802.11 wireless	Color	Blue- tooth	KBD	Mouse	Preload	Avail date
3012-1AU	Atom 230	1.60	1GB	20" WXGA++	1.3	GMA	160GB8							XP Home	Jun 09
3012-1JU	Atom 230	1.60	1GB	20" WXGA++	1.3	GMA	160GB	DVD±RW	11b/g	Black	None	PS/2	USB	XP Home	Sep 09
3012-1OU	Atom 230	1.60	2GB	20" WXGA++	1.3	GMA	320GB	<b>DVD</b> ±RW	11b/g	Black	None	PS/2	USB	Home Basic	Sep09
3012-1EU	Atom 230	1.60	3GB	20" WXGA++	1.3	GMA	320GB	<b>DVD</b> ±RW	11b/g	Black	None	PS/2	USB	Home Basic	Jun 09
3012-1RU	Atom 230	1.60	3GB	20" WXGA++	1.3	GMA	500GB	<b>DVD</b> ±RW	11b/g	Black	None	PS/2	USB	Prem 32	Sep09
3012-2DU	Atom 330	1.60	4GB	20" WXGA++	1.3	HD 4530	640GB	DVD±RW	11b/g	Black	None	PS/2	USB	Prem 32	Jun 09

- All-In-One design with 20" 16:9 widescreen
- Lenovo® Rescue System provides OneKey recovery and OneKey Antivirus without
- booting into Windows
   Advanced hinge design allows changing the screen angle with only one hand, and resting the screen angle at any intermediate position between 12° and 40°

Processor	Intel® Atom™ processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache or Intel Atom processor 330 with dual-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 1MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Genuine Windows® XP Home Edition - Some: Genuine Windows Vista® Home Basic 32 - Some: Genuine Windows Vista Home Premium 32
Memory	1GB, 3GB, or 4GB std / 4GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-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	Preloaded applications <sup>14</sup> Lenovo OneKey Recovery  Driver and Application Installation
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in <b>160GB</b> , <b>320GB</b> , <b>500GB</b> , or <b>640GB</b> , SATA 3.0Gb/s, 3.5" wide, 7200 rpm	Trend Micro™ PC-cillin™ Internet Security 2008     Windows Live™ Toolbox
Widescreen display Camera Controls	20" (508mm) WXGA++ (1600x900) TFT color, anti-glare, CCFL backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus, with mono microphone Brightness up/down buttons, display on/off button, and power button	Windows Live™ Toolbar (Vista Models)     Cyberlink Power2Go (DVD±RW)     Corel® WinDVD®
Graphics	Some: Intel Graphics Media Accelerator 950 (GMA 950), integrated graphics in 945GC, uses main memory Some: ATI™ Mobility Radeon™ HD 4530, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD	
Chipset Multicard reader	Intel 945GC Express Chipset, I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, ethernet MAC, USB, LPC bus) 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card™)	
Ports	Rear: Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)  Left: Two USB 2.0	Available at these retailers • lenovo.com
Mini PCI Express 11b/g <sup>28</sup>	One Mini PCI Express slot 11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312	- 120-watt AC adapter RoHS-compliant
TV tuner Bluetooth™ Modem Ethernet Audio support	None None None 10/100 ethernet on planar, Intel 82562G High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	Limited Warranty¹²
Security	Power-on password, supervisor password, security lockhole	excluding holidays, next business day response time)
Keyboard Mouse Remote control	PS/2 full-size keyboard USB Optical Wheel Mouse None	<ul> <li>⇒ Service upgrade options (in eligible locations):<sup>9</sup></li> <li>• 3-year Lenovo Onsite Repair</li> </ul>
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD): 19.05" x 14.12" x 3.28"; 484mm x 359mm x 83mm 13.8 lb (6.26 kg) Black color Fold-away stand (adjustable between 12° and 40°)	9x5 Next Business Day (43R8882)  24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

See footnotes for important warranty information US models announced June 24 and September 10, 2009 US models withdrawn effective October, 2010

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(CRB1-1) October 2010

Type-model	Processor	GHz	Memory		Camera (mega- pixel)	Discrete graphics	SATA disk	SATA optical	Remote	Mini PCle 802.11 wireless	Color	Blue- tooth	Win7 preload	Avail date
3012-2VU 3012-2KU	Atom 330 Atom 330	1.60 1.60		20" WXGA++ 20" WXGA++						11b/g <sup>28</sup> 11b/g			Prem 32 Prem 32	

- All-In-One design with 20" 16:9 widescreen
   Lenovo® Rescue System provides OneKey recovery without booting into Windows
- Advanced hinge design allows changing the screen angle with only one hand, and resting the screen angle at any intermediate position between 12° and 40°

Processor	Intel® Atom™ processor 330 with dual-core, Hyper-Threading Technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 1MB L2 cache	Preloaded operating system <sup>20</sup> - Genuine Windows® 7 Home Premium 32
Memory	<b>2GB</b> or <b>3GB</b> std / 4GB max <sup>7</sup> / <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-Italics:</i> standard memory in one sockets; one sockets available	Preloaded applications <sup>14</sup> (only some listed)  Lenovo OneKey Recovery  Driver and Application Installation
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in <b>320GB</b> or <b>500GB</b> , SATA 3.0Gb/s, 3.5" wide, 7200 rpm	McAfee® VirusScan® Plus 2009 (60 days of virus defi nitions)     On the state of the state
Widescreen display Camera Controls	20" (508mm) WXGA++ (1600x900) TFT color, anti-glare, CCFL backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus, with mono microphone Brightness up/down buttons, display on/off buttons, and power button	Cyberlink Power2Go (DVD±RW)     Corel® WinDVD®
Discrete Graphics	• ATI™ Mobility Radeon™ HD 4530, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD	
Chipset	Intel 945GC Express Chipset, I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, ethernet MAC, USB, LPC bus)	
Multicard reader	6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card™)	
Ports	Rear: Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)  Left: Two USB 2.0	
Mini PCI Express	11b/g wireless⁴, Mini PCIe adapter, Broadcom® BCM4312	120-watt AC adapter RoHS-compliant
TV tuner Bluetooth™	None None	Limited Warranty <sup>12</sup>
Modem Ethernet Audio support	None 10/100 ethernet on planar, Intel 82562G High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm) Power-on password, supervisor password, security lockhole	<ul> <li>         □ 1-year parts and labor         □ Customer Replaceable Unit (CRU)         parts only (with limited onsite         service for selected parts<sup>23</sup>,         ଃ am - 5 pm, Mon - Fri coverage         excluding holidays, next business     </li> </ul>
Keyboard Mouse Remote control	PS/2 full-size keyboard USB Optical Wheel Mouse None	<ul> <li>day response time)</li> <li>⇒ Service upgrade options         (in eligible locations):<sup>9</sup></li> <li>• 3-year Lenovo Onsite Repair</li> </ul>
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD): 19.05" x 14.12" x 3.28"; 484mm x 359mm x 83mm 13.8 lb (6.26 kg) Black color Fold-away stand (adjustable between 12° and 40°)	9x5 Next Business Day (43R8882)  24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

See footnotes for important warranty information

US model announced on November 3 and December 17, 2009; US models withdrawn effective October, 2010

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Lenovo C315



Lenovo C315



Lenovo C315



Lenovo C315

AND ALL THUNG D

		Wide-	Multi-	Camera		PCIe Mini							
Type-model	Processor	screen GHz Memory display	Touch screen	(mega- pixel)	Discrete graphics	SATA disk	SATA optical	TV tuner	Remote control	Card 802.11	Blue- tooth	Win7 preload	Avail date
-													

4022-1AU Athlon II X2 250u 1.60 2GB 20" HD+ *Multi* 0.3M HD 4530 320GB8 DVD±RW None None 11b/g<sup>28</sup> None Prem 32 Apr 10

- All-In-One design with 20" 16:9 multi-touch screen
   Lenovo® Rescue System provides OneKey recovery without booting into Windows
- Advanced hinge design allows changing the screen angle with only one hand, and resting the screen angle at any intermediate position between 12° and 40°

Processor	AMD® Athlon™ II X2 Processor 250u with dual-core, 3200MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR2 memory controller, and 2MB L2 cache (1MB per core)	Preloaded operating system <sup>20</sup> - Genuine Windows® 7 Home Premium 32
Memory	<b>2GB</b> std / 4GB max <sup>7</sup> / <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-Italics:</i> standard memory in one sockets; one socket available	Preloaded applications <sup>14</sup> (only some listed)  • Lenovo OneKey Recovery
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in <b>320GB</b> , SATA 3.0Gb/s, 3.5" wide, 7200 rpm	<ul> <li>Driver and Application Installation</li> <li>McAfee® VirusScan® Plus</li> </ul>
Widescreen display Camera Controls	20" (508mm) HD+ (1600x900) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, MultiTouch Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone Power button, touch-sensitive buttons for brightness +/-, volume +/-, and display on/off ATI™ Mobility Radeon™ HD 4530, PCI Express® x16, 512MB memory.	(60 days of virus definitions)  Cyberlink Power2Go (DVD±RW)  Lenovo IdeaTouch  PowerCinema  Lenovo VeriTouch  AutoCollage Touch
Discrete Graphics	DirectX® 10, ATI Avivo™ HD	Windows Live Essential
Chipset Multicard reader	AMD 690M Chipset, SB600 south bridge 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card™)	Microsoft® Office 2007 Trial (60-day)
Ports	Rear: Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)  Side: Two USB 2.0	120-watt AC adapter RoHS-compliant
PCIe Mini Card 11b/g <sup>28</sup> TV tuner Bluetooth™ Modem Ethernet Audio support	Two Mini PCI Express Mini Card slots 11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312 None None None 10/100 ethernet on planar, Broadcom® BCM5787 High Definition (HD) Audio, RealTek® ALC262 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	Limited Warranty <sup>12</sup> 1-year parts and labor  Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>23</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
Security	Power-on password, supervisor password, security lockhole	Service upgrade options (in eligible locations):9
Keyboard Mouse Remote control	PS/2 full-size keyboard, black USB Optical Wheel Mouse, black None	2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)     3-year Lenovo In-Home Repair
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD): 19.05" x 14.12" x 2.56"; 484mm x 359mm x 65mm 16.3 lb (7.4 kg) Front bezel: brown color; back bezel: black color Fold-away stand (adjustable between 12° and 40°)	9x5 Next Business Day (78Y1553)  24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686

See footnotes for important warranty information US model(s) announced April 28, 2010
US model(s) withdrawn effective April 2013

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Type-model	Processor	GHz I	Memory	Wide- screen display	Multi- Touch screen	Camera (mega- pixel)	Discrete graphics	SATA disk	SATA optical	TV tuner	Remote control	Blue- tooth	Win7 preload	Avail date
	Athlon II X2 250u Athlon II X2 250u													

- All-In-One design with 20" 16:9 multi-touch screen
   Lenovo® Rescue System provides OneKey recovery without booting into Windows
- Advanced hinge design allows changing the screen angle with only one hand, and resting the screen angle at any intermediate position between 12° and 40°

Processor	AMD® Athlon™ II X2 Processor 250u with dual-core, 3200MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR2 memory controller, and 2MB L2 cache (1MB per core)	Preloaded operating system <sup>20</sup> - Some: Genuine Windows® 7 Home Premium 32
Memory	<b>2GB</b> or <b>4GB</b> std / 4GB max <sup>7</sup> / <b>PC2-5300 667MHz DDR2</b> , non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available;	- Some: Genuine Windows 7 Home Premium 64 Preloaded applications <sup>14</sup> (only some
SATA DVD±RW SATA disk	Non-Italics: standard memory in one sockets; one socket available  DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in  320GB or 500GB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm	listed)  Lenovo OneKey Recovery  Driver and Application Installation
Widescreen display Camera Controls	20" (508mm) HD+ (1600x900) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, MultiTouch Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone Power button, touch-sensitive buttons for brightness +/-, volume +/-, and display on/off	McAfee® VirusScan® Plus (60 days of virus defi nitions) Cyberlink Power2Go (DVD±RW) Lenovo IdeaTouch PowerCinema
Discrete Graphics	ATI™ Mobility Radeon™ HD 4530, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD	<ul><li>Lenovo VeriTouch</li><li>AutoCollage Touch</li></ul>
Chipset Multicard reader Ports	AMD 690M Chipset, SB600 south bridge 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card™) Rear: Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), TV antenna connector,	Windows Live Essential     Microsoft® Office 2007 Trial (60-day)
	IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)  Side: Two USB 2.0	120-watt AC adapter RoHS-compliant
PCIe Mini Card 11b/g <sup>28</sup> TV tuner	Two Mini PCI Express Mini Card slots 11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312 AverMedia Hybrid TV MiniCard A317, PCIe Mini Card adapter, supports analog (NTSC) and digital (ATSC) signal	Limited Warranty¹²
Bluetooth™ Modem Ethernet Audio support	None None 10/100 ethernet on planar, Broadcom® BCM5787 High Definition (HD) Audio, RealTek® ALC262 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm),	<ul> <li>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>23</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business</li> </ul>
Security	headphone jack (3.5 mm)  Power-on password, supervisor password, security lockhole	day response time)  Service upgrade options
Keyboard Mouse Remote control	PS/2 full-size keyboard, black USB Optical Wheel Mouse, black Philips®Win7 MCE remote control (40-button)	<ul> <li>(in eligible locations):<sup>9</sup></li> <li>2-year Lenovo In-Home Repair</li> <li>9x5 Next Business Day (78Y1552)</li> <li>3-year Lenovo In-Home Repair</li> </ul>
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD): 19.05" x 14.12" x 2.56"; 484mm x 359mm x 65mm 16.3 lb (7.4 kg) Front bezel: brown color; back bezel: black color Fold-away stand (adjustable between 12° and 40°)	9x5 Next Business Day (78Y1553)  24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686

See footnotes for important warranty information US model(s) announced April 28, 2010
US model(s) withdrawn effective April 2013

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Lenovo C225/C325



Lenovo C225/C325



Lenovo C225/C325



Lenovo C225/C325



Lenovo C225/C325

	Pro-			Wide- screen	CCFL or	Touch	Camera (mega-		SATA	SATA		τv	PCIe Mini Card	Blue-	Kevboard/	Win7
Type-model		GHz	Memory					Graphics			Color	tuner	802.11	tooth	Mouse	preload
3079-2AU 3079-3AU															USB/Black USB/White	

- All-In-One design with 18.5" 16:9 wide screen
- SRS® Premium Sound audio enhancement for immersive surround sound
- Audio-in port to play music from your MP3 player without switching on the computer
   Lenovo Rescue System provides OneKey recovery without booting into Windows
   Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment
   These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Processor	AMD Accelerated Processor E-450 (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6320 Graphics, integrated DDR3 memory controller (up to 1333MHz)	Preloaded operating system <sup>20</sup> - Genuine Windows® 7 Home Premium 64
Memory	8GB max <sup>7</sup> / non-parity, <b>PC3-10600 1333MHz DDR3</b> , two 204-pin SO-DIMM sockets	Preloaded applications <sup>14</sup> (only some
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in 500GB (7200 rpm) or 1TB (7200 rpm), SATA 3.0Gb/s, 3.5" wide	listed)  Lenovo OneKey Recovery
Widescreen display Multi-touch Camera Controls	18.5" (470mm) HD (1366x768) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio None Camera on top of screen, 0.3-megapixel, fixed focus Power on/off, menu, left, right, and display on/off buttons	Driver and Application Installation McAfee® VirusScan® Plus (60 days of virus definitions) Cyberlink Power2Go (DVD±RW) CyberLink YouCam Lenovo Fun Zone
Graphics	AMD Radeon HD 6320 Graphics in processor, DirectX® 11, use system memory	Power Setting
Chipset Multicard reader Ports	AMD A45 FCH 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity) Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped	SRS Premium Sound     Windows Live Essentials     Microsoft® Office 2010 preloaded; purchase product key to activate     Lenovo Dynamic Brightness System
	with TV tuner Side: Two USB 2.0	Lenovo Eye Distance System
PCIe Mini Card 11b/g/n <sup>28</sup> TV tuner Bluetooth™	Two PCIe Mini Card slots (one full size and one half size) 11b/g/n wireless <sup>4</sup> , PCIe half Mini Card, Broadcom <sup>®</sup> , Realtek <sup>®</sup> , or Atheros <sup>®</sup> chip None None	65-watt AC adapter ENERGY STAR® qualified RoHS-compliant
Modem Ethernet Audio support	None Gigabit ethernet on planar, Realtek RTL8111E High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™ certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)	Limited Warranty <sup>12</sup>
Security	Power-on password, administrator password, security lockhole	service for selected parts <sup>23</sup> , 8 am - 5 pm, Mon - Fri coverage
Keyboard	Some: USB full-size keyboard, black Some: USB full-size keyboard, white	excluding holidays, next business day response time)
Mouse	Some: USB Optical Wheel Mouse, black Some: USB Optical Wheel Mouse, white	Service upgrade options (in eligible locations):9
Remote control	None	2-year Lenovo In-Home Repair
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD) including stand: 18.09" x 15.59" x 9.38"; 459.5mm x 396.1mm x 238.2mm From 12.65lb (5.74kg), vary by configuration Front bezel: black or white color; back bezel: black or white color Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)	9x5 Next Business Day (78Y1552) • 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) • 24x7¹¹ toll-free support for warranty issues during the warranty period¹² via 877-453-6686

See footnotes for important warranty information US model(s) announced December 21, 2011 US model(s) withdrawn effective April 2013

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	Wide- Multi- Camera PCle Mini													
Pro- Type-model cessor	GHz	Memory	screen display		(mega- pixel)	Graphics	SATA disk	SATA optical	Color	TV tuner	Card 802.11	Remote control HDMI-out	Keyboard/ Mouse	Win7 preload
3095-8AU E-450 3095-3BU E-450 3095-4BU E-350	1.65	4GBx1	20.0" HD+	None	0.3M	HD 6320	500GB	$DVD \pm RW$	Black	None	11b/g/n	None HDMI-out		Prem 64

- All-In-One design with 20.0" 16:9 wide screen with optional multi-touch
   SRS® Premium Sound audio enhancement for immersive surround sound
   Audio-in port to play music from your MP3 player without switching on the computer
   Lenovo Rescue System provides OneKey recovery without booting into Windows
   Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment
   These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Processor	AMD Accelerated Processor E-350 (dual-core, 1.60GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz)  AMD Accelerated Processor E-450 (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon HD 6320 Graphics, integrated DDR3 memory controller (up to 1333MHz)	Preloaded operating system <sup>20</sup> - Genuine Windows <sup>®</sup> 7 Home Premium 64 Preloaded applications <sup>14</sup> (only some listed)
Memory	8GB max <sup>7</sup> / non-parity, <b>PC3-10600 1333MHz DDR3</b> *, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066MHz DDR3 memory controller	Lenovo OneKey Recovery     Driver and Application Installation     McAfee® VirusScan® Plus
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in <b>500GB</b> (7200 rpm), SATA 3.0Gb/s, 3.5" wide	(60 days of virus definitions)  • Cyberlink Power2Go (DVD±RW)
Widescreen display Multi-touch Camera Controls	20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio None Camera on top of screen, 0.3-megapixel, fixed focus Power on/off, menu, left, right, and display on/off buttons	CyberLink YouCam Lenovo Fun Zone Power Setting SRS Premium Sound Windows Live Essentials Microsoft® Office 2010 preloaded;
Graphics	AMD Radeon HD 6320 Graphics in processor, DirectX® 11, use system memory	purchase product key to activate
Chipset Multicard reader	AMD A45 FCH 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity)	Lenovo Dynamic Brightness System     Lenovo Eye Distance System
Ports	Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out Side: Two USB 2.0	- 65-watt AC adapter
PCIe Mini Card 11b/g/n <sup>28</sup> TV tuner	Two PCIe Mini Card slots (one full size and one half size) 11b/g/n wireless <sup>4</sup> , PCIe half Mini Card, Broadcom <sup>®</sup> , Realtek <sup>®</sup> , or Atheros <sup>®</sup> chip None	ENERGY STAR® qualified RoHS-compliant
Bluetooth™	None	Limited Warranty <sup>12</sup>
Modem Ethernet	None Gigabit ethernet on planar, Realtek RTL8111E	1-year parts and labor
Audio support	High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™ certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)	Customer Replaceable Unit (CRU)     parts only (with limited onsite     service for selected parts <sup>23</sup> ,     8 am - 5 pm, Mon - Fri coverage
Security	Power-on password, administrator password, security lockhole	excluding holidays, next business
Keyboard Mouse Remote control	USB full-size keyboard, black USB Optical Wheel Mouse, black None	day response time)  Service upgrade options (in eligible locations):9
Dimensions <sup>3</sup> Weight <sup>2</sup>	(WxHxD) including stand: 19.65" x 16.82" x 9.38"; 499.0mm x 427.2mm x 238.2mm  Non-touch models: from 13.9lb (6.3kg), vary by configuration  Touch models: from 15.7lb (7.1kg), vary by configuration	2-year Lenovo In-Home Repair     9x5 Next Business Day (78Y1552)     3-year Lenovo In-Home Repair
Chassis Stand	Front bezel: black or white color; back bezel: black or white color Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)	9x5 Next Business Day (78Y1553)  24x7¹⁶ toll-free support for warranty issues during the warranty period¹²  via 877-453-6686

See footnotes for important warranty information US model(s) March 21 or August 29, 2012 US model(s) withdrawn effective April 2013

Type-model	Pro- cessor	GHz	Memory	screen	CCFL or LED	Multi- Touch screen	Camera (mega- pixel)		SATA disk	SATA optical	Color	TV tuner	PCIe Mini Card 802.11		Keyboard/ Mouse	Win7 preload
3095-2AU	E-450	1.65	4+2GB	20.0" HD+	LED		0.3M	HD 6320	1TB <sup>8</sup>	DVD±RW	White		11b/g/n <sup>28</sup>		USB/White	Prem 64
3095-3AU	E-450	1.65	4GBx2	20.0" HD+	LED		0.3M	HD 6320	1TB	DVD±RW	Black		11b/g/n		USB/Black	Prem 64
3095-4AU	E-450	1.65	4+2GB	20.0" HD+	LED	Multi	0.3M	HD 6320	1TB	<b>DVD</b> ±RW	Black	TV	11b/g/n	Remote/Black	USB/Black	Prem 64
3095-5AU	E-450	1.65	4+2GB	20.0" HD+	LED		0.3M	HD 6320	1TB	DVD±RW	White	TV	11b/g/n	Remote/White	USB/White	Prem 64
3095-6AU	E-450	1.65	4GBx2	20.0" HD+	LED		0.3M	HD 6320	1TB	<b>DVD</b> ±RW	Black	TV	11b/g/n	Remote/Black	USB/Black	Prem 64
3095-8BU	E-350	1.60	4GBx2	20.0" HD+	LED		0.3M	HD 6310	1TB	DVD±RW	White		11b/g/n		USB/White	Prem 64
3095-6BU	E-450	1.65	4GBx2	20.0" HD+	LED		0.3M	HD 6320	1TB	<b>DVD</b> ±RW	White	TV	11b/g/n	Remote/White	USB/White	Prem 64
3095-2CU	E-450	1.65	4GBx2	20.0" HD+	LED		0.3M	HD 6320	1TB	DVD±RW	Black	TV	11b/g/n	Remote/Black	USB/Black	Prem 64
3095-7BU	E-450	1.65	4GBx2	20.0" HD+	LED		0.3M	HD 6320	1TB	DVD±RW	Black		11b/g/n		USB/Black	Prem 64

- All-In-One design with 20.0" 16:9 wide screen with optional multi-touch
- SRS® Premium Sound audio enhancement for immersive surround sound
- Audio-in port to play music from your MP3 player without switching on the computer
  Lenovo Rescue System provides OneKey recovery without booting into Windows
- Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment
   These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

Processor	AMD Accelerated Processor E-350 (dual-core, 1.60GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz)  AMD Accelerated Processor E-450 (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon HD 6320 Graphics, integrated DDR3 memory controller (up to 1333MHz)	Preloaded operating system <sup>20</sup> - Genuine Windows® 7 Home Premium 64  Preloaded applications¹⁴ (only some listed)				
Memory	8GB max <sup>7</sup> / non-parity, <b>PC3-10600 1333MHz DDR3*</b> , two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066MHz DDR3 memory controller	Lenovo OneKey Recovery     Driver and Application Installation     McAfee® VirusScan® Plus				
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in 1TB (7200 rpm), SATA 3.0Gb/s, 3.5" wide	(60 days of virus definitions) • Cyberlink Power2Go (DVD±RW)				
Widescreen display Multi-touch Camera Controls	20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio Some: multi-touch, 2-point support Camera on top of screen, 0.3-megapixel, fixed focus Power on/off, menu, left, right, and display on/off buttons	CyberLink YouCam     Lenovo Fun Zone     Power Setting     SRS Premium Sound     Lenovo IdeaTouch (Touch models)     PowerCinema				
Graphics	AMD Radeon HD 6320 or HD 6310 Graphics in processor, DirectX® 11, use system memory	<ul><li>Lenovo VeriTouch</li><li>PhotoStudio Paint</li></ul>				
Chipset Multicard reader Ports	AMD A45 FCH 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity) Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner Side: Two USB 2.0	Lenovo Ebook and Quick Notes     Windows Live Essentials     Microsoft® Office 2010 preloaded; purchase product key to activate     Lenovo Dynamic Brightness Syste     Lenovo Eye Distance System				
PCIe Mini Card 11b/g/n <sup>28</sup> TV tuner Bluetooth™	Two PCIe Mini Card slots (one full size and one half size) 11b/g/n wireless <sup>4</sup> , PCIe half Mini Card, Broadcom®, Realtek®, or Atheros® chip Some: ATSC tuner, supports analog and digital signal, PCIe Mini Card None	65-watt AC adapter ENERGY STAR® qualified RoHS-compliant				
Modem Ethernet Audio support	None  Gigabit ethernet on planar, Realtek RTL8111E  High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™ certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)  Power-on password, administrator password, security lockhole	Limited Warranty¹²               1-year parts and labor				
Keyboard	Some: USB full-size keyboard, black	8 am - 5 pm, Mon - Fri coverage excluding holidays, next business				
Mouse	Some: USB full-size keyboard, white Some: USB Optical Wheel Mouse, black Some: USB Optical Wheel Mouse, white	day response time)  Service upgrade options (in eligible locations):9				
Remote control	Some: MCE remote control, via IR, black Some: MCE remote control, via IR, white	2-year Lenovo In-Home Repair     9x5 Next Business Day (78Y1552)				
Dimensions <sup>3</sup> Weight <sup>2</sup>	(WxHxD) including stand: 19.65" x 16.82" x 9.38"; 499.0mm x 427.2mm x 238.2mm  Non-touch models: from 13.9lb (6.3kg), vary by configuration  Touch models: from 15.7lb (7.1kg), vary by configuration	• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) 24x7 <sup>16</sup> toll-free support for warranty				
Chassis Stand	Front bezel: black or white color; back bezel: black or white color Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)	issues during the warranty period <sup>12</sup> via 877-453-6686				

See footnotes for important warranty information

US model(s) announced December 21, 2011 or June 6 or September 19, 2012

US model(s) withdrawn effective April 2013

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(AGNA1-1) April 2013

Slot x Type-mod bay	Intel L2 Processor GHz cache		Diskette Media drive reader		EIDE optical	Integrate graphic				Limited Avail varranty <sup>1</sup> date
8253-26U 4x4 Pei 8253-27U 4x4 Pei 8253-28U 4x4 Pei 8253-3F1U 4x4 Pei 8253-3FU 4x4 Pei 8253-3HU 4x4 Pei 8253-3HU 4x4 Pei 8253-4HU 4x4 Pei 8253-4HU 4x4 Pei 8253-4HU 4x4 Pei 8253-5CU 4x4 Pei 8253-5CU 4x4 Pei 8253-D6U 4x4 Pei 8253-D6U 4x4 Pei 8253-D6U 4x4 Pei 8253-E1U 4x4 Pei 8253-E1U 4x4 Pei	ntium 4 516 2.93 1MB 5 ntium 4 521 2.80 1MB 8 ntium 4 521 3.06 1MB 5 ntium 4 524 3.06 1MB 5 ntium 4 524 3.06 1MB 5 ntium 4 524 3.06 1MB 5 ntium 4 541 3.20 1MB 8 ntium 4 541 3.20 1MB 8 ntium 4 630 3.00 2MB 8 ntium 4 640 3.20 2MB 8 ntium 4 640 3.20 2MB 8	33MHz 256MB 33MHz 512MB 33MHz 512MB 00MHz 512MB 00MHz 556MB 00MHz 512MB 33MHz 256MB 33MHz 256MB 33MHz 256MB 33MHz 512MB 00MHz 512MB 00MHz 512MB 00MHz 512MB 00MHz 512MB 00MHz 512MB 00MHz 512MB 00MHz 512MB 00MHz 512MB	Dskte Dskte 9-in-1 Dskte Dskte Dskte	80GB C 80GB C 80GB C 80GB C 80GB C 160GB C 80GB C 160GB D 80GB C 160GB C 80GB C	CD COMBO COMBO COMBO CD COMBO	SiS Mira	age 661FX	Yes Spkrs Yes Spkrs Yes Spkrs Yes Spkrs	XP Pro/SB XP Pro/SB XP Pro Home XP Pro/SB XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	1-yr Feb 06 1-yr Feb 06 1-yr Feb 06 1-yr Feb 06 1-yr Apr 06 1-yr May 06 1-yr May 06 1-yr July 06 1-yr Feb 06
Positioning	The smart choice for sma		24 541 620	or 640 with		Tower				Ontical
L2 cache Implementation Memory - std/max Memory	Intel® Pentium® 4 Procesingle-core, EM64T, Hypr EIST (6xx only), Execute and 533 or 800MHz bus 1MB or 2MB std and ma. Processor and L2 cache® 256, 512MB or 1GB std. Two 184-pin DIMM sockesocket); others: one socke	er-Threading tec Disable Bit (521 x / ECC / full spe in FC-LGA4 in L / 2GB max ets / E2U/5CU: tvet used / PC3200	chnology (521/5 /524/6xx only) eed .GA775 socket vo sockets used 400MHz DDR	524/6xx or , d (512MB 1 / non-pa	each	7.1" W X 180mm \ 20.01 to Handle o	17.5" D X N X 445mr 20.3 lb (9.7 on top front crew for rer	n D X 392mı 1 to 9.2 kg)	m H	diskette
Graphics	CAS latency 3 (CL3) / unl						25", 1.6" hig 25", 1.6" hig		std op	otical
Graphics	graphics in north bridge / one 15-pin analog D-sub	uses main men connector / AGI	nory (32 to 64N	1B) / 200N	ИHz/   E	3.5 ay	", 1" high,		or me	opt diskette dia reader
SATA disk SATA controller SATA cables EIDE CD EIDE Combo EIDE DVD±RW	80 or 160GB / SATA300 Serial ATA 1.0 / 150 MB/s One SATA cable (one 1-c Some: 48X-20X <sup>4</sup> CD-RC Some: 48X/32X/48X/16) Some: DVD and CD bur	sec SATA150 / ir Irop to disk) / 2 \$ DM K Max <sup>11</sup> CD-RW	SAŤA connecto /DVD-ROM Co	nar S	Slot 1: hal Slot 2: hal Slot 3: hal	f-length, fu f-length, fu f-length, fu	II-height, 32- II-height, 32- II-height, 32- II-height, 32-	bit AGF bit PCI bit PCI	98X 2.3 2.3	
EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	Model F1U: DVD and C Enhanced IDE / ATA-100 One 2-drop EIDE cable to Some: 3.5" 1.44MB disk Some: 9-in-1 media read	D burner / Supe / integrated in l/ o optical / two E ette drive	r Multi-Burner I O Controller H IDE connectors	(part 41N Ir	·	entire sy - Padloo - No se	k to secure to ystem to fixe ck loop (in recurity slot (in	ooth cov d objec ar for o rear fo	t: pt padlock) r optional	
Chipset	SiS 661FX Chipset / SiS with AGP 8X support / Si PCI 2.3 bus, USB, Low P serial, parallel, diskette, k	S964 south brid in Count Interfa	ge for SATA 15 ce / ITE Tech® a	0, ATA-10	0/133 EI	IDE,	<ul><li>No key</li><li>Power-o</li><li>Adminis</li></ul>	ngton Micros ylock on password trator passw quence cont	ord	bie)
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, microphon Four USB 2.0, one 9-pin mouse (PS/2), ethernet (Microphone-in (mono), lin Integrated digital audio / Some: desktop speakers	serial, parallel (2 RJ-45), monitor ne-in (stereo), lir AC '97 interface	25-pin), keyboa (DB-15) ne-out (stereo) / Realtek ALC	all 3.5mn 555 code	, n] C	logo	<ul><li>Boot wit</li><li>Unatten</li><li>Hard dis</li><li>Serial p</li></ul>	hout keyboa ded start mo sk I/O contro ort I/O contro port I/O con	rd, mou de I ol	ise, diskette
Beeper Ethernet	One internal beeper 10/100 ethernet on syste PCI 2.3 / Wake on LAN®	mboard / Realte / PXE 2.0 and R	k 8100C contro PL remote boo	oller (MAC	C/PHY) /		□ 1-year	LIMITED WA parts and la tional Warra	oor	
Modem Keyboard Mouse Power supply	Some: 56K <sup>10</sup> V.90 data/fa 104-key Preferred Pro Fu Optical Wheel Mouse (US 250 watts / universal / ma	ıll-size keyboard SB only), 400 dp	(6-pin PS/2 co				<ul><li>Custor parts a</li><li>8 am -</li></ul>	ner Replace re available w 5 pm, Mon - ing holidays	able Un vith ons Fri cove	it (CRU) ite service <sup>3</sup> ,
Microsoft® Window Preload with Wir Microsoft Window	Recovery™ te nager Security™ 2005 dition agnostics) o ogle	Center™ wit Corel Photo AOL and Ea Some: Micro Roxio Digita InterVideo \ InterVideo \ CD Some: Micro License - CD Lotus® Sma Lotus Notes	253-F1U: Core th WordPerfect Album Starter arthLink (XP Ho soft Office Small Media LE (CE WinDVD (comb WinDVD Creato cosoft Office SB not included (a rtSuite® Millen ig Stand-alone ipported on XP	n2003 D±RW)	<ul> <li>Onsite (in elig</li> <li>2-yea (Lenc</li> <li>3-yea (Lenc</li> <li>Post-w</li> <li>1-yea (Lenc</li> <li>Lenc</li> <li>2-yea (Lenc</li> <li>2-yea (Lenc</li> <li>Lencovchtp://lib</li> <li>24x7¹⁴ issues</li> </ul>	usiness day service upg ible location ir LOR 9x5, Novo Care 9x5, Novo Care part ar LOR 9x5, lovo Care part ar LOR 9x5, lovo Care part ar LOR 9x5, lovo Care part or Care service enovo.com/vtoll-free sup during the vM-SERV (426	rade op s): <sup>7</sup> lext Bu rt numb lext Bu number itenanc Next Bu number ees at varranty port for	siness Day er 41K0541) siness Day (41K0542) e services: siness Day (41K0543) siness Day (41K0544)		

Slot x Type-mod bay	Intel Processor	GHz	L2 cache	Dual core	Disk Memory dr	lia SATA ler disk		Integrated graphics				Limited Avail warranty¹ date
8255-FAU 3x4 F 8255-FBU 3x4 F 8255-FCU 3x4 F	Pentium D 820	2.80	2x1MB	Dual	512MB		Combo	GMA 950 GMA 950 GMA 950	945GZ	Mod Spkr	XP Pro	1-yr July 06 1-yr July 06 1-yr July 06

Positioning Processor	The smart choice for small business Intel® Pentium D Processor 820 with dual-core, EM64T, Execute Disable Bit, and 800MHz system bus with two x 1MB (dual-core) L2 cache Processor and L2 cache in FC-LGA4 or LGA6 in LGA775 socket	• 7.1" W X	s black color with silver accents optical at 17.5" D X 15.4" H W X 445mm D X 392mm H
	*\$12MB or 1GB std / 2GB max  Two 240-pin DIMM sockets /  FCU: two sockets used (512MB in each socket);  others: one socket used / one socket available  PC2-4200 533MHz DDR2 / non-parity / CAS latency 4 (CL4) / unbuffered / dual-channel capable	<ul><li>Handle d</li><li>Thumbs</li><li>Toolless</li></ul>	20.3 lb (9.1 to 9.2 kg) on top front crew for removal of side covers entry  25", 1.6" high, access, std optical
Graphics	Intel Graphics Media Accelerator 950 (GMA 950) / integrated graphics in 945GZ GMCH / uses main memory / 400MHz / one 15-pin analog D-sub connector / 945GZ does not support dual independent display	Bay ② 5.2 Bay ③ 3.5	5", 1.6" high, access, open 5", 1" high, access, std or opt diskette or media reader 5", 1" high, no access, std disk
SATA disk SATA controller SATA cables EIDE CD EIDE Combo	80 or 160GB / SATA300 7200 rpm Serial ATA / 300MB/sec SATA300 / integrated in south bridge One SATA cable (one 1-drop to disk) / two SATA connectors on planar Some: 48X-20X <sup>4</sup> CD-ROM Some: 48X/48X/46X Max <sup>11</sup> CD-RW/DVD-ROM Combo	Slot 2: hall Slot 3: hall	If-length, full-height, 32-bit PCI 2.3 - used * If-length, full-height, 32-bit PCI 2.3 - used* If-length, full-height, 32-bit PCI 2.3 and FireWire adapter in some models
EIDE CONTROL EIDE CONTROL EIDE controller EIDE cables Diskette drive Media reader	Some: DVD and CD burner / Super Multi-Burner DL Drive (part 41N55). Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH7) One 2-drop EIDE cable to optical / one EIDE connectors on planar Some: 3.5" 1.44MB diskette drive Some: 9-in-1 media reader / occupies diskette drive bay / internal USB	,	• One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock)
Chipset	Intel 945GZ Express Chipset / 82945GZ Graphics Memory Controller Hub (GMCH) / 82801GB I/O Controller Hub (ICH7) for SATA300, ATA-100 EIDE, PCI 2.3 bus, USB, Low Pin Count interface / ITE Tech® IT8712F/JX Super I/O for serial, parallel, diskette, keyboard, auto-thermal controls	mouse,	<ul> <li>No security slot (in rear for optional Kensington Microsaver cable)</li> <li>No keylock</li> <li>Power-on password</li> <li>Administrator password</li> <li>Boot sequence control</li> <li>Boot without keyboard, mouse, diskette</li> </ul>
IEEE 1394	Two USB (Version 2.0), microphone (mono, 3.5mm), headphone (stered Four USB (Version 2.0), one 9-pin serial, parallel (25-pin), keyboard (PS mouse (PS/2), ethernet (RJ-45), monitor (DB-15) Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm] Integrated digital audio / AC '97 interface / Realtek ALC655 codec One internal beeper Some: desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenow Some: FireWire PCI adapter / 1394A, 400Mbps, dual 6-pin ports on real 4-pin port on front of system, no external cables included	o logo ar,	Unattended start mode     Hard disk I/O control     Serial port I/O control     Parallel port I/O control
Ethernet Modem	10/100 ethernet on systemboard / Realtek 8100C controller (MAC/PHY PCI 2.3 / Wake on LAN® / PXE 2.0 and RPL remote boot Some: 56K¹0 V.90 data/fax soft modem / PCI adapter	) /	RoHS-compliant
Keyboard Mouse Power supply	104-key Preferred Pro Full-size keyboard (6-pin PS/2 connector), black Optical Wheel Mouse (USB only), 400 dpi, black 250 watts / universal / manual switch		DMI 2.0-compliant     LIMITED WARRANTY¹
Preload with Wir	ndows XP Home¹²  ws® XP Home Edition covery (in hidden  • Diskeeper™ Lite • Corel® Small Business Center™ with WordPerfect® Office 12		<ul> <li>1-year parts and labor</li> <li>International Warranty Service<sup>9</sup></li> <li>Customer Replaceable Unit (CRU) parts are available with onsite service<sup>3</sup></li> </ul>

protected area)

### Preload with Windows XP Professional<sup>12</sup>

Microsoft Windows XP Professional Disk-to-Disk Recovery (in hidden protected area)

- Preloaded⁵ (all)
   Lenovo Care<sup>SM</sup> tools
- Rescue and Recovery™
- System Update
- Password Manager Norton Internet Security 2005 AntiSpyware Edition
- PC-Doctor<sup>™</sup> (diagnostics)
- Adobe® Reader
- · Google Toolbar
- Google Desktop
- Picasa from Google

- Corel Photo Album Starter™ 6
- AOL and EarthLink (XP Home models only)
   Roxio DigitalMedia LE (combo, DVD±RW models)
   InterVideo WinDVD (combo, DVD±RW models)
   InterVideo WinDVD Creator (DVD±RW models)

### License - CD not included (all)

Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client (Notes client not supported on XP Home)

### Accessories

Accessories on O-J sheet Other accessories at http://lenovo.com/accessories

- parts are available with onsite services
  8 am 5 pm, Mon Fri coverage
  excluding holidays,
  next business day response time
  Onsite service upgrade options
  (in eligible locations):7
   2-year LOR 9x5, Next Business Day
  (Lenovo Cares part number 41K0541)
   3-year LOR 9x5, Next Business Day
  (Lenovo Care part number 41K0542)

- (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:6 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
- 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at
- http://lenovo.com/warranty
- 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period1 800-IBM-SERV (426-7378)

	4445				D'. L. W.	84 . 12 .	0.474	FIRE		4. 1. 14			11	
Slot x Type-mod bay	AMD Processor	L2 GHz cache	AMD64			Media reader	SATA disk	EIDE optical	graph	ated Mo ics de	o- Ext m speake	Pre- rs load	Limited A warranty <sup>1</sup>	
8258-J4U 4x4 Se 8258-J5U 4x4 Se 8258-J6U 4x4 Se 8258-J9U 4x4 Se 8258-H9U 4x4 Se 8258-H1U 4x4 Atl 8258-H8U 4x4 Atl 8258-H9U 4x4 Atl 8258-H9U 4x4 Atl 8258-HBU 4x4 Atl 8258-HBU 4x4 Atl 8258-HBU 4x4 Atl 8258-HBU 4x4 Atl	mpron 3000+ mpron 3000+ mpron 3000+ mpron 3400+ nlon 64 3200+ nlon 64 3200+ nlon 64 3200+ nlon 64 3200+ nlon 64 3200+	1.80 128KB 1.80 128KB 1.80 128KB 2.00 256KB 2.20 512KB 2.20 512KB 2.20 512KB 2.20 512KB 2.20 512KB 2.20 512KB	AMD64 AMD64 AMD64 AMD64 AMD64 AMD64 AMD64 AMD64 AMD64 AMD64	512MB 512MB 512MB 1GB 256MB 256MB 512MB 512MB 512MB 1GB	Dskte Dskte Dskte	9-in-1 9-in-1 9-in-1	80GB 80GB 160GB 80GB 80GB 160GB 160GB 250GB	CD CD Combo Combo DVD±RW CD CD Combo Combo DVD±RW DVD±RW DVD±RW DVD±RW	VIA S VIA S VIA S VIA S VIA S	S3 Ye S3 Ye S3 Ye S3 Ye S3 Ye S3 Ye S3 S3	s Spkrs s Spkrs s Spkrs s Spkrs	XP Pro XP Hom XP Hom XP Pro XP Hom XP Pro Pro/SBE XP Pro XP Pro	e 1-yr Fel 1-yr Fel e 1-yr Ap e 1-yr Jul 1-yr Fel e 1-yr Fel 1-yr Fel 1-yr Fel 1-yr Fel 1-yr Ap	eb 06 eb 06 ly 06 eb 06 eb 06 eb 06 eb 06 eb 06 eb 06
Positioning Processor  L2 cache Socket  Memory - std/max <sup>6</sup> Memory	The smart choi AMD® Sempro and 64-bit), inte HyperTransport to north bridge Sempron: 128k Socket 754 (75 256, 512MB or Two 184-pin DI socket); others:	n™ 3000+ or egrated DDR egrated DDR to north b 64 3200+ Pr to memory co (B or 256KB 4-pin) 1GB std / 20 MM sockets /	3400+ Financial Memority of the controller, Athlon  GB max HBU/B2	Processing control with AM single-conference of the single conference o	Iller, sing ID64 (3 ore, and (B	gle-core 2-bit an d Hyper  used (5	d 64 bit), Transpor	• 7.1" \ • 180m • 20.01 • Hanc • Thun • Toolle	W X 17 nm W 2 1 to 20 dle on nbscre ess en	7.5" D X X 445m 1.3 lb (9 top fron w for re try	(15.4" H m D X 39 1 to 9.2 t moval of	kg) side cove ss, std	diskette disk disk	
SATA disk SATA controller	CAS latency 3 ( Integrated grap UniChrome™ I one 15-pin ana 80GB, 160GB of Serial ATA / 150 One SATA cable	hics in VIA K Pro IGP / use log D-sub col or 250GB / S DMB/sec SAT	8M800 ces main r nnector / ATA300 A150 / ir	chipset / memory / AGP 8> 7200 rpr ntegrated	VIA® Saup to 64 ( slot av	3 Graph 4MB / 20 vailable th bridg	DOMHz /	Bay ® Bay ® Slot 1: Slot 2: Slot 3:	3.5", 3.5", half-le half-le	1" hig 1" hig ength, f ength, f ength, f	ull-height ull-height ull-height	ss, std or ccess, std , 32-bit AC , 32-bit PC , 32-bit PC	or opt disk media read disk GP 8X CI 2.3 CI 2.3	
SATA cables EIDE CD EIDE Combo EIDE DVD±RW EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	Some: 48X-20 Some: 48X/32 Some: DVD ar Model HHU/B4 Enhanced IDE One 2-drop EID Some: 3.5" 1.4 Some: 9-in-1 r	X <sup>4</sup> CD-ROM X/48X/16X M nd CD burner U: DVD and / ATA-100 / ir DE cable to op 14MB diskette nedia reader	lax <sup>11</sup> CD / double I CD burn tegrated ptical / tv e drive / occupi	-RW/DVI e-layer / ner / Sup d in I/O C wo EIDE es disket	73P3370) /e (41N558 SB 2.0	31)	One lo entire - Padlo - No s Kens - No k	SI ck to sec system to ock loop ( ecurity slo sington M	ot (in rear icrosaver	over and ect: opt padloc for optiona				
Front ports Rear ports Rear audio ports Audio	VIA VT8237 so USB 2.0 / ITE 1 and mouse Two USB 2.0, n Four USB 2.0, mouse (PS/2), Microphone-in Integrated digits Some: desktop One internal be 10/100 etherne PCI 2.3 / Wake	Some: 3.5" 1.44MB diskette drive Some: 9-in-1 media reader / occupies diskette drive bay / internal USB 2.0 //IA K8M800 chipset / K8M800 north bridge graphics and memory controll //IA VT8237 south bridge I/O Controller for SATA150, ATA-133 EIDE, PCI 2. JSB 2.0 / ITE Tech® 8705GX Super I/O for serial, parallel, diskette, keyboar and mouse //IWO USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm) //IFOUR USB 2.0, one 9-pin serial, parallel (25-pin), keyboard (PS/2), //IFOUR USB 2.0, ethernet (RJ-45), monitor (DB-15) //IFOUR USB 2.0, incomplete (RJ-45), monitor (DB-15) //IFOUR USB 2.0, ethernet (RJ-45), ethernet (RJ-45), ethernet (RJ-45) //IFOUR USB 2.0, ethernet (RJ-45) //IFOUR USB 2.0, ethernet (RJ-45) //IFOUR USB 2.0, ethernet (RJ-45) //IFOUR USB 2									istrator pa equence	assword control yboard, m rt mode ontrol control	ouse, diske	ette
Keyboard Mouse Power supply	104-key Preferr Optical Wheel N 250 watts / univ	red Pro Full-s Mouse (USB	size keyb only), 40	oard (6- <sub>l</sub> 00 dpi, bl	oin PS/			<u> </u>			r parts ar	O WARRA nd labor /arranty S		
Microsoft® Windo - Disk-to-Disk Reprotected area)  Preload with Wir Microsoft® Windo - Disk-to-Disk Reprotected area)  Preloaded⁵ (all O - Lenovo Care⁵м - Rescue and F - System Upda - Password Ma - Norton Internet AntiSpyware Ec	orith Windows XP Professional  Windows® XP Professional  Some: Microsoft Office Small Business I  with Office 2003 Service Pack 2 (SP2)  Roxio Digital Media LE (CD-RW, comb  InterVideo WinDVD (combo, DVD, DVI)  InterVideo WinDVD Creator (DVD±RW  CD  Some: Microsoft Office SBE (SP2) CD  License - CD not included (all OSes)  Lotus® SmartSuite® Millennium and  Lotus Notes® Stand-alone Client (Note  client not supported on XP Home)									parts 8 am exclu next 1 Onsit (in eli • 2-ye (Ler • 3-ye (Ler • 1-ye (Ler • 2-ye (Ler Leno http:// 24x7 issue	are availa - 5 pm, M ding holid business e service gible loca ear LOR 9 hovo Care warranty ear LOR 9 hovo Care vo Care to Care vo Care s dilenovo.ca d	ble with or on - Fri co days, day respo upgrade of ations):7 x5, Next E part numb maintenan 0x5, Next I part numb ervices at om/warran support f	nse time options  Business Danber 41K0542 Business Dance service Business Dare 41K0544	Day 541) Day 2) es: <sup>6</sup> Day (3) Day 4)

optical

(2)

(3)

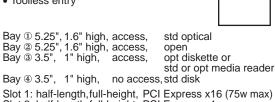
Slot x Type-mod bay	Processor	GHz	L2 cache	Core	Memory	Media reader	SATA disk	EIDE optical	Graphics	Mo- dem	External speakers	Key- board	Preload	Avail date
7393-21U 4x4	Pentium D 820	2.80	2x1MB	Dual	512MB		80GB <sup>2</sup>	CD	GMA			Pref	XP Pro	Nov 06
7393-22U 4x4	Pentium D 820	2.80	2x1MB	Dual	512MB	9-in-1	160GB	Combo	GMA			EP	XP Pro	Nov 06
7393-24U 4x4	Pentium D 820	2.80	2x1MB	Dual	512MB	9-in-1	160GB	Combo	GMA	Yes	Spkrs	Pref	XP Home	Nov 06
7393-26U 4x4	Pentium D 820	2.80	2x1MB	Dual	1GB		250GB	DVD±RW	GMA		·	Pref	XP Pro	Nov 06
7393-27U 4x4	Pentium D 820	2.80	2x1MB	Dual	1GB	9-in-1	250GB	<b>DVD</b> ±RW	GMA	Yes	Spkrs	Pref	XP Home	Nov 06
7393-51U 4x4	Pentium D 925	3.00	2x2MB	Dual	1GB	9-in-1	250GB	DVD±RW	X300		·	EP	XP Pro	Nov 06
7393-55U 4x4	Pentium D 925	3.00	2x2MB	Dual	512MB		160GB	Combo	GMA			Pref	XP Pro	Nov 06
7393-56U 4x4	Pentium D 925	3.00	2x2MB	Dual	1GB	9-in-1	250GB	<b>DVD</b> ±RW	GMA	Yes	Spkrs	Pref	XP Home	Nov 06
7393-3FU 4x4	Pentium D 925	3.00	2x2MB	Dual	512MB		80GB	DVD	GMA		·	Pref	XP Pro	May 07
7393-8HU 4x4	Core 2 Duo E4300	1.80	2MB	Dual	512MB		80GB	DVD	GMA			Pref	XP Pro	May 07
7393-01U 4x4	Pentium E2140	1.60	1MB	Dual	512MB		80GB	DVD	GMA			Pref	XP Pro	Aug 07
7393-02U 4x4	Pentium E2140	1.60	1MB	Dual	512MB		160GB	Combo	GMA			Pref	XP Pro	Aug 07
	<ul> <li>These models</li> </ul>	have a	1-year li	imited	warranty	1								

Positioning Processor	Excellent performance at competitive prices Intel® Pentium® D Processor 820 or 925 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST (9xx only), 800MHz system bus, and 2x1MB or 2x2MB L2 cache or Intel Pentium Dual-Core Processor E2140 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo Processor E4300 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache Processor and L2 cache in FC-LGA4 or LGA6 in LGA775 socket	
Memory	512MB or 1GB std, 4GB max <sup>8</sup> , PC2-4200 533MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	E E
Graphics (one of following)	Intel Graphics Media Accelerator 3000 (GMA 3000), integrated graphics in 946GZ, uses main memory (up to 256MB), 400MHz, one 15-pin analog D-sub connector, supports optional ADD2 adapter but not dual independent display     ATI™ Radeon™ X300 SE, PCI Express x16 adapter, 128MB 400MHz DDR1, 400MHz RAMDAC,	1

Tower

· Business black color with silver accents • 7.1" W X 17.5" D X 15.4" H • 180mm W X 445mm D X 392mm H

- 20.1 to 22.5 lb (9.1 to 10.2 kg) Handle on top front
- Thumbscrew for removal of side covers
- Toolless entry



Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 (5v) Slot 4: half-length, full-height, 32-bit PCI 2.3 (5v)\*

modem in slot in some models

### two 15-pin analog D-sub connectors, dual head support SATA disk 80GB, 160GB, or 250GB, SATA300 7200 rpm Serial ATA, 300MB/sec SATA300, integrated in ICH7 One SATA cable (one 1-drop to disk), 2 SATA connectors on planar Some: 48X-20X4 CD-ROM SATA controller SATA cables EIDE CD Some: 16X-48X Max<sup>4</sup> DVD-ROM, single-layer Some: 48X/32X/48X/16X Max<sup>11</sup> CD-RW/DVD-ROM Combo EIDE DVD EIDE Combo EIDE DVD±RW Some: DVD and CD burner, Super Multi-Burner DL (41N5581) Enhanced IDE, ATA-100, integrated in I/O Controller Hub (ICH7) One 2-drop EIDE • Power-on password EIDE controller cable to optical, 2 EIDE connectors on planar FIDF cables Diskette drive None Media reader Some: 9-in-1 media reader, occupies diskette drive bay, internal USB 2.0 Chipset Intel 946GZ Express Chipset, 82946GZ Graphics Memory Controller Hub (GMCH), 82801GB I/O Controller Hub (ICH7) for SATA300, ATA-100 EIDE, PCI Express x1 PCI 2.3 bus, USB, Low Pin Count interface / ITE Tech® IT8718 Super I/O

**SECURITY** · One lock to secure both cover and

- entire system to fixed object:
- Padlock loop (in rear for opt padlock)
   No security slot (in rear for optional Kensington Microsaver cable)
- No keylock

- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Unattended start mode
- Hard disk I/O control Serial port I/O control
- Parallel port I/O control

Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, one 9-pin serial, parallel (25-pin), keyboard (PS/2), Front ports Rear ports

mouse (PS/2), ethernet (RJ-45), monitor (DB-15)

Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm] High Definition (HD) Áudio, AD1986A codec, SoundMÁX® software

External speakers Some: desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenovo logo One internal beeper

Ethernet Gigabit ethernet on systemboard, Broadcom® BCM5786 (PHY/MAC), PCIe x1 Some: 56K10 V.90 data/fax soft modem, PCI adapter Modem

[Pref] 104-key Preferred Pro USB Keyboard, black Keyboard Enhanced Performance USB Keyboard, 2-port USB 2.0 hub, black (one of following)

Optical Wheel Mouse (USB only), 400 dpi, black Mouse Power supply 250 watts, universal, manual switch

Preload with Windows XP Home<sup>12</sup> Microsoft® Windows® XP Home Edition

Preload with Windows XP Professional<sup>12</sup> Microsoft Windows XP Professional

Preloaded<sup>5</sup> (all OSes; some listed)

Lenovo Càre<sup>SM</sup> tools

Rear audio ports

Audio

Beeper

- Rescue and Recovery™
- System Update
- Password Manager
- Norton Internet Security™ (90 days of virus definitions)
  • PC-Doctor™ (diagnostics)

- · Google Desktop
- Diskeeper® Lite
- Corel® Small Business Center™ with WordPerfect® Office 12
- Corel Photo Album Starter™ 6

- AOL and EarthLink (XP Home models only)
  Roxio Digital Media LE (combo, DVD±RW)
  InterVideo WinDVD (DVD, combo, DVD±RW)
- InterVideo WinDVD Creator (DVD±RW)

License - CD not included (all OSes)
- Lotus® SmartSuite® Millennium and
Lotus Notes® Stand-alone Client (Notes
client not supported on XP Home)

### LIMITED WARRANTY<sup>1</sup>

- 1-year parts and labor
- International Warranty Service9
- Customer Replaceable Unit (CRU) parts are available with onsite service3, . 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Onsite service upgrade options (in eligible locations):7
- 2-year LOR 9x5, Next Business Day (Lenovo Care<sup>SM</sup> part number 41K0541) **3-year LOR 9x5, Next Business Day**
- (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:6

  1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543) 2-year LOR 9x5, Next Business Day
- (Lenovo Care part number 41K0544)

  ⇒ Lenovo Care services at
- http://lenovo.com/warranty 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period<sup>1</sup> 800-IBM-SERV (426-7378)

Slot x Type-mod bay	Intel Processor	L2 GHz cache	Core	Memory		SATA disk	EIDE optical	Graphic		External speakers		Vista logo	Avail date
7393-F1U 4x4 Pe 7393-G1U 4x4 Pe 7393-G2U 4x4 Pe 7393-GDU 4x4 Pe 7393-GDU 4x4 Pe 7393-SBU 4x4 Pe 7393-5DU 4x4 Pe 7393-5DU 4x4 Pe 7393-3GU 4x4 Pe 7393-6GU 4x4 Pe 7393-6GU 4x4 Pe 7393-6HU 4x4 Pe 7393-8JU 4x4 Co 7393-8KU 4x4 Co	ntium 4 641 ntium 4 641 ntium D 915 ntium D 915 ntium D 915 ntium D 925 ntium D 925 ntium D 925 ntium D 945 ntium D 945	3.00 2MB 3.20 2MB 3.20 2MB 3.20 2MB 2.80 2x2M 2.80 2x2M 3.00 2x2M 3.00 2x2M 3.00 2x2M 3.40 2x2M	3 Dual 3 Dual 3 Dual 3 Dual 3 Dual 3 Dual 3 Dual 3 Dual 3 Dual	1GB 1GB 1GB 1GB 1GB 1GB	9-in-1 9-in-1 9-in-1	80GB 160GB 250GB 80GB 160GB 250GB 250GB 80GB 250GB 80GB 250GB	Combo DVD±F DVD±F Combo DVD±F DVD±F DVD±F Combo DVD±F Combo DVD±F	RW GMA O GMA RW GMA O GMA O GMA RW GMA RW GMA RW GMA RW GMA RW GMA O GMA	Yes Yes Yes Yes Yes	Spkrs Spkrs Spkrs Spkrs Spkrs Spkrs	Business Business Business Business Business Home Basic Business Home Basic Business Home Premiur Home Basic Business Home Premiur Business Home Premiur Business Home Premiur Business	Basic Premium Premium Premium	Jan 07 Jan 07
Positioning Processor	Excellent performintel® Pentium® Intel 64 Technolo Execute Disable Inte Pentium Dintel 64 Technolo 800MHz system Intel Core™ 2 Dintel 64 Technolo 800MHz system	4 Processon gy, Hyper-T Bit, 800MH: Processor strain and 2x gy, Execute bus, and 2x uo Processon gy, Execute bus, and 2N	<ul><li>7.1" W</li><li>180mm</li><li>20.1 to</li><li>Handle</li></ul>	X 17.5 W X 22.5 I on to screw	5" D X 15 445mm I b (9.1 to p front for remo	O X 392mm H	entsd	otical ② ③ ③ isk					
Memory - std/max	Processor and L 3512MB or 1GB s PC2-4200 533Mi dual-channel cap Some: standard Some: (italics) s	std / 4GB ma Hz DDR2 / n Dable / two 2 I memory (5	Bay ① 5 Bay ② 5 Bay ③ 3 Bay ④ 3.	25", 1. 5", 1'	6" high, high,	access, ope access, opt	diskette or or opt medi	a reader					
Graphics	(up to 256MB) /	Slot 2: ha Slot 3: ha Slot 4: ha	lot 1: half-length,full-height, PCI Express x16 (75w max) lot 2: half-length,full-height, PCI Express x1 lot 3: half-length,full-height, 32-bit PCI 2.3 (5v) lot 4: half-length,full-height, 32-bit PCI 2.3 (5v)* modem in slot in some models										
SATA disk SATA controller SATA cables EIDE DVD EIDE Combo EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	(up to 256MB) / 400MHz / one 15-pin analog D-sub connector / supports optional ADD2 adapter but not dual independent display  A disk A controller A cables E DVD Some: 16X-48X Max <sup>4</sup> DVD-ROM / single-layer / EIDE E Combo E DVD±RW E controller E controller E controller E controller E cables E controller E cables Kette drive  Slot 3: Slot 3: Slot 3: Slot 3: Slot 4: * mod  * prescription analog D-sub connector / slot 4:  * mod  *											RITY  oth cover ar  l object:  ar for opt pa  rear for opti  aver cable)	dlock)
Front ports Rear ports		ics Memory Introller Hub B, Low Pin ( Icrophone (n ne 9-pin ser	Controlle (ICH7) fount intended nono, 3.5 al, paral	or SATA: erface / I 5mm), he lel (25-pi	300, AT TE Tec adphoi n), keyl	A-100 EI h® IT871 ne (stere	8 Super o, 3.5m	r I/O	s x1,	<ul><li>Admin</li><li>Boot s</li><li>Boot w</li><li>Unatte</li><li>Hard d</li><li>Serial</li></ul>	-on password istrator password equence contrituted the control is a control in the control port I/O control	ol d, mouse, c de l	liskette
Rear audio ports Audio External speakers Beeper Ethernet Modem Keyboard Mouse Power supply	mouse (PS/2), ethernet (RJ-45), monitor (DB-15)  ar audio ports dio ernal speakers eper ernet dem  mouse (PS/2), ethernet (RJ-45), monitor (DB-15) Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm] High Definition (HD) Audio / AD1986A codec / SoundMAX® software some: desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenovo loone internal beeper Gigabit ethernet on systemboard / Broadcom® BCM5786 (PHY/MAC) / PC Some: 56K¹⁰ V.90 data/fax soft modem / PCI adapter  //board 104-key Preferred Pro USB Keyboard, black Optical Wheel Mouse (USB only), 400 dpi, black										LIMITED WAI r parts and lab national Warrar omer Replacea are available wi - 5 pm, Mon - F ding holidays, ousiness day re	RRANTY <sup>1</sup> or ity Service <sup>9</sup> ble Unit (CR th onsite se fri coverage	rvice <sup>3</sup> ,
Preloaded operating system¹² - Some: Microsoft® Windows® Vista™ Home Basic Edition (32-bit) - Some: Microsoft Windows Vista Home Premium Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (32-bit)  Preloaded applications⁵ (all OSes; only some listed) • Lenovo Cares™ Tools - Rescue and Recovery™ - System Update - Password Manager • Norton Internet Security™ • PC-Doctor™ (diagnostics)  • Diskeeper® Home • Corel® Small Business Center™ with WordPerfect® Office 12 • QuickBooks Financial Center • AOL and EarthLink (Vista Home Basic and Home Premium models only) License - CD not included (all OSes) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client  DVD (all OSes) - Windows Anytime Upgrade DVD included aupgrade to different Vista versions for a fee										Onsit (in eli 2-ye (Ler 3-ye (Ler 1-ye (Ler 2-ye (Ler 2-ye (Ler 2-ye Lenov http:// issue	e service upgr gible locations sar LOR 9x5, N. novo Care 9x5, N. novo Care part r warranty maint ear LOR 9x5, N. novo Care part r warranty maint ear LOR 9x5, N. novo Care part r vo Care service 'Idenovo.com/w 4 toll-free supp s during the w BM-SERV (426-	ade options i):7 ext Busines t number 41 ext Busines number 41K( enance ser number 41K( ext Busines number 41K( ext Busines number 41K( ext Gusines number 40K( ext Gusines nu	s Day (K0541) s Day (S542) vices: 6 ss Day (0543) ss Day (0543) ss Day (0544)

Slot x Type-mod bay	AMD Processor	GHz	L2 cache	Core	Memory	Media reader			EIDE ptical			External speakers		Preload	Avail date		
7387-24U 4x4 Atl 7387-26U 4x4 Atl 7387-27U 4x4 Atl 7387-3BU 4x4 Atl 7387-41U 4x4 Atl 7387-44U 4x4 Atl	hlon 64 3500+ hlon 64 X2 3800+ hlon 64 X2 3800+ hlon 64 X2 3800+ hlon 64 X2 3800+ hlon 64 X2 4000+	2.20 2.00 2.00 2.00 2.00 2.10 2.20 2.20	2x512KB 2x512KB 2x512KB 2x512KB 2x512KB 2x512KB 2x512KB 2x512KB	Single Dual Dual Dual Dual Dual Dual Dual Dual	1GB 1GB 512MB 512MB 1GB 512MB	9-in-1	250GB 80GB 160GB	Cor DV DV DV Cor	mbo mbo D±RW D±RW D mbo D±RW	NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA	Yes Yes	Spkrs Spkrs Spkrs	EP Pref Pref Pref Pref Pref	XP Pro XP Pro XP Pro XP Home XP Home XP Pro XP Pro XP Pro XP Pro XP Pro	Sep 06 Sep 06 May 07 Sep 06		
Positioning	Excellent performa	ance a	t competi	tive pri	ces				Towe						$\overline{}$		
Processor Implementation	AMD® Athlon™ 64 AMD64, integrated virtualization techr AMD Athlon 64 X integrated L1/L2 c virtualization techr	4 3500 d DDR hology 2 3800 ache, hology	+ with sin 2 memory or )+, 4000+ AMD64, in	gle-cor contro , <b>4200</b> - ntegrate	re, integr oller, and +, or <b>440</b> ed DDR2	0+ with 2 contro	n <b>dual-c</b> o	ore,	• 7.1" • 180r • 20.1 • Han	W X 17.5 nm W X to 22.5 I dle on to	5" D X 445mr b (9.1 o front	n D X 392 to 10.2 kg	?mm H g)	ents E	optical ② iskette obb disk		
<u> </u>	nory - std/max <sup>8</sup> <b>512MB</b> or <b>1GB std</b> / 4GB max																
Memory	PC2-4200 533MHz dual-channel capa 512MB models: 1GB model 44U: 1GB models 26U/2	z DDR: able / tv	<b>2</b> / non-pa wo 240-pi ne socket ne socket	5.25", 1	5", 1.6" high, access, std optical 5", 1.6" high, access, open ", 1" high, access, std or opt diskette or media reader												
Graphics	NVIDIA® GF 6100 uses main memor optional PCI Expre	y / 425	MHz / on	e 15-pi	Slot 1	: half-len	, 1" high, no access, std disk length, full-height, PCI Express x16 (75w max) length, full-height, PCI Express x1										
SATA disk SATA controller SATA cables EIDE DVD EIDE Combo EIDE DVD±RW EIDE controller	80GB, 160GB, or Serial ATA / 300Ml One SATA cable (o Some: 16X-48X N Some: 48X/32X/4 Some: DVD burns Enhanced IDE / A south bridge One 2-drop EIDE	B/sec sone 1-0 Max⁴ D 8X/16 er / Su TA-133	SATA300 drop to dis VD-ROM X Max <sup>11</sup> C per Multi- s / integrat	/ integr sk) / 2 \$ / single D-RW Burner ted in N	Slot 3 Slot 4	: half-lend : half-lend em in slo	gth,full gth,full t in so One entir - Pa	l-height, 3 l-height, 3 me mode lock to see system dlock loop	32-bit P 32-bit P Is SECUP ecure b to fixed (in rea	PCI 2.3 (5v) PCI 2	* ind adlock)						
Diskette drive Media reader	None Some: 9-in-1 med	lia rea	der / occi	ınies di	skette di	rive hav	v / intern	al I I	SB 2 0		No security slot (in rear for optional Kensington Microsaver cable)						
Chipset	NVIDIA GeForce® support for PCI Ex NVIDIA MCP51 so Low Pin Count inte	6100 press outh br	C51g chi x1 slot, P idge for S	pset / CI Exp	C51g ind ress x16 0, ATA-1	ludes ( slot, F 33 EID	graphics PCI 2.3 sl E, USB,	con	troller,		No keylock     Power-on password     Administrator password     Boot sequence control     Boot without keyboard, mouse, diskette     Unattended start mode						
Front ports Rear ports Rear audio ports Audio External speakers Beeper Ethernet Modem	Two USB 2.0, micr Four USB 2.0, one mouse (PS/2), eth Microphone-in (md High Definition (HI Some: desktop sp One internal beep Gigabit ethernet o Some: 56K <sup>10</sup> V.90	e 9-pin ernet ( ono), li o) Aud eaker: er n plan;	serial, pa (RJ-45), n ne-in (ste lio / AD19 s, 2-piece ar / Broad	rallel (2 nonitor reo), lir 86A co , 6 wat	25-pin), k (DB-15) ne-out (so odec / So ts (3 wat BCM578	keyboa tereo)   oundM <i>F</i> ts each	rd (PS/2) [all 3.5mi AX® softw n), black,	n] /are Len	novo log	go	<ul><li>Hard</li><li>Seria</li></ul>	ttended st I disk I/O al port I/O Illel port I/	control contro	ol			
Keyboard (one of following) Mouse Power supply	[Pref] 104-key Pre [EP] Enhanced Pe Optical Wheel Mod 250 watts / univers	rforma use (U	ince USB SB only),	Keybo 400 dp	ard, 2-po	k ort USE	3 2.0 hub	, bla	ack			ear parts	and lab	RRANTY <sup>1</sup> oor	9		
Preload with Win Microsoft® Windo - Disk-to-Disk Re protected area) Preload with Win Microsoft Window - Disk-to-Disk Re protected area) Preloaded⁵ (all O • Lenovo Care⁵м - Rescue and F - System Upda - Password Ma • Norton Internet (90 days of viru • PC-Doctor™ (di • Adobe⁵® Readeu • Google Toolbar	Corel Photo Album Starter™ 6 AOL and EarthLink (XP Home Toresoft Windows XP Professional Corel Photo Album Starter™ 6 AOL and EarthLink (XP Home Roxio Digital Media LE (comb InterVideo WinDVD (DVD, corell InterVideo WinDVD Creator (I Corel Photo Album Starter™ 6 AOL and EarthLink (XP Home Roxio Digital Media LE (comb InterVideo WinDVD (DVD, corell InterVideo WinDVD Creator (I Corel Photo Album Starter™ 6 AOL and EarthLink (XP Home Roxio Digital Media LE (comb InterVideo WinDVD (DVD, corell InterVideo WinDVD Creator (I Corel Photo Album Starter™ 6 AOL and EarthLink (XP Home Roxio Digital Media LE (comb InterVideo WinDVD (DVD, corell InterVideo WinDVD Creator (I Corel Photo Album Starter™ 6 AOL and EarthLink (XP Home Roxio Digital Media LE (comb InterVideo WinDVD (DVD, corell InterVideo WinDVD Creator (I Corel Photo Album Starter™ 6 AOL and EarthLink (XP Home Roxio Digital Media LE (comb InterVideo WinDVD (DVD, corell InterVideo WinDVD Creator (I Comb InterVideo WinDVD (DVD, corell InterVideo WinDVD Creator (I Comb InterVideo WinDVD Creator (I C									(yy) (w)	Cus part 8 ar exc ons (in c 2- (L 2 Pos 1 (L 2 2 (L 2 2 24x issue	stomer Re ts are avai m - 5 pm, il luding ho t busines site service ligible lo year LOR enovo Car year LOR enovo Car ct-warrant enovo Car enovo Car enovo Car cov Car cov Car il cov Car cov C	placea lable w Mon - I lidays, s day r e upgr cations 9x5, N e part y main 8 9x5, N re part 8 9x5, N re part servic com/w e suppr g the w	ble Unit (C ith onsite sericoverage esponse the rade option s):? ext Busine the the the the lext Busine number 41k lext Busine number 41k lext Busine number 41k es at varranty port for war	RU) ervice³, e me s ss Day (1K0541) ss Day (0542) rvices: ss Day (0543) ess Day (0544) ranty		

Class	AMD					Madia	CATA	FIDE			. M-	F4	Winte	Viete	A ! !	
Type-mod bay	AMD Processor	GHz	L2 cache	Core	Memory	Media reader		EIDE optica		ntegrated graphics			vista s preload	Vista logo	Avail date	
7387-2JU 4x4 A 7387-2KU 4x4 A 7387-2MU4x4 A 7387-48U 4x4 A 7387-49U 4x4 A	empron 3400+ empron 3400+ thlon 64 X2 3800+ thlon 3800+ thlon 3800+ thlon 3800+ thlon 64 X2 4200+ thlon 64 X2 4200+ thlon 64 X2 4200+	1.80 1.80 2.00 2.40 2.40 2.20 2.20 2.20	512KB 512KB 512KB 512KB 2x512KE 2x512KE 2x512KE	Single Single B Dual Single Single Single B Dual B Dual B Dual	512MB 512MB 1GB 1GB 1GB 1GB 1GB 1GB	9-in-1 9-in-1	80GB 80GB 160GB 80GB 160GB 80GB 160GB	DVD Comb Comb DVD± DVD± Comb	bo bo ±RW ±RW bo ±RW	NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA NVIDIA	Yes Yes	Spkrs Spkrs	Home Basi Business Home Basi Home Basi Business Business Business Business Business Home Basi	Premiun c Basic c Basic Premiun Premiun Premiun Basic Basic	Jan 07 Jan 07 n Jan 07 n Jan 07	
	These models							1-								
Positioning Processor  Implementation	Excellent perform AMD® Sempron AMD64, and inte AMD Athlon™ 6 AMD64, integrate virtualization tecl AMD Athlon 64 L1/L2 cache, AM virtualization tecl Processor in 940	™ 3400 grated 4 3800 ed DDF hnology X2 380 lD64, ir	D+ with sind DDR2 memory or the grated for the grat	ngle-connements of the more of	re, integrecontroller e, integra coller, and n dual-co controlle	r or ated L1 d <b>ore</b> , inte r, and	/L2 cacł	he, ne,	7.1' 180 20.' Har Thu	siness bla 'WX 17 Imm WX 1 to 22.5 Indle on to	.5" D ( 445r lb (9 op fro w for i	X 15.4" nm D X .1 to 10. nt	392mm H	nts di	optical ② skette odisk	
Memory - std/ma	x8 <b>512MB</b> or <b>1GB</b> s	std / 40	BB max					. , F	Bay (	D 5.25",	1.6"	high, ac	cess sto	L l optical		
Memory	PC2-4200 533MI dual-channel cap 512MB models: models 48U/49U, models 9GU/2JU	oable / <i>'</i> /4AU:	two 240- one one	pin ĎIM e socket e socket	M socket used; used (10	ts / GB per	socket);	ea /   E   E <sub>et)</sub>   E	Bay @ Bay @ Bay @	2 5.25", 3 3.5", 4 3.5",	1.6" 1" hi	high, ac gh, ac gh, no	cess, op cess, sto	en I or opt dis media rea I disk	der	
Graphics	uses main memo	ory / 42	5MHz/c	ne 15-p	in analo	g D-suk	conne	et / S	Slot 2 Slot 3	2: half-lei 3: half-lei	ngth,f ngth,f	ull-heiğl ull-heigl	nt, PCI Exp nt, 32-bit P( nt, 32-bit P(	ress x1 Cl 2.3 (5v)		
SATA disk SATA controller SATA cables EIDE DVD EIDE Combo EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	Serial ATA / 300N One SATA cable Some: 16X-48X Some: DVD burn Enhanced IDE / One 2-drop EIDE None	s main memory / 425MHz / one 15-pin analog D-sub connector / Slot onal PCI Express x16 adapter can support two monitors  BB, 160GB, or 250GB / SATA300 7200 rpm iail ATA / 300MB/sec SATA300 / integrated in south bridge is SATA cable (one 1-drop to disk) / 2 SATA connectors on planar ine: 16X-48X Max <sup>4</sup> DVD-ROM / single-layer / EIDE ine: 48X/32X/48X/16X Max <sup>11</sup> CD-RW/DVD-ROM Combo ine: DVD burner / Super Multi-Burner DL Drive (41N5581) is lanced IDE / ATA-133 / integrated in NVIDIA MCP51 south bridge is 2-drop EIDE cable to optical / 2 EIDE connectors on planar										tire syst Padlock No secu Kensingt No keylo	SECUR o secure bo em to fixed loop (in rea rity slot (in r on Microsa	oth cover a object: r for opt pa ear for opt	adlock)	
Chipset	NVIDIA GeForce support for PCI E NVIDIA MCP51 : Low Pin Count in	Express south b	s x1 slot, ridge for	PCI Exp SATA30	oress x10 00, ATA-1	6 slot, F 33 EID	ČCI 2.3 s E, USB	slots /	oller,		Power-on password     Administrator password     Boot sequence control     Boot without keyboard, mouse, diskett     Unattended start mode					
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, mi Four USB 2.0, or mouse (PS/2), et Microphone-in (n High Definition (h s Some: desktops	ne 9-pii thernet nono), HD) Au	n serial, ¡ (RJ-45), line-in (s dio / AD1	oarallel ( monitoi tereo), li 1986A c	(25-pin), r (DB-15 ne-out (sodec / So	keyboa ) stereo) oundM/	ird (PS/2 [all 3.5n AX® soft	2), nm] ware		igo.	• Se	rial por	I/O control I/O control ort I/O control	ol		
Beeper Ethernet Modem	One internal bee Gigabit ethernet Some: 56K <sup>10</sup> V.9	per on plar	nar / Broa	adcom®	BCM578	88 / PC	, .			Ŭ		year pa	MITED WAR	or		
Keyboard Mouse Power supply	104-key Preferre Optical Wheel Mo 250 watts / unive	ouse (l	JSB onĺy	), 400 d							₽     C     p	ustome arts are	onal Warran r Replaceak available wit om, Mon - Fi	ole Unit (Cl h onsite se	RU) ervice <sup>3</sup> ,	
Home Basic I - Some: Micro Business Edit Preloaded app • Lenovo Care - Rescue and - System Upo - Password N • Norton Intern	soft® Windows® Vising Section of Windows Vising Section of Windows Vistarion of Windows Vistarion of Windows Vistarion of Windows (32-bit)  Ilications (all OSes of Mindows Windows (32-bit)  Ilications (all OSes of Mindows (32-bit)  Ilication Tools  Ilications (all OSes of Mindows (32-bit)  Ilication (32-bit)  Ilication of Windows Visit (32-b		• • • • •								e. n O (i  P P L h P 2 is	xcluding ext busi nsite se nsite se nsite se nsite se neligibl 2-year I (Lenovo 3-year I (Lenovo cost-war 1-year (Lenovo 2-year (Lenovo cenovo C tttp://len 4x7¹⁴ tol ssues du	n holidays, ness day reservice upgrate locations. LOR 9x5, Nector part nor anty maint. LOR 9x5, Nector part nor anty maint. LOR 9x5, Nector part not lore lore lore lore lore lore lore lore	sponse tir de option: ):7 ext Busine: number 41k ext Busine: umber 41k ext Busine: umber 41k ext Busine umber 41k ext Busine umber 41k ext Busine umber 41k ext Busine umber 41k ext Busine	ne s ss Day (K0541) ss Day (0542) rrvices: <sup>6</sup> ss Day (0543) ss Day (0544)	

Slot x Type-mod bay	AMD Processor	L2 GHz cache	Core Memory	Media reade		EIDE optica	Integrated I graphics			l Vista s preload	Vista logo	Avail date		
7387-3DU 4x4 Ath 7387-3EU 4x4 Ath 7387-59U 4x4 Ath 7387-5AU 4x4 Ath 7387-63U 4x4 Ath 7387-64U 4x4 Ath	hlon 64 X2 4400+ hlon 64 X2 4000+ hlon 64 X2 4000+ hlon 64 X2 4000+ hlon 64 X2 4400+ hlon 64 X2 4400+ hlon 64 X2 4400+ hlon 64 X2 4800+ hlon 64 X2 4800+ hlon 64 X2 4800+	2.10 2x512K 2.10 2x512K 2.10 2x512K 2.30 2x512K 2.30 2x512K 2.50 2x512K 2.50 2x512K 2.50 2x512K 2.50 2x512K	B Dual 1GB	9-in-1 9-in-1	250GB 160GB 250GB 80GB 160GB	DVD±R' Combo DVD±R' Combo DVD±R'	NVIDIA W NVIDIA W NVIDIA NVIDIA W NVIDIA NVIDIA NVIDIA W NVIDIA	Yes	Spkrs	Home Prer Business Business Home Prer Business Business Business Business Home Prer	Basic Basic Basic Basic Basic Basic Basic	May 07 May 07 May 07 May 07 May 07 May 07 May 07 May 07		
Positioning Processor	Excellent perform AMD® Athlon™ 6 shared L2 cache, virtualization tech Processor in 940-	4 <b>X2 4000+</b> , AMD64, inte	<b>4400+</b> , or <b>480</b> grated DDR2	controll	dual-co er, and	re,	• Business b • 7.1" W X 1 • 180mm W	7.5" D X 445	X 15.4" mm D X	H 392mm H	l'i	optical ② diskette		
Memory - std/max	<sup>3</sup> <b>1GB std</b> / 4GB m <b>PC2-4200 533MH</b> dual-channel capa some: models 4MU/65U:	Iz DDR2 / nor able / two 240 one socke		ockets / oer sock	et);	ffered /	<ul><li>20.1 to 22.</li><li>Handle on</li><li>Thumbscre</li><li>Toolless er</li></ul>	top fro w for	ont	0,		disk		
Graphics	NVIDIA® GF 6100 uses main memor optional PCI Expr	ry / 425MHz /	one 15-pin a	nalog D	-sub con	nector /	Bay ① 5.25" Bay ② 5.25" Bay ③ 3.5",	, 1.6"	high, ac	cess, or cess, st	d optical ben d or opt o			
SATA disk SATA controller SATA cables EIDE Combo EIDE DVD±RW EIDE controller EIDE cables Diskette drive Media reader	80GB, 160GB, or Serial ATA / 300M One SATA cable ( Some: 48X/32X/- Some: DVD burn Enhanced IDE / A One 2-drop EIDE None	MB/sec SATA3 (one 1-drop to 48X/16X Max ner / Super M ATA-133 / inte cable to opti	600 / integrate o disk) / 2 SAT 11 CD-RW/DV ulti-Burner DL grated in NVII cal / 2 EIDE co	d in sou A conne D-ROM Drive ( DIA MCI onnecto	ectors on Combo 41N5581 P51 southers on pla	planar ) n bridge nar	Bay ④ 3.5", Slot 1: half-le Slot 2: half-le Slot 3: half-le * modem in s	ength, ength, ength, ength,	full-heig full-heig full-heig full-heig	access, st ht, PCI Exp ht, PCI Exp ht, 32-bit P ht, 32-bit P	oress x16 oress x1 CI 2.3 (5	i (75w max v)		
Chipset	NVIDIA GeForce support for PCI E: NVIDIA MCP51 si Low Pin Count int	<sup>®</sup> <b>6100 C51g</b> express x1 slo south bridge for	chipset / C51 t, PCI Expresor SATA300, A		One lock to secure both cover and entire system to fixed object:     Padlock loop (in rear for opt padlock - No security slot (in rear for optional)									
Front ports Rear ports	Two USB 2.0, mic Four USB 2.0, one mouse (PS/2), eth	e 9-pin serial	, parallel (25-r	pin), key			n)	Kensington Microsaver cable) - No keylock - Power-on password						
Rear audio ports Audio External speakers Beeper Ethernet Modem	Microphone-in (m High Definition (H Some: desktop s One internal beep Gigabit ethernet of Some: 56K <sup>10</sup> V.90	ID) Áudio / AI peakers, 2-pi per on planar / Br	D1986Å coded ece, 6 watts (3 oadcom® BCN	c / Soun 3 watts / //5788 /	dMAX® s each), bla PCI 2.3 /	oftware ack, Lenc		Bo     Bo     Ui     Ha     Se	oot sequo oot withon nattende ard disk erial port	ator passwo ence control out keyboard d start mod I/O control t I/O control ort I/O control	ol d, mouse de	, diskette		
Keyboard Mouse Power supply	104-key Preferred Optical Wheel Mo 250 watts / univer	ouse (USB on	ĺy), 400 dpi, b						LII	MITED WAF	RRANTY	1		
Home Premium - Some: Microso Business Edition	oft® Windows® Vistan Edition (32-bit) oft Windows Vistan Con (32-bit) oft Windows Vistan Con (32-bit) cations⁵ (all OSes) Tools Recovery™ ate anager edia Center t Security™ us definitions) iagnostics)  r toogle		nľy), 400 dpi, black						ternatic custome arts are 5 p xcluding ext busionsite se in eligibl 2-year I (Lenovo 0st-wari 1-year (Lenovo 2-year (Lenovo 2-year (Lenovo 2-year (Lenovo 3-year I (Lenovo 3-year I 3-year	nnal Warran r Replaceal available wi om, Mon - F g holidays, ness day re rvice upgra e locations CAR 9x5, Ne Care Mart LOR 9x5, Ne Care part r ranty maint LOR 9x5, N Care part r ser eservice ovo.com/w I-free supp uring the wa SERV (426-	ty Service ty Service to le Unit (the onsite a ri covera esponse a esponse a esponse a esponse a est Busin a number 41 enance se est Busin a number 41 ext Busin a umber 41 ext Busin a umber 41 ext Busin a eranty ort for warranty present extra est	CRU) service <sup>3</sup> , ge time ins  less Day 41K0541) less Day K0542) lervices: <sup>6</sup> less Day 1K0543) less Day K0544) less Day less Day less Day less Day less Day		

## Lenovo™ 3000 J100, J105, J110, J115 Accessories

Partial list of accessories supported on • Lenovo 3000 J100 • Lenovo 3000 J105 • Lenovo 3000 J110 • Lenovo 3000 J115			
Memory SiS or VIA chipset types 8253, 8258 only: 512MB PC3200 CL3 NP DDR1 UDIMM 1GB PC3200 CL3 NP DDR1 UDIMM	73P2686 22P9272	Power and Cables Belkin 7-Outlet Surge Protector  Data/Video Projectors	31P7657
Intel or NVIDIA chipset types 8255, 7387, 739 512MB PC2-5300 CL5 NP DDR2 UDIMM 1GB PC2-5300 CL5 NP DDR2 UDIMM	93 only: 73P4983 ann 06/28/05 73P4984 ann 06/28/05		0037A05 ann 02/28/06 41N3040 ann 02/21/06
Storage and removable storage 40GB Serial ATA150 Disk (7200 rpm) 80GB Serial ATA300 Disk (7200 rpm) 160GB Serial ATA300 Disk (7200 rpm) 250GB Serial ATA300 Disk (7200 rpm) 500GB Serial ATA300 Disk (7200 rpm) 500GB Serial ATA300 Disk (7200 rpm) USB Portable Diskette Drive USB 2.0 Essential Memory Key 1GB USB 2.0 Essential Memory Key 1GB USB 2.0 Security Memory Key 2GB USB 2.0 Security Memory Key 2GB USB 2.0 Security Memory Key 4GB USB 2.0 Security Memory Key 4GB USB 2.0 Portable 80GB Hard Disk USB 2.0 Portable 120GB Hard Disk USB 2.0 Super Multi-Burner Drive  Graphics J110 and J115 Tower models support up to 75	22P6950 73P3300	ThinkVision L171p 17" LCD Monitor ThinkVision L190x 19" LCD Monitor ThinkVision L193y 19" LCD Monitor ThinkVision L194 Wide 19" LCD Monitor ThinkVision L220x Wide 22" LCD Monitor  Monitor Accessories <sup>46</sup> ThinkVision USB Soundbar Kensington® Cable Lock from Lenovo Radial Arm  46 Compatible on selected Lenovo and Thin  Other accessories at http://lenovo.com/acc	essories ssoriesguide d by Lenovo? See
None  Keyboard Preferred Pro USB Keyboard Preferred Pro Full Size PS/2 Keyboard Enh Perf Wireless Keyboard and Mouse  Mouse USB Optical Wheel Mouse Optical 3-Button ScrollPoint® Mouse Lenovo Laser Mouse (USB, PS/2)  Multimedia USB 2.0 Lenovo Multimedia Headset USB 2.0 Lenovo Webcam	73P5220 ann 06/21/05 31P7415 ann 06/04/02 73P4067 ann 12/06/04 06P4069 ann 05/21/03 31P7405 ann 08/27/02 41U3074 ann 01/23/07 40Y8518 ann 06/27/06 40Y8519 ann 08/29/06	Onsite service upgrade options (in eligible lo 2-year Lenovo Onsite Repair 9x5, Next Busi 3-year Lenovo Onsite Repair 9x5, Next Busi 3-year Lenovo Onsite Repair 9x5, Next Busi Post-warranty maintenance services: 6 1-year Lenovo Onsite Repair 9x5, Next Busi 2-year Lenovo Onsite Repair 9x5, Next Busi	ness Day 41K0541 ness Day 41K0542 ness Day 41K0543 ness Day 41K0544

Slot x	Intel		1.2			Madia	CATA	CAT	^^			Evternel		Avail
Type-mod bay	Intel Processor	GHz	L2 cache	Core	Memory <sup>8</sup>	Media reader	SATA disk	SAT/ optic		Graphi	cs Modem	External speakers	Preload	Avail date
9690-03U 4x4 Ce 9690-5GU 4x4 Pe 9690-01U 4x4 Pe 9690-02U 4x4 Pe 9690-6EU 4x4 Pe 9690-7NU 4x4 Co 9690-27U 4x4 Co 9690-28U 4x4 Co 9690-29U 4x4 Co	ntium E2140 ntium E2140 ntium E2140 ntium E2160 ore 2 Duo E4400 ore 2 Duo E4500 ore 2 Duo E4500	1.60 1.80 2.00 2.20 2.20	512KB 1MB 1MB 1MB 1MB 2MB 2MB 2MB 2MB 2MB	Single Dual Dual Dual Dual Dual Dual Dual Dual	512MB 512MB 1GB 1GB 512MB 512MB 512MB 1GB 1GB	None None None None None None None	80GB <sup>2</sup> 80GB 80GB 160GB 80GB 80GB 80GB 80GB 160GB	DVD DVD DVD Com	) nbo )±RW ) ) )	GMA GMA GMA	None None None None None None None None	None None None None None None None None	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	Oct 07 July 07 Oct 07 Oct 07 July 07 July 07 Nov 07 Nov 07 Nov 07
Positioning Processor  Implementation	Excellent performance of the last performance of the	Procestogy, Excache of Dual-C 64 Technology, and Duo Procestogy of the Duo, and Duo,	ssor 42 ecute D r fore Pro hnology nd 1MB ocessor hnology nd 2MB e in FC	o with so isable Executes Shared Shar	ingle-core Bit, 800Mb E2140 o te Disable I L2 cache or E4500 te Disable I L2 cache n LGA775	Hz bus, r <b>E2160</b> e Bit, EIS e or I with e Bit, EIS e 5 socket	ST, ST,	•	6.9"W 175m 22.0 Hand Toolle Toolle optica Toolle	V X 16.  Im W X  Ib (10.0  Ile on to  ess cov  ess dist  al drive  ess ada	op front ver removal k, diskette d removal apter retenti	4"H X 410mm H rive, on		optical ② 9-in-1 disk
Graphics SATA disk	512MB or 1GB non-parity, dual Non-italics: sta Intel Graphics integrated graph one 15-pin anal supports option	-channe andard i <b>Media</b> nics in 9 og D-su al ADD:	el capab memory <b>Acceler</b> 945GC, ub conne 2 adapte	le, two in one ator 95 uses m ector, er but n	240-pin D socket; or 60 (GMA S ain memo	5.25", 3.5", 3.5", half-lei half-lei		ccess, ccess, co access, sght, PCI Exght, PCI Exght, 32-bit	press x16 press x1 PCI 2.3 (5)	liskette sk (75w max) /)				
SATA controller SATA DVD SATA Combo SATA DVD±RW EIDE controller Diskette drive Media reader	80GB or 160GE Serial ATA, 300 four SATA conn Some: DVD-RC Some: CD-RW Some: Super N Enhanced IDE, 1 EIDE connect None None	MB/sec ectors DM DL S /DVD-R fulti-Bui ATA-10 for on p	SATA30 SATA150 OM Cor rner DL 0, integral	00, integ 0 16-48 nbo SA DVD±R rated in	X Max⁴ D TA150 Dr W SATA1 ICH7,		One lock entire sys     Padlock     Security     Kensing     Administi     Boot seq     Boot with	Secur to secure to secure to secure to fixe to loop (in register) grow many secure to look to	ity  ooth cover d object: ar for opt p ar for optio saver® cab ord rol rd, mouse	and padlock) nal ple)				
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet	SATA300, ATA- ITE Tech® IT87' Two USB 2.0, or Four USB 2.0, or mouse (PS/2), of Microphone-in ( High Definition None Internal mono s 10/100 etherne	None  Intel 945GC Express Chipset; I/O Controller Hub 7 (ICH7) for SATA300, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O  Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, one 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (15-pin) Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm] High Definition (HD) audio, AD1988A codec										Limited Warts and la ional Warra er Replace	trol /arranty¹ bor nty Servic able Unit ((	CRU)
	None  104-key Preferred Pro USB Keyboard, black Optical Wheel Mouse (USB only), 400 dpi, black 280 watts, universal, manual switch  ndows XP Professional¹¹² ws® XP Professional  • Diskeeper® Home • Corel® Small Business Center™ with										8 am - 5 excludir next bus Onsite s (in eligil	e available v pm, Mon - ng holidays siness day service upg ble location r LOR 9x5,	Fri coverage, response to rade options): <sup>7</sup>	ge time ns
Preloaded <sup>6</sup> • Lenovo Care <sup>sM</sup> - Rescue and - System Upda - Password Ma • Norton Interne (90 days of viru • PC-Doctor <sup>TM</sup> (c • Adobe <sup>®</sup> Reade • Windows Live <sup>T</sup> • Windows Live	WordPerfect® Office 12								D±RW)	)	(Lenov. 3-year (Lenov. 2-year (Lenov	vo Care <sup>sm</sup> par LOR 9x5, vo Care par irranty main r LOR 9x5, vo Care par LOR 9x5, vo Care par Care servionovo.com/v	art number Next Busir t number 4' Intenance s Next Busir t number 4' Next Busir t number 4' ces at varranty oll-free sup	41K0541) ness Day 1K0542) ervices:6 ness Day 1K0543) ness Day 1K0544)

See footnotes for important warranty information
US models announced July 3, September 25, October 9, or November 6, 2007
US models withdrawn effective March 2008

Slot x Type-mod bay	Intel Processor	GHz	L2 cache	Core	Memory	Media reader	SATA disk	SATA optical	Graphics	Mo- External dem speakers		Vista logo	Avail date
9690-84U 4x4					512MB		80GB	DVD	GMA		Home Basic	Basic	July 07
9690-85U 4x4	Celeron 420	1.60	512KB	Single	512MB	9-in-1	80GB	Combo	GMA	Mod Spkrs	Home Basic	Basic	July 07
9690-58U 4x4	Pentium E2140	1.60	1MB	Dual	1GB		80GB	Combo	GMA		Business 32	Basic	July 07
9690-59U 4x4	Pentium E2140	1.60	1MB	Dual	1GB		160GB	<b>DVD</b> ±RW	/ GMA		Business 32	Basic	July 07
9690-5AU 4x4	Pentium E2140	1.60	1MB	Dual	1GB	9-in-1	320GB	<b>DVD</b> ±RW	/ GMA	Mod Spkrs	Home Premium	Premium	July 07
9690-63U 4x4	Pentium E2160	1.80	1MB	Dual	1GB		160GB	Combo	GMA	•	Business 32	Basic	July 07
9690-62U 4x4	Pentium E2160	1.80	1MB	Dual	1GB	9-in-1	320GB	<b>DVD</b> ±RW	/ GMA	Mod Spkrs	Home Premium	Premium	July 07
9690-23U 4x4	Core 2 Duo E4300	1.80	2MB	Dual	1GB	9-in-1	160GB	Combo	NVIDI	Α '	Business 32	Premium	July 07
9690-7JU 4x4	Core 2 Duo E4400	2.00	2MB	Dual	1GB		80GB	Combo	GMA		Business 32	Basic	July 07
9690-7RU 4x4	Core 2 Duo E4400	2.00	2MB	Dual	1GB		160GB	<b>DVD</b> ±RW	/ GMA		Business 32	Basic	Nov 07
	Core 2 Duo E4400	2.00	2MB	Dual	1GB	9-in-1	320GB	DVD±RW	/ GMA	Mod Spkrs	Home Premium	Premium	July 07

Positioning Processor	Excellent performance at competitive prices Intel® Celeron® Processor 420 with single-core, Intel 64 Tech, Execute Disable Bit, 800MHz bus, and 512KB L2 cache or Intel Pentium® Dual-Core Processor E2140 or E2160 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo Processor E4300 or E4400 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache Processor and L2 cache in FC-LGA6 in LGA775 socket	Tower  Business black and silver bezel 6.9"W X 16.7" D X 16.14"H  175mm W X 424mm D X 410mm H 22.0 lb (10.0 kg) Handle on top front Toolless cover removal Toolless disk, diskette drive, optical drive removal Tolless adapter retention
Memory	512MB or 1GB std / 2GB max <sup>8</sup> / PC2-4200 533MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; Non-italics: standard memory in one socket; one socket available	Bay ① 5.25", 1.6" high, access. standard optical
Graphics (one of following)	Intel Graphics Media Accelerator 950 (GMA 950), integrated graphics in 945GC, uses main memory (up to 256MB), one 15-pin analog D-sub connector, supports optional ADD2 adapter but not dual independent display     NVIDIA® GeForce 7300LE, PCI Express x16 adapter, 128MB DDR2 memory, one DMS-59 connector for dongle with 15-pin analog D-sub and DVI-I connector, S-Video out for TV-out, dual head support	Bay   3.5", 1" high, no access, standard disk  Slot 1: half-length,full-height, PCI Express x16 (75w max)  Slot 2: half-length,full-height, PCI Express x1
	• •	Socurity

	dual flead support
SATA disk SATA controller SATA DVD SATA Combo SATA DVD±RW EIDE controller Diskette drive Media reader	80GB, 160GB, or 320GB, SATA300, 7200 rpm Serial ATA, 300MB/sec SATA300, integrated in ICH7, four SATA connectors Some: DVD-ROM DL SATA150 16-48X Max <sup>4</sup> Drive (41N5618) Some: CD-RW/DVD-ROM Combo SATA150 Drive (41N5619) Some: Super Multi-Burner DL DVD±RW SATA150 Drive (41N5620) Enhanced IDE, ATA-100, integrated in ICH7, 1 EIDE connector on planar None Some: 9-in-1 media reader, occupies diskette drive bay, internal USB 2.0
Chipset	Intel 945GC Express Chipset; I/O Controller Hub 7 (ICH7) for SATA300, ATA-100 EIDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech® IT8718 Super I/O
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet Modem	Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, one 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (15-pin) Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm] High Definition (HD) audio, AD1988A codec Some: desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenovo logo Internal mono speaker 10/100 ethernet, Realtek® RTL8101E, PCle x1 Some: 56K¹0 V.90 data/fax soft modem, PCl adapter
Keyboard Mouse Power supply	104-key Preferred Pro USB Keyboard, black Optical Wheel Mouse (USB only), 400 dpi, black 280 watts, universal, manual switch
Preloaded opera	ating system <sup>20</sup> • Network Magic <sup>TM</sup> • Adobe® Reader

- Some: Microsoft® Windows® Vista Home Basic Edition (32-bit)
- Some: Microsoft Windows Vista Home Premium Edition (32-bit) Some: Microsoft Windows Vista
- Business Edition (32-bit)

# Preloaded applications<sup>5</sup> (all OSes) • Lenovo Care<sup>5M</sup> Tools - Rescue and Recovery<sup>™</sup>

- System Update

  Password Manager

  Lenovo Multimedia Center

  Norton Internet Security<sup>TM</sup>

  Control Internet Security<sup>TM</sup> (90 days of virus definitions) PC-Doctor™ (diagnostics)

- Adobe® Reader
  Windows Live™ Toolbar Windows Live Search
- Picasa from Google

- Diskeeper® Home
   Except Model 23U: Corel® Small Business Center™ with WordPerfect® Office 12
   QuickBooks Financial Center
- Microsoft Office 2007 Trial
- EarthLink Trial (Vista Home Basic, Vista Home Premium)

### Security

- One lock to secure both cover and entire system to fixed object:
- Padlock loop (in rear for opt padlock)
   Security slot (in rear for optional Kensington® Microsaver® cable)
- Administrator password
- · Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O control
- Parallel port I/O control

- 1-year parts and labor
- ✓ International Warranty Service<sup>9</sup>
   ✓ Customer Replaceable Unit (CRU) Customer Replaceable Unit (LRU) parts are available with onsite service<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time Onsite service upgrade options (in plinible locations).<sup>7</sup>
- (in eligible locations):7

   2-year LOR 9x5, Next Business Day
  (Lenovo Care<sup>SM</sup> part number 41K0541)

   3-year LOR 9x5, Next Business Day
- (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:6
  - 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
  - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at http://lenovo.com/warranty
  - 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378

	Slot x			L2		0	Media	SATA		Integrate			External		Avail
• • • • • • • • • • • • • • • • • • • •	bay	Processor	GHz		Core	Memory <sup>8</sup>		disk	optical	graphics			speakers		date
0686-35U 0686-4EU 0686-4AU 0686-4BU 0686-59U 0686-54U 0686-56U	4x4 4x4 4x4 4x4 4x4 4x4 4x4 4x4	Athlon 64 3800+ Athlon 64 3800+ Athlon 64 X2 4000+ Athlon 64 X2 4000+ Athlon 64 X2 4000+ Athlon 64 X2 4400+ Athlon 64 X2 4400+ Athlon 64 X2 4400+ Athlon 64 X2 4800+ Athlon 64 X2 4800+ Athlon 64 X2 4800+	2.4 2.1 2.1 2.3 2.3 2.3 2.5	2x512KB 2x512KB 2x512KB 2x512KB 2x512KB 2x512KB 2x512KB	Dual Dual Dual Dual	512MB 1GB 512MB 1GB 1GB 512MB 1GB 512MB 1GB	None None None None None None None	80GB 80GB 80GB 160GB 80GB 160GB	DVD±RV DVD	X1250 X1250	Yes	None None None None None None None None	None None None None None None None None	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	Aug 0'
Positioning Processor mplementa	AMD® Athlon™ 64 3800+ with single-core, integrated L1/L2 cache, AMD64, integrated DDR2 memory controller, and virtualization technology or AMD Athlon 64 X2 4000+, 4400+, or 4800+ with dual-core, integrated L1/L2 cache, AMD64, integrated DDR2 controller, and virtualization technology								• Bus • 6.9" • 175 • 22.0 • Han	iness bla W X 16. mm W X Ib (10.0 idle on to lless cove	7" D X 1 424mm kg) op front er remov	6.1" H D X 410		9-	otical ② n-1 sk
Memory		512MB or 1GB s non-parity, dual-o Non-italics: star	chánn	el capable,	four 24	0-pin DIN	<b>IM</b> sock	ets;	Toolless disk, diskette drive, optical drive removal     Toolless adapter retention						
Graphics		ATI™ Radeon™ zuses main memo one 15-pin analo optional PCI Exp	ry, g D-s	ub connect	tor,			ors	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, access, opt 9-in-1/disket Bay ④ 3.5", 1" high, no access, standard disk						kette
SATA disk SATA contro SATA DVD	oller	<b>80GB</b> , <b>160GB or 320GB</b> , SATA300, 7200 rpm							Slot 2: half-length,full-heigh Slot 3: half-length,full-heigh				, 32-bit PCI 2.3 (5v)		
SATA Comb SATA DVD± SIDE contro Diskette dri Media read	Combo DVD±RW Some: CD-RW/DVD-ROM Combo SATA150 Drive (41N5619) Some: Super Multi-Burner DL DVD±RW SATA150 Drv (41N5620) Enhanced IDE, ATA-133, integrated in SB600, 1 EIDE connector on None reader None							) on planar		<ul> <li>One lo entire</li> </ul>	ity chip ock to se system		n cover ar bject:	nd <sup>′</sup>	
Chipset								entire system to fixed object: - Padlock loop (in rear for opt padlo - Security slot (in rear for optional Kensington® Microsaver® cable) - Power-on password					or optiona	al	

### Preloaded operating system<sup>20</sup>

- Microsoft® Windows® XP Professional

None

### Preloaded applications<sup>5</sup> (only some listed)

Lenovo Care<sup>SM</sup> Tools

Front ports

Rear ports

Audio

Ethernet

Kevboard

Mouse Power supply

Security chip

Modem

Rear audio ports

External speakers Internal speaker

- Rescue and Recovery™
- System Update Password Manager
- Norton Internet Security™
- (90 days of virus definitions) PC-Doctor™ (diagnostics)
- Adobe® Reader
- Windows Live™ Toolbar Picasa from Google
- Diskeeper® Home
- Corel® Small Business Center™ with WordPerfect® Office 12
- Corel Photo Album Starter™ 6
- Microsoft Office 2007 Trial
- InterVideo WinDVD (combo, DVD, DVD±RW)

### Accessories

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Gigabit ethernet on planar, Marvell® 88E8071, PCIe x1, Wake on LAN®

Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant

Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2),

Microphone-in (stereo), line-in (stereo), line-out (stereo) [all 3.5mm]

mouse (PS/2), ethernet (RJ-45), monitor (15-pin)

High Definition (HD) audio, ALC888 codec

104-key Preferred Pro USB Keyboard, black

280 watts, universal, manual switch

Optical Wheel Mouse (USB only), 400 dpi, black

Internal mono speaker

1GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2001 2GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2002 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 160GB Serial ATA300 Disk (7200 rpm) 09N4254 250GB Serial ATA300 Disk (7200 rpm) 41N3015 500GB Serial ATA300 Disk (7200 rpm) 43R1990 USB Portable Diskette Drive 05K9276 USB 2.0 Essential Memory Key 2GB 41U4944 USB 2.0 Security Memory Key 2GB 41U5119 USB 2.0 Security Memory Key 4GB 41U5120 41N8378 USB 2.0 Portable 80GB Hard Disk USB 2.0 Portable 120GB Hard Disk 41N8379 USB 2.0 Super Multi-Burner Drive-LS 41N5565 Preferred Pro Full Size PS/2 Keyboard 31P7415 Wireless Kbd & Opt Wheel Mouse (via USB) 73P4067 USB 2.0 Lenovo Multimedia Headset 40Y8518 USB 2.0 Lenovo Webcam 40Y8519 ThinkVision® L193p 19" LCD Monitor ThinkVision L194 Wide 19" LCD Monitor 4431HB2 4434HB6 ThinkVision L220x Wide 22" LCD Monitor 4433HB2 ATI Radeon HD 2400 XT 256MB 43R1962 Other accessories at http://lenovo.com/accessories

- Power-on password
- Administrator password Boot sequence control
- Boot without keyboard, mouse, diskette
- Unattended start mode
- Serial port I/O control
- Parallel port I/O control

- 1-year parts and labor
   International Warranty Service<sup>9</sup>
  - Customer Replaceable Unit (CRU) parts are available with onsite service3,
  - . 8 am 5 pm, Mon Fri coverage excluding holidays, next business day response time
- Onsite service upgrade options (in eligible locations):7
  - 2-year LOR 9x5, Next Business Day (Lenovo Care<sup>SM</sup> part number 41K0541)
- 3-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0542) Post-warranty maintenance services:6
  - 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543) 2-year LOR 9x5, Next Business Day
- (Lenovo Care part number 41K0544)
- Lenovo Care services at http://lenovo.com/warranty
- 24 hour x 7 day14 toll-free support during the warranty period1 via 800-426-7378

Type-mod	Slot x bay	AMD Processor	GHz	L2 cache	Core N	lemory	Media reader			Integrated graphics				Avail date
9686-4CU	4x4 Ath	lon 64 X2 4400+ lon 64 X2 4000+	2.1	2x512KB	Dual	1GB	9-in-1	320GB	<b>DVD</b> ±RW			Spkrs	Business 32 Home Premium	
		lon 64 X2 4400+ lon 64 X2 4800+											Home Premium Home Premium	

Positioning Processor	Excellent performance at competitive prices  AMD® Athlon™ 64 X2 4000+, 4400+, or 4800+ with dual-core, integrated L1/L2 cache, AMD64, integrated DDR2 controller, and virtualization technology  Processor in 940-pin PGA package in Socket AM2	Tower  ■ Business black and silver bezel ■ 6.9" W X 16.7" D X 16.1" H ■ 175mm W X 424mm D X 410mm H ■ 22.0 lb (10.0 kg)  □ optical □ ② □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Memory	1GB std, 8GB max <sup>8</sup> , PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics</i> : standard memory in 2 sockets; 2 sockets available	22.0 lb (10.0 kg)     Handle on top front     Toolless cover removal     Toolless disk, diskette drive,
Graphics	ATI™ Radeon™ X1250, integrated graphics in RS690, uses main memory, one 15-pin analog D-sub connector, optional PCI Express x16 adapter can support two monitors	optical drive removal • Toolless adapter retention  Bay ① 5.25", 1.6" high, access, standard optical Bay ② 5.25", 1.6" high, access, open
SATA disk SATA controller SATA Combo SATA DVD±RW EIDE controller Diskette drive Media reader	160GB or 320GB, SATA300, 7200 rpm Serial ATA, 300MB/sec SATA300, integrated in SB600 south bridge, four SATA connectors Some: CD-RW/DVD-ROM Combo SATA150 Drive (41N5619) Some: Super Multi-Burner DL DVD±RW SATA150 Drive (41N5620) Enhanced IDE, ATA-133, integrated in SB600, 1 EIDE connector on planar None 9-in-1 media reader, occupies diskette drive bay, internal USB 2.0	Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, std or opt 9-in-1/dstte Bay ④ 3.5", 1" high, no access, standard disk Slot 1: half-length,full-height, PCI Express x16 (75w max) Slot 2: half-length,full-height, PCI Express x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 (5v) Slot 4: half-length,full-height, 32-bit PCI 2.3 (5v)*  * modem in slot in some models
Chipset	AMD 690G Chipset; I/O Controller Hub SB600 for SATA300, ATA-13 PCI Express x1, PCI Express x16, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O	33 EIDE,  Security  Security chip (see information on left) One lock to secure both cover and
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (15-pin) Microphone-in (stereo), line-in (stereo), line-out (stereo) [all 3.5mm] High Definition (HD) audio, ALC888 codec	mm) entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional

Preloaded operating system<sup>20</sup>
- Some: Microsoft® Windows® Vista
Home Premium Edition (32-bit) Some: Microsoft Windows Vista Business Edition (32-bit) All models: Vista Premium logo

### Preloaded applications<sup>5</sup> (all OSes)

- Lenovo Care<sup>sM</sup> Tools

   Rescue and Recovery<sup>™</sup>
- System Update

Internal speaker

Security chip

Ethernet

Keyboard

Mouse Power supply

Modem

- Password Manager
- Lenovo Multimedia Center
- Norton Internet Security™ (90 days of virus definitions)
  PC-Doctor™ (diagnostics)
  Network Magic™
  Adobe® Reader

- Windows Live™ Toolbar Windows Live Search

- windows Live Search
  Picasa from Google
  Diskeeper® Home
  Corel® Small Business Center™ with
  WordPerfect® Office 12
- QuickBooks Financial Center Microsoft Office 2007 Trial
- EarthLink Trial (Vista Home Premium)

### Accessories

Gigabit ethernet on planar, Marvell® 88E8071, PCIe x1, Wake on LAN® Some: 56K¹⁰ V.90 data/fax soft modem, PCI adapter Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant

External speakers Desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenovo logo

104-key Preferred Pro USB Keyboard, black Optical Wheel Mouse (USB only), 400 dpi, black

280 watts, universal, manual switch

Internal mono speaker

1GB PC2-5300 DDR2 UDIMM (TopSeller)	43R2001
2GB PC2-5300 DDR2 UDIMM (TopSeller)	43R2002
Cuper Multi Durner DL DVD DNA CATA Drive	
Super Multi-Burner DL DVD±RW SATA Drive	
160GB Serial ATA300 Disk (7200 rpm)	09N4254
250GB Serial ATA300 Disk (7200 rpm)	41N3015
500GB Serial ATA300 Disk (7200 rpm)	43R1990
USB Portable Diskette Drive	05K9276
	41U4940
USB 2.0 Essential Memory Key 1GB	
USB 2.0 Essential Memory Key 2GB	41U4944
USB 2.0 Security Memory Key 1GB	41U5118
USB 2.0 Security Memory Key 2GB	41U5119
USB 2.0 Security Memory Key 4GB	41U5120
USB 2.0 Portable 80GB Hard Disk	41N8378
USB 2.0 Portable 120GB Hard Disk	41N8379
USB 2.0 Super Multi-Burner Drive-LS	41N5565
Preferred Pro Full Size PS/2 Keyboard	31P7415
Wireless Kbd & Opt Wheel Mouse (via USB)	
USB 2.0 Lenovo Multimedia Headset	40Y8518
USB 2.0 Lenovo Webcam	40Y8519
ThinkVision® L190x 19" LCD Monitor	4439HB2
ThinkVision L193p 19" LCD Monitor	4431HB2
ThinkVision L194 Wide 19" LCD Monitor	4434HB6
ThinkVision L220x Wide 22" LCD Monitor	4433HB2
ATI Radeon HD 2400 XT 256MB	43R1962
Acc Guide in pdf lenovo.com/accessoriesgu	

Other accessories at http://lenovo.com/accessories

- Administrator password
- Boot sequence control
- · Boot without keyboard, mouse, diskette
- Unattended start mode Serial port I/O control
- Parallel port I/O control

- 1-year parts and labor
- ✓ International Warranty Service<sup>9</sup>
   ✓ Customer Replaceable Unit (CRU) parts are available with onsite service<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays,
- next business day response time Onsite service upgrade options (in eligible locations):7
  - 2-year LOR 9x5, Next Business Day (Lenovo Care<sup>SM</sup> part number 41K0541) **3-year LOR 9x5, Next Business Day**
  - (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:6 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
  - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at http://lenovo.com/warranty
- 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 800-426-7378

## Lenovo™ 3000 J200, J205 Accessories

Partial list of accessories supported on • Lenovo 3000 J200 with 945GC chipset • Lenovo 3000 J205 with 690G chipset			
Memory 512MB PC2-5300 CL5 NP DDR2 UDIMM 1GB PC2-5300 DDR2 UDIMM (TopSeller) 1GB PC2-5300 CL5 NP DDR2 UDIMM 2GB PC2-5300 DDR2 UDIMM (TopSeller) 2GB PC2-5300 CL5 NP DDR2 UDIMM	73P4983 ann 06/28/05 43R2001 ann 03/25/08 73P4984 ann 06/28/05 43R2002 ann 03/25/08 73P4985 ann 09/26/06	Security Kensington® Cable Lock from Lenovo USB GemPlus GemPC Smart Card Reader  Monitors Lenovo E75 17" CRT Monitor (16.0" vis)	6307BTN <i>ann</i> 01/16/07
Optical DVD-ROM DL SATA150 16X-48X Max <sup>4</sup> Drive CD-RW/DVD-ROM Combo SATA150 Drive Super Multi-Burner DL DVD±RW SATA Drive Storage and removable storage	41N5618 ann 09/26/06 41N5619 ann 09/26/06 41N5620 ann 09/26/06	ThinkVision® L151 15" LCD Monitor ThinkVision L171 17" LCD Monitor ThinkVision L171p 17" LCD Monitor ThinkVision L190x 19" LCD Monitor ThinkVision L193p 19" LCD Monitor ThinkVision L194 Wide 19" LCD Monitor ThinkVision L220x Wide 22" LCD Monitor	9165AC6 ann 10/23/07 9227AD1 ann 10/23/07 9417HC2 ann 10/31/06 4439HB2 ann 10/23/07 4431HB2 ann 10/23/07 4434HB6 ann 10/23/07 4433HB2 ann 10/23/07
80GB Serial ATA300 Disk (7200 rpm) 160GB Serial ATA300 Disk (7200 rpm) 250GB Serial ATA300 Disk (7200 rpm) 500GB Serial ATA300 Disk (7200 rpm) 500GB Serial ATA300 Disk (7200 rpm) USB Portable Diskette Drive USB 2.0 Essential Memory Key 1GB USB 2.0 Essential Memory Key 2GB USB 2.0 Security Memory Key 2GB USB 2.0 Security Memory Key 4GB USB 2.0 Security Memory Key 4GB USB 2.0 CD-RW/DVD-ROM Combo II Drive USB 2.0 Portable 80GB Hard Disk USB 2.0 Portable 120GB Hard Disk USB 2.0 Super Multi-Burner Drive	09N4253 ann 05/19/03 09N4254 ann 05/19/03 41N3015 ann 01/24/06 43R1990 ann 11/06/07 05K9276 ann 06/05/00 41U4940 ann 01/23/07 41U5118 ann 07/17/07 41U5119 ann 07/17/07 41U5120 ann 07/17/07 40Y8637 ann 01/05/06 41N8378 ann 04/17/07 41N5565 ann 01/23/07	Monitor Accessories <sup>46</sup> ThinkVision USB Soundbar Kensington Cable Lock from Lenovo Radial Arm <sup>46</sup> Compatible on selected Lenovo and Thir  Medialess License Key (MLK) Microsoft® Office 2007 Basic, English Microsoft Office 2007 Small Business, Engl Microsoft Office 2007 Professional, English	40Y7616 ann 08/23/05 73P2582 ann 12/29/03 19K4464 ann 05/05/00 akVision monitors. 43R1528 ann 01/31/07 43R1534 ann 01/31/07
<b>Graphics</b> J200 Tower 9690 with 945GC models support ATI™ Radeon™ HD 2400 XT 256MB	up to 75 watt max: 43R1962 ann 11/06/07		
J205 Tower 9686 with 690G models support u ATI Radeon HD 2400 XT 256MB	p to 75 watt max: 43R1962 ann 11/06/07	Other accessories at http://lenovo.com/acce Accessories Guide at pdf lenovo.com/acces	
Keyboard Preferred Pro USB Keyboard Preferred Pro Full Size PS/2 Keyboard Wireless Kbd & Opt Wheel Mouse (via USB)	73P5220 ann 06/21/05 31P7415 ann 06/04/02 73P4067 ann 12/06/04	Need to buy accessories no longer marketed www.itxchange.com/lenovo for the Options C	d by Lenovo? See
Mouse Optical Wheel Mouse (USB) Optical ScrollPoint® Mouse (USB, PS/2) Laser Tilt Wheel Mouse (USB, PS/2)	06P4069 ann 05/21/03 31P7405 ann 08/27/02 41U3074 ann 01/23/07	Lenovo Care <sup>sM</sup> maintenance services Onsite service upgrade options (in eligible lo 2-year Lenovo Onsite Repair 9x5, Next Busir 3-year Lenovo Onsite Repair 9x5, Next Busir	ness Day 41K0541
Multimedia USB 2.0 Lenovo Multimedia Headset USB 2.0 Lenovo Webcam	40Y8518 ann 06/27/06 40Y8519 ann 08/29/06	Post-warranty maintenance services: <sup>6</sup> 1-year Lenovo Onsite Repair 9x5, Next Busir 2-year Lenovo Onsite Repair 9x5, Next Busir	
Power and Cables Belkin 7-Outlet Surge Protector	31P7657	Lenovo Care maintenance services at http://	lenovo.com/warranty

Part number	Slot x bay	GHz	L2 cache	Core I	Memory <sup>8</sup>	Media reader		SATA optical					Remote control		Avail date
57-061308	4x5	2.33	4MB	Dual	2GB	8-in-1	500GB	DVD±RW DVD±RW DVD±RW	/ GMA	Viiv Viiv	Mod Mod	Pwr	Remote	Home Prem Home Prem Home Prem	Oct 07

· Power Dial on front to adjust power and energy for three modes (cool, auto, and turbo)

Processor  Implementation	Intel® Pentium® Dual-Core Processor E2140 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo Processor E6550 with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache or Intel Core 2 Quad Processor Q6600 with quad-core (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 4MB shared L2 cache on each die Processor in FC-LGA6 package in LGA775 socket	Tower  Black and s 7.1" W X 17 180mm W 2 28.8 lb (13. Handle on t Toolless coo Toolless ad  Bay ① 5.25",
Memory	2GB or 3GB std, 8GB max <sup>8</sup> (Vista only supports 3.2GB max), PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets  Italics: standard memory in two sockets; 2 sockets available; standard memory in three sockets; 1 socket available	Bay ② 5.25", Bay ③ 3.25", Bay ④ 3.5", Bay ⑤ 3.5", Slot 1: half-le
Graphics	Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in G33, uses main memory, one 15-pin analog D-sub connector	Slot 2: half-le Slot 3: half-le Slot 4: half-le
SATA disk SATA controller	<b>320GB</b> or <b>500GB</b> , SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in ICH9R, supports RAID 0, 1, 5, 10	* TV tuner of two transfers of the two transfers of the t
SATA DVD±RW SATA cables EIDE controller Diskette drive Media reader	Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None 8-in-1 media reader, internal USB 2.0	
Chipset	Intel G33 Express Chipset; I/O Controller Hub 9 RAID (ICH9R) for SATA 3.0Gb/s with RAID 0/1/5/10 support, PCI Express x1, ethernet PCI 2.3, USB, LPC bus / SMSC® SCH5617 Super I/O for serial, para hardware monitoring (temperature, voltage, fan speed)	
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet Modem Security chip	Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (15-pin) Microphone-in, line-in, line-out, CEN/LFE-out, surround-out, SPDIF-High Definition (HD) audio, ADI1988 codec None None 10/100 ethernet on planar, Intel 82566DC (PHY/MAC) <i>Some</i> : 56K <sup>10</sup> V.90 data/fax soft modem, PCI adapter None	,
Intel Viiv TV tuner Remote control Ira receiver Power dial	Some: Intel Viiv™ technology for the home Some: dual tuner high definition ATSC/QAM digital TV plus analog T Hauppauge WinTV-HVR-1800, PCle x1 Philips Vista MCE remote control (40-button) Philips Vista MCE Ira receiver Power dial (with breathing lights) to adjust power and energy for thre (green light for cool mode, blue light for auto mode, and red light for	e modes
Keyboard Mouse Power supply	104-key anti-bacterial keyboard (PS/2) Optical Wheel Mouse (USB), 400 dpi 280 watts, universal, manual switch	
Droloaded energ	oting ovetem?0	

- Preloaded operating system<sup>20</sup>
   Microsoft® Windows® Vista®
  Home Premium Edition (32-bit) *All models:* Vista Premium logo
- Preloaded applications<sup>5</sup>
- Lenovo Rescue System
  - OneKey Antivirus
  - File Management

- File Management
   OneKey Recovery
   Driver & Application Installation
   Lenovo Power Dial
   Trend Micro™ PC-cillin™ Internet Security 2007
   EarthLink®

- Windows Live™ Toolbar
   Microsoft Office 2007 Trial (60-day)
   InterVideo WinDVD (DVD±RW)
- CyberLink Power2Go (DVD±RW)

- silver bezel
- 7.9" D X 15.0" H
- X 455mm D X 380mm H
- .1 kg)
- top front
- ver removal
- sk, optical drive removal
- dapter retention

", 1.6" high, access, ", 1.6" high, access, ", 1" high, access, standard optical open

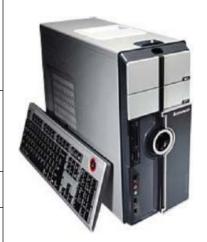
8-in-1 media reader 1" high, no access, standard disk 1" high, no access, opt disk

ength,full-height, PCI Express x16 Ver 1.1 ength,full-height, PCI Express x1 Ver 1.1 ength,full-height, PCI Express x1 Ver 1.1\* ength,full-height, 32-bit PCI Ver 2.3 \*\*

- card in slot in some models
- n slot in some models

### Security

Chassis lock



- 1-year parts and labor
- International Warranty Service<sup>9</sup>
- Customer Replaceable Unit (CRU)
  parts are available with onsite service<sup>3</sup>,
  8 am 5 pm, Mon Fri coverage
  excluding holidays,
  next business day response time
  Lenovo Care services at

- http://lenovo.com/warranty 24 hour x 7 day<sup>14</sup> toll-free support during the warranty period<sup>1</sup> via 1-877-453-6686

standard optical

media reader\*

	lot x bay	Processor	GHz	L2 cache	Cores	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	Modem	Monitor	Camera	Preload	Avail date
57099437 1	1x4	Atom 230 Atom 230 Atom 230	1.60	512KB	1	1GB 1GB 1GB	16-in-1	160GB	DVD±RW DVD±RW DVD±RW	<b>GMA 950</b>	None		None	Home Basic XP Home XP Home	Jan 09 Mar 09 Apr 09

· Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Processor Implementation	Intel® Atom™ Processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache Processor in Micro-FCBGA package in BGA437 socket	Tower  • Black bezel with glossy finish • 6.9" W X 16.1" D X 14.2" H • 175mm W X 409mm D X 360mm H
Memory	1GB std, 2GB max <sup>8</sup> , one 240-pin DIMM socket 57091128:	20.1 lb (9.1 kg) in max configuration  Bay ① 5.25", 1.6" high, access, standard opti
Graphics	Intel Graphics Media Accelerator 950 (GMA 950), integrated graphics in 945GC, uses main memory, one 15-pin analog VGA DB-15 connector	Bay ② 3.0", 1" high, access, media reader Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk * 16-in-1 media reader in some models
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	160GB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Multi-Burner DL DVD±RW SATA 3.0Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors None None None Some: 16-in-1 media reader	Slot 1: half-length, full-height, 32-bit PCI Ver 2.3
Chipset	Intel 945GC Express Chipset, I/O Controller Hub 7 [ICH7] (SATA 3 ethernet MAC, PCI 2.3, USB, LPC bus), ITE Tech® IT8718 Super I/O	
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, one serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo High Definition (HD) audio, ALC662 codec None None 10/100 ethernet on planar, Realtek® RTL8102E None None	
TV tuner Camera	None None	
Keyboard Mouse Power supply	104-key standard keyboard (PS/2 connector) Optical Wheel Mouse (USB connector), 400 dpi 280 watts, universal, manual switch	
Preloaded opera	ating system <sup>20</sup> Preloaded applications <sup>5</sup>	



### Preloaded operating system

Some: Genuine Windows® XP Home Edition

Some: Genuine Windows Vista®

Home Basic 32 ♦ Vista model: Vista Basic logo

### Preloaded applications

- Lenovo® Rescue System
- Driver and Application Installation
   Trend Micro™ PC-cillin™ Internet Security 2008
   Windows Live™ Toolbar
- Microsoft® Office 2007 Trial (60-day)
- (Vista model only) Corel® WinDVD® (DVD±RW)
- CyberLink Power2Go (DVD±RW)

Available at these retailers

- Newegg® TigerDirect

### Limited Warranty<sup>1</sup>

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, Mon - Fri coverage excluding holidays, next business day response time)
- Service upgrade options (in eligible locations):9
  - 3-year Lenovo Onsite Repair 9x5 Next Business Day (43R8882) 24x7<sup>14</sup> toll-free support for warranty
- issues during the warranty period1 via 877-453-6686

See footnotes for important warranty information US models announced Jan 13, March 17, or April 22, 2009; US models withdrawn effective April 2010

standard optical opt 16-in-1 reader

Type-model	Slot x bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	Modem	Monitor	Preload	Avail date
5357-1FU	1x4	Atom 230	1.60	512KB	1GB PC2-5300	16-in-1	160GB	DVD	GMA 950	None		Home Basic	Jan 09
5357-ANU	1x4	Atom 230	1.60	512KB	1GB PC2-6400		160GB	<b>DVD</b> ±RW	GMA 950	None		XP Home	Dec 09
5357-1VU	1x4	Atom 230	1.60	512KB	1GB PC2-6400		160GB <sup>2</sup>	<b>DVD</b> ±RW	GMA 950	None		XP Home	Mar 09
5357-1WU	1x4	Atom 230	1.60	512KB	1GB PC2-6400		160GB	<b>DVD</b> ±RW	GMA 950	None		XP Home	Mar 09
5357-1XU	1x4	Atom 230	1.60	512KB	1GB PC2-6400		160GB	DVD±RW	GMA 950	None	D185	XP Home	Sep 09
5357-1KU	1x4	Atom 230	1.60	512KB	2GB PC2-5300		1TB	DVD±RW	GMA 950	None		Home Basic	Mar 09
5357-1CU	1x4	Atom 230	1.60	512KB	2GB PC2-5300		320GB	DVD±RW	GMA 950	None		Home Basic	Sep 09
5357-1GU	1x4	Atom 230	1.60	512KB	2GB PC2-5300	16-in-1	320GB	DVD±RW	GMA 950	None		Home Basic	Jan 09
5357-ACU	1x4	Atom 230	1.60	512KB	2GB PC2-6400		320GB	DVD±RW	GMA 950	None	D185	Home Basic	Sep 09

· Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Processor Implementation	Intel® Atom™ processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache Processor in Micro-FCBGA package in BGA437 socket	Tower  • Black bezel with glossy finish • 6.9" W X 16.1" D X 14.2" H • 175mm W X 409mm D X 360mm H				
Memory	1GB or 2GB std, 2GB max <sup>8</sup> , one 240-pin DIMM socket; Some: PC2-6400 800MHz DDR2, non-parity; PC2-5300 667MHz DDR2, non-parity	Bay ① 5.25",	kg) in max configuration  1.6" high, access, standard o			
Graphics	Intel Graphics Media Accelerator 950 (GMA 950), integrated graphics in 945GC, uses main memory, one 15-pin analog VGA DB-15 connector	'	1" high, access, opt 16-in-1 re 1" high, no access, standard disk 1" high, no access, optional disk			
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	160GB, 320GB, or 1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Some: DVD-ROM DL SATA 1.5Gb/s 16X-48X Max Some: Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors None None None Some: 16-in-1 media reader	SIGN 1. Hall-le	ength, full-height, 32-bit PCI Ver 2.3			
Chipset	Intel 945GC Express Chipset, I/O Controller Hub 7 [ICH7] (SATA 3 ethernet MAC, PCI 2.3, USB, LPC bus), ITE Tech® IT8718 Super I/O		Jones			
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm), headphone (stereo, 3.5mm) (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15) (Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo High Definition (HD) audio, ALC662 codec None None 10/100 ethernet on planar, Realtek® RTL8102E None None	,	manufactures.			
Monitor TV tuner Camera	Some: D185 Wide Flat Panel Monitor None None					
Keyboard Mouse Power supply	104-key standard keyboard (PS/2 connector) Optical Wheel Mouse (USB connector), 400 dpi 280 watts, universal, manual switch					
Preloaded opera	ating system <sup>20</sup> Preloaded applications <sup>5</sup> (only some	e listed)	Available at these retailers			



- Some: Genuine Windows® XP Home Edition
- Some: Genuine Windows Vista® Home Basic 32
- ♦ Vista models: Vista Basic logo

- Lenovo® Rescue System
- Driver and Application Installation Trend Micro™ PC-cillin™ Internet Security 2008
- Windows Live<sup>™</sup> Toolbar
- Microsoft® Office 2007 Trial (60-day)
- (Vista models only)
  Corel® WinDVD® (DVD±RW)
- CyberLink PowerŻGo (DVD±RW)

- Lenovo.com
- Fry's

- 1-year parts and laborCustomer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>3</sup>, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Service upgrade options (in eligible locations):9
  - 3-year Lenovo Onsite Repair 9x5 Next Business Day (43R8882) 24x7<sup>14</sup> toll-free support for warranty
- issues during the warranty period1 via 877-453-6686

Slot x Part number bay	Processor	GHz	L2 cache	Cores	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	Modem	Cam- era	Vista preload	Avail date
57088764 4x4	Pentium E2200	2.20	1MB	2	2GB		500GB <sup>2</sup>	DVD±RW	GMA 3100	None	None	Prem 32	Oct 08
57088788 4x4	Pentium E2200	2.20	1MB	2	4GB	16-in-1	640GB	DVD±RW	GMA 3100	None	None	Prem 32	Oct 08
57094408 4x4	Pentium E2220	2.40	1MB	2	3GB		320GB	DVD±RW	GMA 3100	None	None	Prem 32	Jan 09
57098997 4x4	Pentium E5200	2.50	2MB	2	4GB		640GB	DVD±RW	GMA 3100	None	None	Prem 64	Mar 09
57088774 4x4	Core 2 Duo E7200	2.53	3MB	2	4GB	16-in-1	640GB	DVD±RW	GMA 3100	None	None	Prem 32	Oct 08
57098966 4x4	Core 2 Duo E7400	2.80	3MB	2	4GB	16-in-1	640GB	DVD±RW	GMA 3100	None	None	Prem 64	Mar 09

· Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Processor  Implementation Memory	Intel® Pentium® Processor E2200, E2220, or E5200 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, E2200/E2220: 1MB L2 cache; E5200: 2MB L2 cache or Intel Core™ 2 Duo Processor E7200 or E7400 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 3MB L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket  2GB, 3GB, or 4GB std, 4GB max³, two 240-pin DIMM sockets; Italics: standard memory in both sockets; no sockets available; 57098966/57098997: PC2-6400 800MHz DDR2, non-parity, dual-channel capable;  Others: PC2-5300 667MHz DDR2, non-parity, dual-channel capable	• Black bezel with glossy finish • 6.9" W X 16.1" D X 14.2" H • 175mm W X 409mm D X 360mm H • 20.1 lb (9.1 kg) in max configuration  Bay ① 5.25", 1.6" high, access, standard optical Bay ② 3.0", 1" high, access, media reader * Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk * 16-in-1 media reader in some models  Slot 1: half-length, full-height, PCI Express x1 Ver 1.1 Slot 2: half-length, full-height, PCI Express x1 Ver 1.1			
Graphics	Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in G31, uses main memory, one 15-pin analog D-sub connector	Slot 4: half-length, full-height, 32-bit PCI Ver 2.3			
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader Chipset	320GB, 500GB, or 640GB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None None Some: 16-in-1 media reader Intel G31 Express Chipset (PCI Express® x16), I/O Controller Hub (SATA 3.0Gb/s, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC b) Winbond® W83627DHG or ITE Tech® IT8718F Super I/O				
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, one serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo), Definition (HD) audio, ALC662 codec				
TV tuner Camera	None None	Available at these retailers  Newegg® TigerDirect			
Keyboard Mouse Power supply	104-key standard keyboard (PS/2 connector) Optical Wheel Mouse (USB connector), 400 dpi 280 watts, universal, manual switch	Limited Warranty¹			
Home - Some: Genuir	<ul> <li>Lenovo® Rescue System</li> <li>Premium 32</li> <li>Lenovo Healthcare Software</li> <li>(Premium 32-bit models only)</li> <li>Driver and Application Installation</li> </ul>	Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>3</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)  Service upgrade options (in eligible locations):  (in eligible locations):  Service upgrade options			

See footnotes for important warranty information
US models announced October 22, 2008 or Jan 13 or March 17, 2009;
US models withdrawn effective April 2010

Slot x Type-model bay	Processor	GHz	L2 cache	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	Modem	Monitor	Vista preload	Avail date
5355-1EU 4x4 5355-1FU 4x4 5355-ADU 4x4 5355-ADU 4x4 5355-AEU 4x4 5355-2JU 4x4 5355-2JU 4x4 5355-2OU 4x4 5355-2DU 4x4 5355-2DU 4x4 5355-2DU 4x4 5355-2DU 4x4 5355-2HU 4x4 5355-3HU 4x4 5355-3HU 4x4 5355-3UU 4x4	Pentium E2200 Pentium E2200 Pentium E2220 Pentium E2220 Pentium E2220 Pentium E5200 Core 2 Duo E7400 Core 2 Duo E7500 Core 2 Duo E7500	2.80 2.93	1MB 1MB 1MB 1MB 1MB 2MB 2MB 2MB 2MB 2MB 2MB 3MB 3MB 3MB 3MB	2GB PC2-5300 3GB PC2-5300 16-in-1 2GB PC2-5300 16-in-1 3GB PC2-5300 16-in-1 3GB PC2-5300 16-in-1 3GB PC2-5300 16-in-1 4GB PC2-6400 4GB PC2-6400 4GB PC2-6400 16-in-1 4GB PC2-6400 16-in-1		500GB <sup>2</sup> 320GB 320GB 320GB 320GB 500GB 500GB 500GB 500GB 640GB 640GB 1TB 320GB 640GB	DVD±RW	GMA 3100 GMA 3100	None None None None None None None None	D185	Prem 32 Prem 32 Prem 32 Prem 32 Prem 32 Prem 32 Prem 64 Prem 64 Prem 64 Prem 32 Prem 64 Prem 32 Prem 64 Prem 64 Prem 64	Oct 08 Nov 08 Jan 09 Jan 09 Jan 09 Jan 09 Sep 09 Sep 09 Nov 08 Mar 09 Feb 09 Sep 09
	Lenovo Rescue	e Syste	m prov	rides OneKey rec	overy ar	nd OneKey	Antivirus v	vithout booti	ng into l	Vindows		
Processor  Implementation	Intel® Pentium® I with dual-core, It 800MHz system I E2200/E2220: 1I Intel Core™ 2 Du Intel 64 Technolog 1066MHz system Processor in FC-	ntel 64 ous, MB L2 o Io Prod gy, Exe I bus, a	Techno cache; cessor cute Di nd 3MI	blogy, Execute Dis E5200/E5300: 2 E7400 or E7500 isable Bit, EIST, B L2 cache	• 6.9" W • 175mn • 20.1 lb	Dezel with glo X 16.1" D X n W X 409mr (9.1 kg) in m 5.25", 1.6" hig 8.0", 1" high	14.2" H n D X 36 nax conf nh, acces	60mm H iguration ss, sta	andard opti edia reader			
Memory	Non-italics: stand	dard me	emory i	in both sockets; r	ts availabl	Bay 3 3 Bay 4 3	8.5", 1" high 8.5", 1" high 1 media reac	, no ac	ccess, sta	andard disk itional disk		

dual-channel capable Graphics Intel Graphics Media Accelerator 3100 (GMA 3100). integrated graphics in G31, uses main memory,

dual-channel capable;

one 15-pin analog D-sub connector

250GB, 320GB, 500GB, 640GB, or 1TB, SATA 3.0Gb/s, 7200 rpm SATA disk Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive SATA controller SATA DVD±RW SATA cables Two SATA cables (each 1-drop to device), four SATA connectors EIDE controller None EIDE cables None Diskette drive None Media reader Some: 16-in-1 media reader

PC2-6400 800MHz DDR2, non-parity,

PC2-5300 667MHz DDR2, non-parity,

Intel G31 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), Chipset Winbond® W83627DHG or ITE Tech® IT8718F Super I/O

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, one serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15) Front ports Rear ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) High Definition (HD) audio, ALC662 codec Rear audio ports Audio

External speakers None Internal speaker None

10/100 ethernet on planar, Intel 82562GZ (PHY/MAC) **Ethernet** 

Modem None Security chip None

TV tuner None Camera None

104-key standard keyboard (PS/2 connector) Optical Wheel Mouse (USB connector), 400 dpi Keyboard Mouse

Power supply 280 watts, universal, manual switch

Preloaded operating system<sup>20</sup> Some: Genuine Windows® Vista® Home Premium 32 Some: Genuine Windows Vista

Home Premium 64 ♦ Vista Basic logo

## Preloaded applications<sup>5</sup>

 Lenovo® Rescue System Lenovo Healthcare Software (Premium 32-bit models only)

Driver and Application Installation
Trend Micro™ PC-cillin™ Internet Security

Windows Live™ Toolbar

Microsoft® Office 2007 Trial (60-day)

VeriFace™

(Premium 32-bit models only) Corel® WinDVD® (DVD±RW)

CyberLink Power2Go (DVD±RW)

Slot 1: half-length, full-height, PCI Express x16 Ver 1.1 Slot 2: half-length, full-height, PCI Express x1 Ver 1.1 Slot 3: half-length, full-height, PCI Express x1 Ver 1.1

Slot 4: half-length, full-height, 32-bit PCI Ver 2.3

Available at these retailers

lenovo.com

Fry's

#### Limited Warranty<sup>1</sup>

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

3-year Lenovo Onsite Repair 9x5 Next Business Day (43R8882) 24x7<sup>14</sup> toll-free support for warranty

issues during the warranty period via 877-453-6686

Slot x Type-model bay	Processor	L2 Processor GHz cache Col			Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	TV tuner	Power supply	Win7 preload	Avail date	
0893-1EU 4x4 0893-1FU 4x4				2 2	2GBx1 2GBx2	16-in-1 16-in-1			Radeon 3000 Radeon 3000				

- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
   These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

Processor  Implementation	AMD® Athlon™ II X2 Processor 240 with dual-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, integrated DDR3 memory controller, and 2MB L2 cache (1MB per core) Processor in Socket AM3	Tower  • Black bezel with glossy finish • 6.9" W X 16.2" D X 14.2" H • 175mm W X 412mm D X 360mm H • 17.6 lb (8.0 kg), weight may vary by configuration
Memory	2GB or 4GB std, 4GB max <sup>8</sup> , dual-channel capable, PC3-8500 1066MHz DDR3, non-parity, two 240-pin DIMM sockets	Bay ① 5.25", 1.6" high, access, standard optical Bay ② N/A, N/A, N/A, media reader*
Graphics	ATI™ Radeon™ 3000, integrated graphics in 760G, uses main memory, DirectX® 10, ATI Avivo™, one analog VGA DB-15 connector, one HDMI connector, HDCP	Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk * Only for optional 16-in-1 media reader
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	320GB or 1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in SB710 Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None None 16-in-1 media reader	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 20 Slot 4: half-length, full-height, 32-bit PCI Ver 2.3
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 SB710 south bridge	support;
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5r Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 10.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 10.5mm), microphone-in (stereo,	lanew
TV tuner Camera	None None	
Keyboard Mouse Power supply	104-key standard keyboard (PS/2 connector) Optical Wheel Mouse (USB connector) 180 watts, universal, manual switch	Limited Warranty¹  ⇒ 1-year parts and labor
- Some: Genuir	ne Windows® 7 Premium 32  • Lenovo® Rescue System • Driver and Application Installation	Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm) Service upgrade options (in eligible locations):³ • 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

Slot x Type-model bay	Pro- cessor	GHz	L2 cache	Memory <sup>8</sup> DIMN capac		SATA disk	SATA optical	Graphics	802.11 wireless	Modem	Power supply	Win7 preload	Avail date
3022-1AU 4x4	E5300	2.60	2MB	4GB (2, 2)	16-in-1	320GB <sup>2</sup>	DVD±RW	GMA X4500		None	180w	Prem 64	Oct 09
3022-1BU 4x4	E5300	2.60	2MB	4GB (2, 2)	16-in-1	1TB	<b>DVD</b> ±RW	GMA X4500		None	180w	Prem 64	Oct 09
3022-1CU 4x4	E7500	2.93	3MB	4GB (2, 2)	16-in-1	500GB	<b>DVD</b> ±RW	GMA X4500		None	180w	Prem 64	Oct 09
3022-1KU 4x4	E7500	2.93	3MB	6GB (2, 2, 2	?) 16-in-1	640GB	<b>DVD</b> ±RW	GMA X4500		None	180w	Prem 64	Oct 09
3022-1DU 4x4	E7500	2.93	3MB	6GB (2, 2, 2	2) 16-in-1	640GB	<b>DVD</b> ±RW	GMA X4500	11b/g <sup>11</sup>	None	180w	Prem 64	Oct 09
3022-1EU 4x4	Q8300	2.50	4MB	4GB (2, 2)	16-in-1	500GB	<b>DVD</b> ±RW	GMA X4500	Ü	None	280w	Prem 64	Oct 09
3022-1FU 4x4	Q8300	2.50	4MB	6GB (2, 2, 2	?) 16-in-1	640GB	DVD±RW	GMA X4500	11b/g	None	280w	Prem 64	Oct 09

• Lenovo Rescue System provides OneKey recovery without booting into Windows

Processor  Implementation	Intel® Pentium® Processor E5300 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB L2 cache or Intel Core 2 Duo™ Processor E7500 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q8300 with quad-core (dual-core on dual-die), Intel 64 Technology, Execute Disable Bit, EIST, 1333MHz system bus, and 4MB L2 cache Processor in FC-LGA6 package in LGA775 socket	Tower  ■ Black bezel with glossy finish ■ 6.9" W X 16.1" D X 14.2" H ■ 175mm W X 409mm D X 360mm H ■ 20.1 lb (9.1 kg) in max configuration  Bay ① 5.25", 1.6" high, access, standard optical Bay ② 3.0", 1" high, access, 16-in-1 media reader Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk
Memory	4GB or 6GB std, 8GB max <sup>8</sup> , PC3-8500 1066MHz DDR3, non-parity dual-channel capable, four 240-pin DIMM sockets	
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G43, uses main memory, DirectX® 10, one 15-pin analog VGA DB-15 connector	Slot 3: half-length, full-height, PCI Express x1 Ver 2.0 Slot 4: half-length, full-height, 32-bit PCI Ver 2.3 * Wireless adapter in slot in some models
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader Chipset	320GB, 500GB, 640GB, or 1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in ICH10R Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), five SATA connectors None None None 16-in-1 media reader Intel G43 Express Chipset (PCI Express® 2.0 x16), I/O Controller [ICH10R] (SATA 3.0Gb/s, PCI Express x1, ethernet MAC, PCI 2.3, U	
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	bus), SMSC® SCH5147-NW Super I/O  Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5 Six USB 2.0, one serial (9-pin), keyboard (PS/2), mouse (PS/2), eth monitor (DB-15)  Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (st High Definition (HD) audio, ALC662 codec None None Some: 11b/g wireless4, Broadcom BCM4312, PCle x1 adapter 10/100 ethernet on planar, Realtek® RTL8102E None None	ernét (RJ-45),
TV tuner Camera	None None	Limited Warranty¹
Keyboard Mouse Power supply	Full-size keyboard (PS/2 connector), Fn keys, black Optical Wheel Mouse (USB connector), 1000 dpi, black Some: 180 watts, universal, manual switch Some: 280 watts, universal, manual switch	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)
Preloaded operated - Genuine Window Home Premium	ows® 7  • Lenovo® OneKey Recovery	⇒ Service upgrade options     (in eligible locations):     • 3-year Lenovo Onsite Repair     9x5 Next Business Day (43R8882)     ≥ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686

See footnotes for important warranty information US models announced October 23, 2009; US models withdrawn effective April 2010

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Slot > Type-model bay	Pro- cessor	GHz	Cache	Memory	/ <sup>8</sup> DIMM capacity	Media reader	SATA disk	SATA optical	Graphics	802.11 wireless	Modem	Power supply	Win7 preload	Avail date
4041-1BU 2x3	i3-540	3.06	4MB	4GB	(2, 2)	8-in-1	500GB <sup>2</sup>	DVD±RW	Intel HD	11b/g/n <sup>28</sup>	None	180W	Prem 64	Jun 10
4041-1CU 2x3	i3-540	3.06			(2, 2, 2)	8-in-1	640GB	DVD±RW	Intel HD	11b/g/n	None	180W	Prem 64	Jun 10
4041-1DU 2x3	i3-550	3.20	4MB	4GB	(2, 2)	8-in-1	1TB	DVD±RW	Intel HD	11b/g/n	None	180W	Prem 64	Aug 10
4041-1JU 2x3	i3-550	3.20	4MB	4GB	(2, 2)	8-in-1	1TB	DVD±RW	Intel HD	11b/g/n	None	180W	Prem 64	Mar 11

- Lenovo Rescue System provides OneKey recovery without booting into Windows
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Processor  Implementation	Intel® Core™ i3 Processor i3-540 or i3-550 with dual-core, Intel 64, Hyper-Threading Technology, integrated 1333MHz DDR3 memory controller, 4MB cache Processor in LGA1156 socket	• 3.9" W X 15	Factor   with glossy finish 5.7" D X 11.5" H X 400mm D X 293mm H
Memory	<b>4GB</b> or <b>6GB std</b> , 8GB max <sup>8</sup> , <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, four 240-pin DIMM sockets	• 21.5 lb (9.7	5 kg) vary by configuration
Graphics	Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX® 10, one 15-pin analog VGA DB-15 connector, one HDMI connector, HDCP	Bay ② 3.3", Bay ③ 3.5",	1.6" high, access, standard optical 0.6" high, access, 8-in-1 media reader 1" high, no access, standard disk
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	500GB, 640GB or 1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors None None None 8-in-1 media reader	ength, Low Profile, PCI Express x16 Ver 2.0 ength, Low Profile, PCI Express x1 Ver 2.0* lapter in slot in some models	
Chipset	Intel H55 Express Chipset		
Front ports Rear ports  Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip TV tuner	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5r Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (sterigh Definition (HD) audio, ALC662 codec None None 11b/g/n wireless <sup>4</sup> , PCle x1 adapter Gigabit ethernet on planar, intel 82578DC None None None	,	
Camera	None		
Keyboard Mouse Power supply	Full-size keyboard (PS/2 connector), Fn keys, black Optical Wheel Mouse (USB connector), black 180 watts, universal, manual switch		Limited Warranty¹
Preloaded oper: - Genuine Wind: Home Premiur	ows® 7 * Lenovo® OneKey Recovery	m	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):  2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)  3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)  24x7¹² toll-free support for warranty issues during the warranty period¹ via 877-453-6686

See footnotes for important warranty information US models announced June 11 or August 25, 2010 or March 23, 2011 US models withdrawn effective November 2011

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(RD1-1) November 2011

Type-model	Slot x bay	GHz	Max turbo (GHz)	Memory	/ <sup>8</sup> DIMM capacity	Media reader	SATA disk	SATA optical	Graphics	802.11 wireless	Modem	Power supply	Win7 preload	Avail date
4041-1EU 4041-1FU		3.06 3.20	3.46	4GB 6GB			500GB <sup>2</sup> 640GB	DVD±RW Blu-ray	Intel HD GeForce 310	None None	None None		Prem 64 Prem 64	

• Lenovo Rescue System provides OneKey recovery without booting into Windows

Implementation Mamory	Intel® Core™ i3 Processor i3-540 with dual-core, Intel 64, Hyper-Threading Technology, integrated 1333MHz DDR3 memory controller, 4MB cache or Intel Core i5 processor i5-650 with dual-core, intel 64, Hyper-Threading Technology, Turbo Boost Technology, TXT, integrated 1333MHz DDR3 memory controller, and 4MB cache Processor in LGA1156 socket  4GB or 6GB std, 8GB max <sup>8</sup> , PC3-8500 1066MHz DDR3, non-parity,	<ul> <li>3.9" W X 15.</li> <li>100mm W X</li> <li>21.5 lb (9.75</li> </ul> Bay ① 5.25",	with glossy finish .7" D X 11.5" H .400mm D X 293mm H .5 kg) vary by configuration 1.6" high, access, standard optical 0.6" high, access, 8-in-1 media reader				
Memory	dual-channel capable, four 240-pin DIMM sockets	Bay ③ 3.5",	1" high, no access, standard disk				
Graphics	Some: Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX® 10, one 15-pin analog VGA DB-15 connector, one HDMI connector, HDCP Some: NVIDIA® GeForce® 310, PCI Express® x16, 512MB, DirectX 10.1, NVIDIA PureVideo®, NVIDIA CUDA™, one analog VGA DB-15 connector, one HDMI connector, HDCP	Slot 2: half-ler  * Wireless ac	1: half-length, Low Profile, PCI Express x16 Ver 2.0 2: half-length, Low Profile, PCI Express x1 Ver 2.0* /ireless adapter in slot in some models raphic adapter in slot in some models				
SATA disk SATA controller SATA optical SATA cables EIDE controller EIDE cables	500GB or 640GB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Some: Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Some: Blu-ray™ Disc reader (no Blu-ray media burning), BD-ROM, DVD and CD recordable Two SATA cables (each 1-drop to device), two SATA connectors None None						
Diskette drive Media reader	None 8-in-1 media reader						
Chipset	Intel H55 Express Chipset						
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	None None Gigabit ethernet on planar, Intel 82578DC None None	,	■ 00 =				
TV tuner Camera	None None		Limited Warranty <sup>1</sup>				
Keyboard Mouse Power supply	Full-size keyboard (PS/2 connector), Fn keys, black Optical Wheel Mouse (USB connector), black Some: 180 watts, universal, manual switch Some: 250 watts, universal, auto-sensing		<ul> <li>1-year parts and labor</li> <li>Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm,</li> <li>Mon - Fri coverage excluding holidays,</li> </ul>				
Preloaded operation - Genuine Window Home Premium	ows® 7 • Lenovo® OneKey Recovery		next business day response time)  Service upgrade options (in eligible locations):  • 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		GHz	Max turbo (GHz)	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	802.11 wireless	USB3.0	Power supply	Keyboard/ Mouse	Win7 preload	Avail date
7780-1PU 7780-1MU					2GBx2 2GB+1				Intel HD Graphics Intel HD Graphics						
7780-1NU	2x3	G620	2.60 2.60		2GBx2	8-in-1	1TB	DVD±RW	Intel HD Graphics	11b/g/n	None	180W	PS/2 / USB	Prem 64	Jul 11
7780-4FU 7780-3FU			2.60 3.30		4GBx1 4GBx1				Intel HD Graphics Intel HD Graphics						
7780-5PU 7780-5QU				3.30	4GBx1 4+2GB				Intel HD Graphics Intel HD Graphics						

- Lenovo Rescue System provides OneKey recovery without booting into Windows
   These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

Processor  Implementation	Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.60 GHz, 3M Cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.10 GHz, 3M Cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache), integrated Intel HD Graphics, 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 Processor in LGA1155 socket	• 21.5 lb (9.75 kg Bay ① 5.25", 1.6 Bay ② 3.3", 0.6 Bay ③ 3.5", 1" Slot 1: half-length * Wireless adap	h glossy finish D X 11.5" H DOmm D X 293mm H g) vary by configuration 5" high, access, standard optical
Memory	dual-channel capable, two 240-pin DIMM sockets  * System automatically clocks down for processors with 1066MHz DDR3 memory controller		
Graphics	Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX® 10, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant (only for i3/i5/i7 models)		Com-
SATA disk SATA controller SATA optical SATA cables EIDE controller EIDE cables Diskette drive Media reader	<b>500GB</b> , <b>1TB</b> , or <b>1.5TB</b> , SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors None None None 8-in-1 media reader		
Chipset	Intel H61 Express Chipset		X-X-774
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	None 11b/g/n wireless <sup>4</sup> , PCIe x1 adapter Gigabit ethernet on planar, Intel 82579V None None	.5mm)	
TV tuner Camera	None None		Limited Warranty <sup>1</sup>
Mouse Power supply  Preloaded opera - Genuine Windo Home Premiun  Preloaded appli • Lenovo® OneK • Driver and App • McAfee® Virus& (60 days of virus)	<ul> <li>Lenovo Eye Distance System</li> <li>Cyberlink PowerDVD (DVD±RW)</li> <li>CyberLink Power2Go (DVD±RW)</li> <li>Windows Live Essentials</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> </ul>	<b>~</b>	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):

See footnotes for important warranty information US model(s) announced July 6 or December 21, 2011 or February 29, 2012 US model(s) withdrawn effective April 2013

Type-model	Slot x bay	GHz	Max turbo (GHz)	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	802.11 wireless	USB3.0	Keyboard/ Mouse	Win7 preload	Avail date
7780-1HU 7780-1JU			3.70	4GBx2		1TB <sup>2</sup>	Blu-ray	Radeon HD 6450			PS/2 / USB		Jun 11
7780-130 7780-4JU				4+2GB 4GBx1		500GB 1TB		Intel HD Graphics Intel HD Graphics					Jun 11 Feb 12
7780-4KU 7780-4LU			3.30 3.30	4GBx2 4GBx2		2TB 2TB	Blu-ray DVD±RW	Radeon HD 6570 Intel HD Graphics					Feb 12 Feb 12
7780-4LU 7780-4MU				4GBx2		2TB	Blu-ray	Radeon HD 6570			USB / USB		

- Lenovo Rescue System provides OneKey recovery without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

#### Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2000, Processor 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, 6MB 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 LGA1155 socket

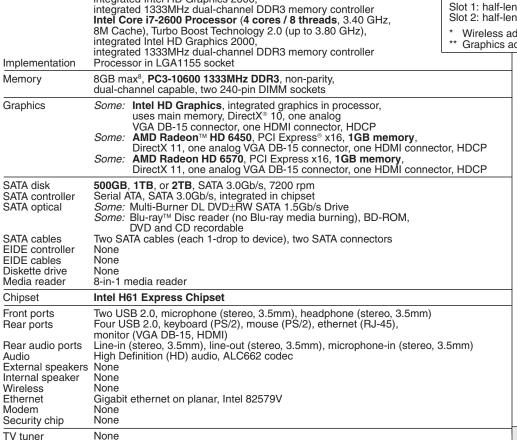
#### Small Form Factor

- Black bezel with glossy finish
- 3.9" W X 15.7" D X 11.5" H 100mm W X 400mm D X 293mm H
- 21.5 lb (9.75 kg) vary by configuration

standard optical 8-in-1 media reader

Slot 1: half-length, Low Profile, PCI Express x16 Ver 2.0\*\* Slot 2: half-length, Low Profile, PCI Express x1 Ver 2.0\*

- Wireless adapter in slot in some models
- Graphics adapter in slot in some models



Full-size keyboard (PS/2 connector), Fn keys, black Full-size keyboard (USB connector), Fn keys, black

Optical Wheel Mouse (USB connector), black

Some: 250 watts, universal, auto-sensing

180 watts, universal, manual switch



## Preloaded operating system<sup>20</sup> - Genuine Windows® 7

None

Some:

Some:

Some:

Home Premium 64

Camera

Mouse

Keyboard

Power supply

Preloaded applications<sup>5</sup>

- Lenovo® OneKey Recovery
- Driver and Application Installation McAfee® VirusScan® Plus (60 days of virus definitions)
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- Cyberlink PowerDVD (DVD±RW, Blu-ray)
- CyberLink Power2Go (DVD±RW, Blu-ray)
- Windows Live Essentials
   Microsoft® Office 2010 preloaded; purchase product key to activate

#### Limited Warranty<sup>1</sup>

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):

- 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)
- 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)
- 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period via 877-453-6686



Lenovo C340/C440



Lenovo C340/C440



Lenovo C340/C440



Lenovo C340/C440



Lenovo C340/C440

			Wide-							PCle Mini						
Part number	Processor	Memory	screen display	Touch screen			SATA disk	Color	TV tuner	Card 802.11	Remote control		USB3.0	HDMI-out	Keyboard/ Mouse	Win8 preload
57311576	i5-3330S	4GBx2	20.0" HD+	None	720p	HD 2500	1TB	Black	None	11b/g/n <sup>28</sup>	None	120W	USB3.0	HDMI-out	USB/Black	Win8 64
57311577	G540	4GBx1	20.0" HD+	None	720p	Intel HD	1TB	White	None	11b/g/n	None	120W	<b>USB3.0</b>	HDMI-out	USB/White	Win8 64
57311578			20.0" HD+												USB/Black	
57311574	i3-3220	4+2GB	20.0" HD+	None	720p	HD 2500	1TB	Black	None	11b/g/n	None	120W	USB3.0	HDMI-out	USB/Black	Win8 64

- All-In-One design with 20.0" 16:9 wide screen
- Stereo speakers supporting Dolby Advanced Audio V2
- Share media on any device from anywhere through Lenovo Cloud
   Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment

Processor	Intel® Celeron® G540 processor (2 cores / 2 threads, 2.50GHz, 2MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Core™ i3-3220 processor (2 cores / 4 threads, 3.30GHz, 3MB cache), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz) Intel Core i5-3330S processor (4 cores / 4 threads, 2.70GHz, 6MB cache), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz)	Preloaded operating system <sup>20</sup> - Windows® 8 64-bit Preloaded applications <sup>14</sup> (only some listed) - Traditional Desktop apps - Lenovo® Rescue System - Lenovo Cloud Storage by SugarSync - Driver and Application Installation
Memory	8GB max <sup>7</sup> / non-parity, <b>PC3-12800 1600MHz DDR3</b> *, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066MHz DDR3 memory controller	Lenovo Dynamic Brightness System     Lenovo Eye Distance System
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in 500GB (7200 rpm) or 1TB (7200 rpm), SATA 3.0Gb/s, 3.5" wide	McAfee® Internet Security     (30-Day Trial)
Widescreen display Multi-touch Camera Controls	20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio  None  HD720p Camera on top of screen, 1.0-megapixel, fixed focus  Power on/off, menu, left, right, and display on/off buttons	Adobe® Reader®     Nitro PDF     CyberLink YouCam     CyberLink PowerDVD (DVD±RW)     CyberLink Power2Go (DVD±RW)     Dolby Advanced Audio V2
Graphics	Intel HD Graphics or Intel HD Graphics 2500, integrated graphics in processor, uses main memory	Microsoft Office preloaded; purchase product key to activate
Chipset Multicard reader Ports	Intel H61 Express Chipset 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity) Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out Side: Two USB 2.0 or optional USB 3.0	Education Portal     Windows Store apps (Metro-style)     Lenovo Support     AccuWeather     eBay     Evernote
PCIe Mini Card 11b/g/n <sup>28</sup>	Two PCIe Mini Card slots (one full size and one half size) 11b/g/n wireless⁴, PCIe half Mini Card, Broadcom® BCM94313, Realtek® RTL8188CE, or Atheros® AR9485	Amazon Kindle     Rara Streaming     Lenovo Companion
TV tuner Bluetooth™ Modem Ethernet	None None None Gigabit ethernet on planar, Realtek RTL8111F	120-watt AC adapter ENERGY STAR® qualified RoHS-compliant
Audio support Security	High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2 certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)  Power-on password, administrator password, security lockhole	Limited Warranty¹²  ⇒ 1-year parts and labor  ⇒ Customer Replaceable Unit (CRU)
Keyboard	Some: USB full-size keyboard, black	parts only (with limited onsite service for selected parts <sup>23</sup> ,
Mouse	Some: USB full-size keyboard, white Some: USB Optical Wheel Mouse, black Some: USB Optical Wheel Mouse, white	8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
Remote control	None	Service upgrade options
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD) including stand: 19.65" x 15.63" x 7.72"; 499.0mm x 397.0mm x 196.0mm From 13.1lb (5.94kg), vary by configuration Front bezel: black color; back bezel: black color Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)	(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	Touch screen		Graphics	SATA disk	SATA optical	Color	TV tuner	PCle Mini Card 802.11	USB3.0	HDMI-out	Keyboard/ Mouse	Win8 preload
57308750	E2-1800	4GBx1	20.0" HD+	None	720p	HD 7340	500GB	DVD±RW	Black	None	11b/g/n <sup>28</sup>	USB3.0	HDMI-out	USB/Black	Win8 64
57312396	E2-1800	4GBx1	20.0" HD+	None	720p	HD 7340	1TB	DVD±RW	Black	None	11b/g/n	USB3.0	HDMI-out	USB/Black	Win8 64

- All-In-One design with 20.0" 16:9 wide screen

- Stereo speakers supporting Dolby Advanced Audio V2
  Share media on any device from anywhere through Lenovo Cloud
  Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment

Processor	AMD Accelerated Processor E2-1800 (2 cores, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, integrated DDR3 memory controller (up to 1333MHz)	Preloaded operating system <sup>20</sup> - Windows® 8 64-bit - Preloaded applications¹⁴ (only some
Memory	8GB max <sup>7</sup> / non-parity, <b>PC3-12800 1600MHz DDR3</b> *, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	listed)  Lenovo® Rescue System
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in <b>500GB</b> (7200 rpm) or <b>1TB</b> (7200 rpm), SATA 6.0Gb/s, 3.5" wide	<ul><li>Lenovo Cloud Storage by SugarSync</li><li>Driver and Application Installation</li></ul>
Widescreen display Multi-touch Camera Controls	20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio None HD720p Camera on top of screen, 1.0-megapixel, fixed focus Power on/off, menu, left, right, and display on/off buttons	Lenovo Dynamic Brightness System     Lenovo Eye Distance System     McAfee® Internet Security     (30-Day Trial)     Adobe® Reader®     Nitro PDF
Graphics	AMD Radeon HD 7340 graphics, integrated graphics in processor, uses main memory, DirectX <sup>®</sup> 11	<ul><li>CyberLink YouCam</li><li>CyberLink PowerDVD (DVD±RW)</li></ul>
Chipset Multicard reader Ports	AMD A68 FCH 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity) Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out Side: Two USB 3.0	CyberLink Power2Go (DVD±RW) Dolby Advanced Audio V2 Microsoft Office preloaded; purchase product key to activate Education Portal Lenovo Support
PCIe Mini Card 11b/g/n²8 TV tuner Bluetooth™ Modem	Two PCIe Mini Card slots (one full size and one half size) 11b/g/n wireless <sup>4</sup> , PCIe half Mini Card, Broadcom® BCM94313, Realtek® RTL8188CE, or Atheros® AR9485 None None None	AccuWeather     eBay     Evernote     Amazon Kindle     Rara Streaming     Lenovo Companion
Ethernet Audio support	Gigabit ethernet on planar, Realtek RTL8111F High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2 certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)	90-watt AC adapter ENERGY STAR® qualified RoHS-compliant
Security Keyboard Mouse Remote control	Power-on password, administrator password, security lockhole  USB full-size keyboard, black  USB Optical Wheel Mouse, black  None	Limited Warranty <sup>12</sup>
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD) including stand: 19.65" x 15.63" x 7.72"; 499.0mm x 397.0mm x 196.0mm From 10.78lb (4.89kg), vary by configuration Front bezel: black or white color; back bezel: black or white color Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)	service for selected parts <sup>23</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Service upgrade options (in eligible locations): • 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552) • 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553) Service 24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

			Wide-	PCIe Mini												
Part number	Drocesso	r Memory	screen			Graphics	SATA	Color	TV	Card 802 11	Remote		IISB3 0	HDMI-out	Keyboard/ Mouse	Win8 preload
- art mannoci	11000330	i incinci	alopiay	00.00	Cia	Grapinos	u.o.c	00101	turior	002.11	COILLIOI	adapter	0000.0	TIDIMI OUL	WOUSE	preioau
57309182	G645	4GBx1	21.5" FHD	None	720p	Intel HD	500GB8	Black	None	11b/g/n <sup>28</sup>	None	120W	None	HDMI-out	USB/Black	Win8 64
57310067	G645	4GBx1	21.5" FHD	None	720p	Intel HD	1TB	Black	None	11b/g/n <sup>28</sup>	None	120W	None	HDMI-out	USB/Black	Win8 64

- All-In-One design with 21.5" 16:9 wide screen

- Stereo speakers supporting Dolby Advanced Audio V2
  Share media on any device from anywhere through Lenovo Cloud
  Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment

Processor	Intel® Pentium® G645 processor (2 cores / 2 threads, 2.90GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller	Preloaded operating system <sup>20</sup> - Windows® 8 64-bit
Memory	8GB max <sup>7</sup> / non-parity, <b>PC3-12800 1600MHz DDR3</b> *, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066MHz DDR3 memory controller	Preloaded applications <sup>14</sup> (only some listed) - Traditional Desktop apps
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in 500GB (7200 rpm) or 1TB (7200 rpm), SATA 3.0Gb/s, 3.5" wide	Lenovo® Rescue System     Lenovo Cloud Storage by SugarSync
Widescreen display Multi-touch Camera Controls	21.5" (546.1mm) Full HD (1920x1080 WUXGA) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio None HD720p Camera on top of screen, 1.0-megapixel, fixed focus Power on/off, menu, left, right, and display on/off buttons	<ul> <li>Driver and Application Installation</li> <li>Lenovo Dynamic Brightness System</li> <li>Lenovo Eye Distance System</li> <li>McAfee® Internet Security (30-Day Trial)</li> <li>Adobe® Reader®</li> </ul>
Integrated graphics	Intel HD Graphics in processor, DirectX® 10, uses main memory	Nitro PDF     CyberLink YouCam
Chipset Multicard reader Ports	Intel H61 Express Chipset 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity) Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out	CyberLink PowerDVD (DVD±RW) CyberLink Power2Go (DVD±RW) Microsoft Office preloaded; purchase product key to activate Education Portal
PCle Mini Card 11b/g/n²8 TV tuner Bluetooth™ Modem Ethernet	Side: Two USB 2.0 or optional USB 3.0  Two PCle Mini Card slots (one full size and one half size) 11b/g/n wireless <sup>4</sup> , PCle half Mini Card, Broadcom® BCM94313, Realtek® RTL8188CE, or Atheros® AR9485 None None None Gigabit ethernet on planar, Realtek RTL8111F	- Windows Store apps (Metro-style)  • Lenovo Support  • AccuWeather  • eBay  • Evernote  • Amazon Kindle  • Rara Streaming  • Lenovo Companion
Audio support Security	High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2 certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm) Power-on password, administrator password, security lockhole	120-watt AC adapter ENERGY STAR® qualified RoHS-compliant
Keyboard Mouse Remote control	USB full-size keyboard, black USB Optical Wheel Mouse, black None	Limited Warranty¹²
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD) including stand: 20.95" x 16.02" x 7.72"; 532.0mm x 407.0mm x 196.0mm From 14.2lb (6.44kg), vary by configuration Front bezel: black color; back bezel: black color Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)	Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>23</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)     Service upgrade options (in eligible locations):     • 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)     • 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553)     ≈ 24x7¹⁵ toll-free support for warranty issues during the warranty period¹² yia 877-453-6686

			Wide-							PCle Mini						
Part <sub>.</sub>	Pro-		screen	Touch	Cam-		SATA		TV	Card	Remote	AC			Keyboard/	Win8
number	cessor	Memory	display	screen	era	Graphics	disk	Color	tuner	802.11	control	adapter	USB3.0	HDMI-out	Mouse	preload
57312695	G2020	4GBx1	23" FHD	None	720p	Intel HD	1TB <sup>8</sup>	Black	None	11b/g/n <sup>28</sup>	None	120W	None	HDMI-out	USB/Black	Win8 64

- All-In-One design with 23" 16:9 wide screen
- Dolby Advanced Audio v2 certified audio system with stereo speakers (3 watt x 2)
  Share media on any device from anywhere through Lenovo Cloud
- Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment

Processor	Intel® Pentium® G2020 processor (2 cores / 2 threads, 2.90GHz, 3MB cache), integrated Intel HD Graphics, DDR3 memory controller (up to 1333MHz)	Preloaded operating system <sup>20</sup> - Windows® 8 64-bit
Memory	8GB max <sup>7</sup> / non-parity, <b>PC3-12800 1600MHz DDR3</b> *, two 204-pin SO-DIMM sockets, dual-channel capable * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Preloaded applications <sup>14</sup> (only some listed) - Traditional Desktop apps
SATA DVD±RW SATA disk SATA controller	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in 1TB (7200 rpm), SATA 6.0Gb/s, 3.5" wide Serial ATA, SATA 3.0Gb/s support, integrated in chipset	Lenovo® Rescue System     Lenovo Cloud Storage by SugarSync     Driver and Application Installation
Widescreen display Multi-touch Camera Controls	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio None HD720p Camera on top of screen, fixed focus Power on/off, menu, left, right, and display on/off buttons	Lenovo Dynamic Brightness System     Lenovo Eye Distance System     McAfee® Internet Security     (30-Day Trial)     Adobe® Reader®     Nitro PDF
Graphics	Intel HD Graphics in processor, DirectX® 10.1, uses main memory	CyberLink YouCam
Chipset Multicard reader Ports	Intel H61 Express Chipset 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity) Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out Side: Two USB 2.0 (Two USB 3.0 on some models)	CyberLink PowerDVD (DVD±RW)     CyberLink Power2Go (DVD±RW)     Microsoft Office preloaded;     purchase product key to activate     Education Portal     Windows Store apps (Metro-style)     Lenovo Support
PCIe Mini Card 11b/g/n <sup>28</sup> TV tuner Bluetooth™ Modem Ethernet Audio support	Two PCIe Mini Card slots (one full size and one half size) 11b/g/n wireless⁴, PCIe half Mini Card, Realtek® RTL8188CE or Atheros® AR9485 None None None Gigabit ethernet on planar, Realtek RTL8111F High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2 certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5	AccuWeather     eBay     Evernote     Amazon Kindle     Rara Streaming     Lenovo Companion
Security	mm), headphone jack (3.5 mm) Power-on password, administrator password, security lockhole	120-watt AC adapter ENERGY STAR® qualified
Keyboard Mouse Remote control	USB full-size keyboard, black USB Optical Wheel Mouse, black None	RoHS-compliant  Limited Warranty <sup>12</sup>
Touchpad	None	
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD) including stand: 22.28" x 16.81" x 7.76"; 566mm x 427mm x 197mm  From 15.9lb (7.23kg), vary by configuration  Front bezel: black or white color; back bezel: black or white color, matches front color Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)	<ul> <li>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)</li> <li>⇒ Service upgrade options (in eligible locations):³</li> <li>• 2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)</li> <li>• 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553)</li> <li>⇒ 24x7¹⁵ toll-free support for warranty issues during the warranty period¹² via 877-453-6686</li> </ul>

			Wide-							PCle Mini						
Part number	Pro- cessor	Memory	screen display	Touch screen			SATA disk	Color	TV tuner	Card 802.11	Remote control	AC adapter	USB3.0	HDMI-out	Keyboard/ Mouse	Win8 preload
57313093	i3-3220	4+2GB	23" FHD	None	720p	Intel HD 2500	1TB <sup>8</sup>	Black	TV	11b/g/n <sup>28</sup>	Remote	120W	USB3.0	HDMI-out	USB/Black	Win8 64
57313703	i3-3220	4+2GB	23" FHD	None	720p	Intel HD 2500	1TB	Black		11b/g/n		120W	USB3.0	HDMI-out	USB/Black	Win8 64
57313699	i5-3330S	4GBx2	23" FHD	None	720p	Intel HD 2500	2TB	Black		11b/g/n		120W	USB3.0	HDMI-out	USB/Black	Win8 64

- All-In-One design with 23" 16:9 wide screen
  Dolby Advanced Audio v2 certified audio system with stereo speakers (3 watt x 2)
  Share media on any device from anywhere through Lenovo Cloud
- Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment

Processor	Intel® Core™ i3-3220 processor (2 cores / 4 threads, 3.30GHz, 3MB cache), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz)	Preloaded operating system <sup>20</sup> - Windows® 8 64-bit
	Intel Core i5-3330S processor (4 cores / 4 threads, 2.70GHz, 6MB cache), Turbo Boost Technology 2.0 (up to 3.20 GHz), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz)	Preloaded applications <sup>14</sup> (only some listed) - Traditional Desktop apps
Memory	8GB max <sup>7</sup> / non-parity, <b>PC3-12800 1600MHz DDR3</b> *, two 204-pin SO-DIMM sockets, dual-channel capable * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Lenovo® Rescue System     Lenovo Cloud Storage by SugarSync     Driver and Application Installation
SATA DVD±RW SATA disk SATA controller	DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in 1TB (7200 rpm) or 2TB (7200 rpm), SATA 6.0Gb/s, 3.5" wide Serial ATA, SATA 3.0Gb/s support, integrated in chipset	Lenovo Dynamic Brightness System     Lenovo Eye Distance System     McAfee® Internet Security
Widescreen display Multi-touch Camera Controls	23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio None HD720p Camera on top of screen, fixed focus Power on/off, menu, left, right, and display on/off buttons	(30-Day Trial) Adobe® Reader® Nitro PDF CyberLink YouCam CyberLink PowerDVD (DVD±RW) CyberLink Power2Go (DVD±RW)
Graphics	Intel HD Graphics 2500 in processor, DirectX® 11, uses main memory	Microsoft Office preloaded;
Chipset Multicard reader Ports	Intel H61 Express Chipset 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity) Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out	purchase product key to activate     Education Portal     Windows Store apps (Metro-style)     Lenovo Support     AccuWeather     eBay
PCIe Mini Card 11b/g/n <sup>28</sup> TV tuner Bluetooth™	Side: Two USB 2.0 (Two USB 3.0 on some models)  Two PCIe Mini Card slots (one full size and one half size)  11b/g/n wireless <sup>4</sup> , PCIe half Mini Card, Realtek® RTL8188CE or Atheros® AR9485  Some: ATSC TV tuner, PCIe Mini Card  None	Ebay     Evernote     Amazon Kindle     Rara Streaming     Lenovo Companion
Modem Ethernet Audio support	None Gigabit ethernet on planar, Realtek RTL8111F High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2 certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5	120-watt AC adapter ENERGY STAR® qualified RoHS-compliant
Security	mm), headphone jack (3.5 mm)  Power-on password, administrator password, security lockhole	Limited Warranty <sup>12</sup>
Keyboard Mouse Remote control Touchpad	USB full-size keyboard, black USB Optical Wheel Mouse, black Some: Remote control, via IR, black None	Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts <sup>23</sup> , 8 am - 5 pm, Mon - Fri coverage
Dimensions <sup>3</sup> Weight <sup>2</sup> Chassis Stand	(WxHxD) including stand: 22.28" x 16.81" x 7.76"; 566mm x 427mm x 197mm From 15.9lb (7.23kg), vary by configuration Front bezel: black or white color; back bezel: black or white color, matches front color Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)	excluding holidays, next business day response time)  Service upgrade options (in eligible locations):  2-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1552)  3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553)  24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	TV tuner	Power supply	Win7 preload	Avail date
7723-1AU	4x4	Athlon II X2 255	3.10	2MB	2	2GBx1	6-in-1	500GB <sup>2</sup>	DVD±RW	Radeon 3000	None	180W	Prem 64	Jan 11
7723-1CU	4x4	Athlon II X4 645	3.10	2MB	4	2GBx2	6-in-1	1TB	<b>DVD</b> ±RW	Radeon 3000	None	280W	Prem 64	Jan 11
7723-1DU	4x4	Athlon II X4 645	3.10	2MB	4	2+4GB	6-in-1	1TB	DVD±RW	Radeon 3000	None	280W	Prem 64	Jan 11
7723-1EU	4x4	Athlon II X2 255	3.10	2MB	2	2GBx2	6-in-1	500GB	DVD±RW	Radeon 3000	None	180W	Prem 64	Jan 11
7723-1FU	4x4	Athlon II X2 255	3.10	2MB	2	1+2GB	6-in-1	500GB	DVD±RW	Radeon 3000	None	180W	Prem 64	Jan 11

- · Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Processor	AMD® Athlon™ II X2 Processor 255 with dual-core,	Tower
Implementation	AMD Athlon II AZ Processor 295 with dual-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, integrated 1066MHz DDR3 memory controller, and 2MB L2 cache (1MB per core)  AMD Athlon II X4 Processor 645 with quad-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, integrated 1333MHz DDR3 memory controller, and 2MB L2 cache (512kB per core) Processor in Socket AM3	Black bezel with glossy finish 6.9" W X 16.9" D X 14.5" H 175mm W X 430mm D X 368mm H 17.6 lb (8.0 kg), weight may vary by configuration  Bay ① 5.25", 1.6" high, access, standard optical Bay ② N/A, N/A, M/A, media reader*  Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk  Yonly for optional 6-in-1 media reader*
Memory	2GB, 3GB, 4GB, or 6GB std, 8GB max <sup>8</sup> , dual-channel capable, PC3-10600 1333MHz DDR3, non-parity, two 240-pin DIMM sockets * System automatically clocks down for processors with 1066MHz DDR3 memory controller	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, 32-bit PCI Ver 2.3
Graphics	ATI™ Radeon™ 3000, integrated graphics in 760G, uses main memory, DirectX® 10, ATI Avivo™, one analog VGA DB-15 connector, one HDMI connector, HDCP-com	pliant
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	500GB or 1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in SB710 Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None None 6-in-1 media reader	
Chipset	<b>AMD 760G Chipset</b> with HyperTransport 3.0 and PCI Express® 2.0 s SB710 south bridge	support;
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (ste High Definition (HD) audio, Realtek® ALC662 codec None None 10/100 ethernet on planar, Realtek 8103EL None None	
TV tuner Camera	None None	
Keyboard Mouse Power supply	104-key standard keyboard (PS/2 connector), black Optical Wheel Mouse (USB connector), black Some: 180 watts, universal, manual switch Some: 280 watts, universal, manual switch	Limited Warranty¹  ⇒ 1-year parts and labor  ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite servi
Preloaded opera	• Microsoft Office 2010 preloaded;	for selected parts <sup>3</sup> , 8 am - 5 pm)

reloaded operating system<sup>2</sup> Genuine Windows® 7 Home Premium 64

#### Preloaded applications<sup>5</sup>

- Lenovo® Rescue System
- Driver and Application Installation McAfee® VirusScan® Plus
- (60 days of virus definitions) Windows Live™ Essential
- Microsoft Office 2010 preloaded; purchase product key to activate
   CyberLink Power2Go (DVD±RW)

- Lenovo Dynamic Brightness System\*
   Lenovo Eye Distance System\*
   Only applicable for optional Lenovo L2362p monitors

- ice

- for selected parts³, 8 am 5 pm)

  Service upgrade options
  (in eligible locations):³

   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

	Slot x ype-model bay Processor		GHz	L2 cache	Cores	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	TV tuner	Power supply	Win7 preload	Avail date
7723-1MU	4x4	Athlon II X2 260	3.20	2MB	2	2GBx1	6-in-1	500GB <sup>2</sup>	DVD±RW	Radeon 3000	None	280W	Prem 64	Jul 11
7723-1NU	4x4	Athlon II X2 260	3.20	2MB	2	2GBx2	6-in-1	500GB	DVD±RW	Radeon 3000	None	280W	Prem 64	Jul 11
7723-1KU	4x4	Athlon II X4 650	3.20	2MB	4	4+2GB	6-in-1	1TB	DVD±RW	Radeon 3000	None	280W	Prem 64	Jul 11
7723-1LU	4x4	Athlon II X4 650	3.20	2MB	4	2GBx2	6-in-1	1TB	DVD±RW	Radeon 3000	None	280W	Prem 64	Jul 11
7723-2CU	4x4	Athlon II X2 260	3.20	2MB	2	2GBx2	6-in-1	1TB	DVD±RW	Radeon 3000	None	280W	Prem 64	Dec 11
7723-2DU	4x4	Athlon II X4 650	3.20	2MB	4	4+2GB	6-in-1	1.5TB	DVD±RW	Radeon 3000	None	280W	Prem 64	Dec 11

- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
   These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

Processor  Implementation	AMD® Athlon™ II X2 Processor 260 with dual-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, integrated 1066MHz DDR3 memory controller, and 2MB L2 cache (1MB per core) AMD Athlon II X4 Processor 650 with quad-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, integrated 1333MHz DDR3 memory controller, and 2MB L2 cache (512KB per core) Processor in Socket AM3	Tower  • Black bezel with glossy finish • 6.9" W X 16.9" D X 14.5" H • 175mm W X 430mm D X 368mm H • 17.6 lb (8.0 kg), weight may vary by configuration  Bay ① 5.25", 1.6" high, access, standard optical Bay ② N/A, N/A, N/A, media reader* Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk * Only for optional 6-in-1 media reader
Memory	8GB max <sup>8</sup> , dual-channel capable, <b>PC3-10600 1333MHz DDR3</b> , non-parity, two 240-pin DIMM sockets  * System automatically clocks down for processors with 1066MHz DDR3 memory controller	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, 32-bit PCI Ver 2.3
Graphics	ATI™ Radeon™ 3000, integrated graphics in 760G, uses main memory, DirectX® 10, ATI Avivo™, one analog VGA DB-15 connector, one HDMI connector, HDCP-com	npliant
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	500GB, 1TB, or 1.5TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in SB710 Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None None 6-in-1 media reader	
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 SB710 south bridge	support;
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 10.5mm) (HD) audio, Realtek® ALC662 codec None None 10/100 ethernet on planar, Realtek 8103EL None None	
TV tuner Camera	None None	Limited Warranty <sup>1</sup>
Keyboard Mouse Power supply	104-key standard keyboard (PS/2 connector), black Optical Wheel Mouse (USB connector), black 280 watts, universal, manual switch	<ul> <li>1-year parts and labor</li> <li>Customer Replaceable Unit (CRU) parts only (with limited onsite service</li> </ul>
Preloaded opera-Genuine Wind-Home Premiur Preloaded appli Lenovo® Rescu Driver and App McAfee® Virus (60 days of virus Windows Live®	purchase product key to activate  CyberLink Power2Go (DVD±RW)  cations  Lenovo Dynamic Brightness Syster  Lenovo Eye Distance System*  Only applicable for optional Lenovo monitors  sedefinitions)	3-year Lenovo Onsite Renair

Type-model	Slot x bay	Processor	GHz	Cache (	Cores	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	TV tuner	802.11 wireless	Power supply	Keyboard / Mouse	Win7 preload
7752-1QU 7752-1RU		Pentium G620 Pentium G620		3MB 3MB	2	4GBx1 4GBx1	6-in-1 6-in-1	1TB <sup>2</sup> 500GB	DVD±RW DVD±RW	Intel HD Intel HD				PS/2 / USB PS/2 / USB	
7752-1SU 7752-1TU		i3-2100 i3-2100		3MB 3MB	2	4GBx1 4+2GB	6-in-1 6-in-1	1TB 1TB	DVD±RW DVD±RW	Intel HD Intel HD			280W	PS/2 / USB PS/2 / USB	Prem 64
7752-2CU 7752-5GU	4x4	i3-2120 Pentium G630	2.70	3MB 3MB	2	2GBx2 4GBx1	6-in-1 6-in-1	1TB 500GB	DVD±RW DVD±RW	Intel HD	None	J	180W	PS/2 / USB USB / USB	Prem 64
7752-5HU	4x4	i3-2120	3.30	3MB	2	4+2GB	6-in-1	500GB	DVD±RW	Intel HD	None		280W	USB / USB	Prem 64

- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
   These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

Processor	Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.60 GHz, 3MB Cache) integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.70 GHz, 3MB Cache) integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.10 GHz, 3MB Cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Preloaded operating system <sup>20</sup> - Genuine Windows® 7 Home Premium 64  Preloaded applications⁵ • Lenovo® Rescue System • Driver and Application Installation • McAfee® VirusScan® Plus (60 days of virus definitions) • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • CyberLink Power2Go (DVD±RW) • Lenovo Dynamic Brightness System*
Memory	8GB max <sup>8</sup> , dual-channel capable, <b>PC3-10600 1333MHz DDR3</b> *, non-parity, two 240-pin DIMM sockets  * System automatically clocks down for processors with 1066MHz DDR3 memory controller	Lenovo Eye Distance System*     Only applicable for optional Lenovo L2362p monitors
Graphics	Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX®10, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant (only for i3/i5/i7 models)	
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	500GB or 1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None None 6-in-1 media reader	Test of the second seco
Chipset	Intel H61 Express Chipset	
Front ports Rear ports  Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) High Definition (HD) audio, Realtek® ALC662 codec None None Some: 11b/g/n wireless4, PCIe x1 adapter Gigabit ethernet on planar, Intel 82579LM None None	lenava
TV tuner Camera	None None	
Keyboard  Mouse Power supply	Some: standard keyboard (PS/2 connector), black Some: standard keyboard (USB connector), black Optical Wheel Mouse (USB connector), black Some: 180 watts, universal, manual switch Some: 280 watts, universal, manual switch	
Mechanical	Tower  Black bezel with glossy finish  6.9" W X 16.9" D X 14.5" H  175mm W X 430mm D X 368mm H  17.6 lb (8.0 kg), weight may vary by configuration  Bay ① 5.25", 1.6" high, access, standard optical  Bay ② N/A, N/A, M/A, media reader*  Bay ③ 3.5", 1" high, no access, standard disk  Bay ④ 3.5", 1" high, no access, optional disk  * Only for optional 6-in-1 media reader  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  * Wireless adapter in slot in 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):³  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	Processor	GHz	Cache	Cores	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	TV tuner	802.11 wireless	Power supply	Keyboard / Mouse	Win7 preload
2558-1PU	4x4	G640	2.80	змв	2	4GBx1	6-in-1	500GB <sup>2</sup>	DVD±RW	Intel HD	None	None	180W	USB / USB	Prem 64
2558-1CU	4x4	i3-2120	3.30	3MB	2	4+2GB	6-in-1	1TB	DVD±RW	Intel HD 2000	None	None	280W	USB / USB	Prem 64
2558-1BU	4x4	i5-2320	3.00	6MB	4	4GBx2	6-in-1	1TB	DVD±RW	Intel HD 2000	None	None	280W	USB / USB	Prem 64

- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
   These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

Processor  Implementation	Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.80 GHz, 3MB Cache) integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB 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, 6MB Cache), integrated Intel HD Graphics 2000, Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Preloaded operating system <sup>20</sup> - Genuine Windows® 7 Home Premium 64  Preloaded applications⁵ (only some listed) • Lenovo® Rescue System • Driver and Application Installation • McAfee® VirusScan® Plus (60 days of virus definitions) • Windows Live™ Essentials
Memory	8GB max <sup>8</sup> , dual-channel capable, <b>PC3-10600 1333MHz DDR3</b> *, non-parity, two 240-pin DIMM sockets  * System automatically clocks down for processors with 1066MHz DDR3 memory controller	Microsoft Office 2010 preloaded; purchase product key to activate     CyberLink Power2Go (DVD±RW)
Graphics	Intel HD Graphics or Intel HD Graphics 2000, integrated graphics in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant (only for i3/i5/i7 models)	
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	500GB or 1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None None 6-in-1 media reader	letion 10
Chipset	Intel H61 Express Chipset	lenovo
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) High Definition (HD) audio, Realtek® ALC662 codec None None None Gigabit ethernet on planar, Intel 82579LM None None	
TV tuner Camera	None None	
Keyboard Mouse Power supply	Standard keyboard (USB connector), black Optical Wheel Mouse (USB connector), black Some: 180 watts, universal, manual switch Some: 280 watts, universal, manual switch	
Mechanical	Tower  Black bezel with glossy finish  6.9" W X 16.9" D X 14.5" H  175mm W X 430mm D X 368mm H  17.6 lb (8.0 kg), weight may vary by configuration  Bay ① 5.25", 1.6" high, access, standard optical  Bay ② N/A, N/A, M/A, media reader*  Bay ③ 3.5", 1" high, no access, standard disk  Bay ④ 3.5", 1" high, no access, optional disk  * Only for optional 6-in-1 media reader  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*  TV tuner, USB 3.0 adapter, or wireless adapter in slot in some models  ** Graphics adapter in slot in 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):³  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	Slot x bay	Processor	GHz	Cache	Cores	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	TV tuner	802.11 wireless	Power supply	Keyboard / Mouse	Win8 preload
57309109	4x4	G645	2.90	змв	2	4GBx1, 1333	6-in-1	1TB <sup>2</sup>	DVD±RW	Intel HD	None	None	180W	USB / USB	Win8 64
57310770	4x4	i3-2130	3.40	3MB	2	4+2GB, 1333	6-in-1	1TB	DVD±RW	Intel HD 2000	None	None	280W	USB / USB	Win8 64
57311432	4x4	i5-3330	3.00	6MB	4	4GBx2, 1600	6-in-1	1TB	DVD±RW	Intel HD 2500	None	None	280W	USB / USB	Win8 64
57312387	4x4	i3-3220	3.30	3MB	2	4+2GB, 1600	6-in-1	1TB	DVD±RW	Intel HD 2500	None	None	280W	USB / USB	Win8 64
57312709	4x4	G2020	2.90	3MB	2	4GBx1, 1333	6-in-1	1TB	<b>DVD</b> ±RW	Intel HD	None	None	180W	USB / USB	Win8 64

· Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Processor  Implementation	Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.90 GHz, 3MB Cache) integrated Intel HD Graphics, DDR3 memory controller (up to 1066MHz) Intel Pentium G2020 Processor (2 cores / 2 threads, 2.90 GHz, 3MB Cache) integrated Intel HD Graphics, DDR3 memory controller (up to 1333MHz) Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.40 GHz, 3MB Cache), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz) Intel Core i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz) Intel Core i5-3330 Processor (4 cores / 4 threads, 3.00 GHz, 6MB Cache), integrated Intel HD Graphics 2500, Turbo Boost Technology 2.0 (up to 3.20 GHz), DDR3 memory controller (up to 1600MHz) Processor in LGA1155 socket	
Memory	8GB max <sup>8</sup> , <b>PC3-10600 1333MHz DDR3</b> or <b>PC3-12800 1600MHz DDR3</b> *, non-parity, dual-channel capable, two 240-pin DIMM sockets  * System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller	
Graphics	Intel HD Graphics, Intel HD Graphics 2000, or Intel HD Graphics 2500, integrated graphics in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant (only for i3/i5/i7 models)	
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None None 6-in-1 media reader	
Chipset	Intel H61 Express Chipset	1
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) High Definition (HD) audio, Realtek® ALC662 codec None None None Gigabit ethernet on planar, Intel 82579LM None None	
TV tuner Camera	None None	
Keyboard Mouse Power supply	Standard keyboard (USB connector), black Optical Wheel Mouse (USB connector), black Some: 180 watts, universal, manual switch Some: 280 watts, universal, manual switch	
	Tower  • Black bezel with glossy finish • 6.9" W X 16.9" D X 14.5" H • 175mm W X 430mm D X 368mm H	

#### Preloaded operating system<sup>20</sup>

Windows® 8 64-bit

#### Preloaded applications<sup>14</sup> (only some listed)

- Lenovo® Rescue System
- Driver and Application Installation Lenovo Cloud Storage by SugarSync

- Lenovo Cloud Storage by SugarS McAfee® Internet Security (30-Day Trial)
  Adobe® Reader®
  Cyberlink PowerDVD (DVD±RW)
  Cyberlink Power2Go (DVD±RW)
  Microsoft Office preloaded;
  purchase product key to activate Intel Appl In®
- Intel AppUp®
- AccuWeather
- Evernote
- Kindle
- Lenovo Support
- Lenovo Companion



- 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>
  • 2-year Lenovo Onsite Repair

- 9x5 Next Business Day (78Y1552) 3-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1553) 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period via 877-453-6686

	Slot x					Media	SATA	SATA		TV	802.11	Power	Keyboard	Win7	Avail
Type-model	bay	Processor	GHz	Cores	Memory <sup>8</sup>	reader	disk	optical	Graphics	tuner	wireless	supply	/ / Mouse	preload	data
3099-1NU	4x4	A6-3600	2.10	4	4GBx1, 1333	6-in-1	500GB <sup>2</sup>	DVD±RW	HD 6530D	None	None	180W	USB / USB	Prem 64	Apr 12
3099-1RU	4x4	A8-3800	2.40	4	2+4GB, 1333	6-in-1	500GB	DVD±RW	HD 6550D	None	None	280W	USB / USB	Prem 64	Apr 12
3099-1DU	4x4	E2-3200	2.40	2	4GBx1, 1333	6-in-1	500GB	DVD±RW	HD 6370D	None	None	180W	USB / USB	Prem 64	Aug12
3099-1VU	4x4	A4-3420	2.80	2	2+4GB, 1333	6-in-1	500GB	DVD±RW	HD 6410D	None	None	180W	USB / USB	Prem 64	Aug12
3099-1UU	4x4	A6-3620	2.20	4	2+4GB, 1600	6-in-1	1TB	DVD±RW	HD 6530D	None	None	280W	USB / USB	Prem 64	Aug12
3099-1TU	4x4	A8-3850	2.90	4	4GBx2, 1600	6-in-1	1TB	DVD±RW	HD 6550D	None	None	280W	USB / USB	Prem 64	Aug12

- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
   These systems are Microsoft<sup>®</sup> Office 2010 Product Key Ready (O10PKR)

#### Processor AMD Accelerated Processor E2-3200 (dual-core, 2.40GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6370D Graphics, integrated DDR3 memory controller (up to 1600MHz) AMD Accelerated Processor A4-3420 (dual-core, 2.80GHz, 1MB L2 cache), integrated AMD Radeon HD 6410D Graphics integrated DDR3 memory controller (up to 1600MHz) AMD Accelerated Processor A6-3600 (quad-core, 2.10GHz, 4MB L2 cache), integrated AMD Radeon HD 6530D Graphics, AMD Turbo Core technology (up to 2.40GHz), integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A6-3620 (quad-core, 2.20GHz, 4MB L2 cache), integrated AMD Radeon HD 6530D Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A8-3800 (quad-core, 2.40GHz, 4MB L2 cache), integrated AMD Radeon HD 6550D Graphics, AMD Turbo Core technology (up to 2.70GHz), integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A8-3850 (quad-core, 2.90GHz, 4MB L2 cache), integrated AMD Radeon HD 6550D Graphics, integrated DDR3 memory controller (up to 1866MHz) Processor in FM1 socket Implementation 8GB max³, dual-channel capable, **PC3-10600 1333MHz DDR3** or **PC3-12800 1600MHz DDR3**, non-parity, two 240-pin DIMM sockets Memory **AMD Radeon HD Graphics**, integrated graphics in processor, uses main memory, DirectX® 11, one analog VGA DB-15 connector, Graphics one HDMI connector, HDCP-compliant SATA disk **500GB** or **1TB**, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive SATA controller SATA DVD±RW SATA cables Two SATA cables (each 1-drop to device), three SATA connectors EIDE controller None None FIDF cables Diskette drive None 6-in-1 media reader Media reader Chipset AMD A55 FCH Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) High Definition (HD) audio, Realtek® ALC662 codec Front ports Rear ports Rear audio ports Audio External speakers None Internal speaker None Wireless None Ethernet Gigabit ethernet on planar, Realtek RTL8111E Modem None Security chip None TV tuner None None Camera Full-size keyboard (USB connector), Fn keys, black Keyboard Mouse Optical Wheel Mouse (USB connector), black Power supply 180 watts, universal, manual switch 280 watts, universal, manual switch Some: Tower Black bezel with glossy finish 6.9" W X 16.9" D X 14.5" H 175mm W X 430mm D X 368mm H

• 17.6 lb (8.0 kg), weight may vary by configuration Bay ① 5.25", 1.6" high, access, standard optica Bay ② N/A, N/A, N/A, media reader\*

Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk \* Only for optional 6-in-1 media reader

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
\*\* Wireless adapter in slot in some models

standard optical

#### Preloaded operating system<sup>20</sup>

Genuine Windows Home Premium 64

#### Preloaded applications<sup>5</sup>

- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® Internet Security (30-Day Trial)
  Windows Live™ Essentials
- Microsoft Office 2010 preloaded; Microsoft Office 2010 predicated, purchase product key to activate
   CyberLink Power2Go (DVD±RW)
   Lenovo Dynamic Brightness System\*
   Lenovo Eye Distance System\*

- Only applicable for optional Lenovo
- L2362p monitors



#### Limited Warranty<sup>1</sup>

- 1-year parts and labor
- Customer Replaceable Unit (CRU) Customer Heplaceable Unit (CHU)
  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>
  • 2-year Lenovo Onsite Repair
- - 9x5 Next Business Day (78Y1552) 3-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1553) 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period1 via 877-453-6686

Mechanical

• Lenovo® OneKey Recovery

McAfee® Internet Security (30-Day Trial)

Preloaded applications<sup>5</sup> (only some

Driver and Application Installation
Lenovo Cloud Storage by SugarSync

(30-Day Trial)

Nitro PDF

Adobe® Reader®

Microsoft® Office preloaded; purchase product key to activate

Cyberlink PowerDVD (DVD±RW)

CyberLink Power2Go (DVD±RW)

Exent Games Portal

Intel Appl In®

- Windows® 8 64-bit

Intel AppUp®AccuWeather Evernote Kindle • Rara Streaming

listed)

Part number	Slot x bay	Processor	GHz	Cores	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	TV tuner	802.11 wireless	Power supply		Win8 preload	Avail data (mm/yy)
57308795	4x4	A4-3420	2.80	2	4GBx1, 1600	) 6-in-1	1TB <sup>2</sup>	DVD±RW	HD 6410D	None	None	180W	USB / USB	Win8 64	11/12
57308959	4x4	A6-3650	2.60	4	4+2GB, 1600	) 6-in-1	1TB	DVD±RW	HD 6530D	None	None	280W	USB / USB	Win8 64	11/12
57308960	4x4	A8-3850	2.90	4	4GBx2, 1600	) 6-in-1	1TB	DVD±RW	HD 6550D	None	None	280W	USB / USB	Win8 64	11/12
57308958	4x4	A8-3850	2.90	4	4GBx2, 1600	) 6-in-1	2TB	DVD±RW	HD 6550D	None	None	280W	USB / USB	Win8 64	11/12

· Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Processor  Implementation	AMD Accelerated Processor A4-3420 (dual-core, 2.80GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6410D Graphics, integrated DDR3 memory controller (up to 1600MHz)  AMD Accelerated Processor A6-3650 (quad-core, 2.60GHz, 4MB L2 cache), integrated AMD Radeon HD 6530D Graphics, integrated DDR3 memory controller (up to 1866MHz)  AMD Accelerated Processor A8-3850 (quad-core, 2.90GHz, 4MB L2 cache), integrated AMD Radeon HD 6550D Graphics, integrated DDR3 memory controller (up to 1866MHz)  Processor in FM1 socket
Memory	8GB max <sup>8</sup> , dual-channel capable, <b>PC3-12800 1600MHz DDR3</b> , non-parity, two 240-pin DIMM sockets
Graphics	AMD Radeon HD Graphics, integrated graphics in processor, uses main memory, DirectX® 11, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant
SATA disk SATA controller SATA DVD±RW SATA cables EIDE controller EIDE cables Diskette drive Media reader	1TB or 2TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), three SATA connectors None None None 6-in-1 media reader
Chipset	AMD A55 FCH
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) High Definition (HD) audio, Realtek® ALC662 codec None None None Gigabit ethernet on planar, Realtek RTL8111E None None
TV tuner Camera	None None
Keyboard Mouse Power supply	Full-size keyboard (USB connector), Fn keys, black Optical Wheel Mouse (USB connector), black Some: 180 watts, universal, manual switch Some: 280 watts, universal, manual switch
Mechanical	Tower  • Black bezel with glossy finish • 6.9" W X 16.9" D X 14.5" H • 175mm W X 430mm D X 368mm H • 17.6 lb (8.0 kg), weight may vary by configuration Bay ① 5.25", 1.6" high, access, standard optical Bay ② N/A, N/A, N/A, media reader* Bay ③ 3.5", 1" high, no access, standard disk Bay ④ 3.5", 1" high, no access, optional disk **Only for optional 6-in-1 media reader 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 **Wireless adapter in slot in some models



- 1-year parts and labor
- 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
- 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		Pro- cessor	GHz	Cores	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	802.11 wireless	TV tuner	Power adapter	Keyboard/ Mouse	Win8 preload	Avail date (mm/yy)
57308578	1x2	E2-1800	1.70	Dual	4GBx1	7-in-1	500GB <sup>2</sup>	DVD±RW	Radeon HD 7340	None	None	65W	USB / USB	Win8 64	01/13
57312710	1x2	E2-1800	1.70	Dual	4GBx1	7-in-1	1TB	DVD±RW	Radeon HD 7340	None	None	65W	USB / USB	Win8 64	03/13

• Lenovo Rescue System provides OneKey recovery without booting into Windows

Processor  Implementation		r E2-1800 (2 cores, 1.70GHz, MD Radeon HD 7340 Graphics, htroller (up to 1333MHz)	• 4.1" L X 14	Factor (11L) ck and brushed metal .2" D X 12.0" H X 360mm D X 305mm H
Memory	two 240-pin DIMM sockets	MHz DDR3*, non-parity, single-channel, down for processors with 1333MHz DDR3	• 11.0 lb (5.0 Bay ① 5.25", Bay ② 3.5",	kg) vary by configuration , 1.6" high, access, standard optical 1" high, no access, standard disk
Graphics	AMD Radeon HD 7340 grap uses main memory, DirectX® one HDMI connector, HDCP	hics, integrated in processor, 11, one analog VGA DB-15 connector,	Slot 1: half-le	ength, Low Profile, PCI Express x1 Ver 2.0
SATA disk SATA optical SATA controller SATA cables EIDE controller EIDE cables Diskette drive Multicard reader	None None None	TA 1.5Gb/s Drive		
Chipset	AMD A68 FCH			
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	Two USB 2.0, two USB 3.0, e Line-in (stereo, 3.5mm), line-t High Definition (HD) audio, Rone None None 10/100M ethernet on planar, None None			
TV tuner Camera	None None			
Keyboard Mouse Power supply	Full-size keyboard (USB conr Optical Wheel Mouse (USB c 65 watts power adapter, ENE	onnector), black		Limited Warranty¹  ⇒ 1-year parts and labor
Preloaded operating system <sup>20</sup> - Windows® 8 64-bit  Preloaded applications <sup>5</sup> (only some listed) • Lenovo® OneKey Recovery • Driver and Application Installation • Lenovo Cloud Storage by SugarSync • McAfee® Internet Security (30-Day Trial) • Nitro PDF • Adobe® Reader® • Microsoft® Office preloaded; purchase product key to activate		Cyberlink PowerDVD (DVD±RW, Blu-ray     CyberLink Power2Go (DVD±RW, Blu-ray     Exent Games Portal     Intel AppUp®     AccuWeather     Evernote     Kindle     Rara Streaming     eBay     Lenovo Support     Lenovo Companion		<ul> <li>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)</li> <li>Service upgrade options (in eligible locations):³</li> <li>2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)</li> <li>3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)</li> <li>24x7¹⁴ toll-free support for warranty issues during the warranty period¹ via 877-453-6686</li> </ul>

See footnotes for important warranty information US model(s) withdrawn effective March 2014

© Lenovo (CRET3-1) March 2013

Type-mode	Slot x		GHz	Max turbo (GHz)	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	802.11 wireless	USB3.0	Power supply	Keyboard/ Mouse	Win7 preload	Avail date (mm/yy)
2561-2JU 2561-1SU 2561-1LU	J 2x2	G640 i3-2120 i5-2320		3.30	4GBx1 4GBx1 4+2GB	7-in-1	1TB	DVD±RW	Intel HD Graphics Intel HD 2000 Intel HD 2000	11b/g/n <sup>28</sup> 11b/g/n 11b/g/n	None	180W	USB / USB USB / USB USB / USB	Prem 64	08/12

- · Lenovo Rescue System provides OneKey recovery without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Processor  Implementation	Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.80 GHz, 3MB Cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB 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, 6MB Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	• Glossy blac • 4.1" L X 14. • 105mm W > • 17.4 lb (7.9  Bay ① 5.25", Bay ② 3.5", Slot 1: half-le Slot 2: half-le	k a .2"   X 36 kg) , 1.6 1"
Memory	8GB max <sup>8</sup> , <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets  * System automatically clocks down for processors with 1066MHz DDR3 memory controller	* Graphics a ** TV tuner o	ada or U
Graphics	Intel HD Graphics or Intel HD Graphics 2000, integrated in processor, u memory, one analog VGA DB-15 connector, one HDMI connector, HDCP	ses main	
SATA disk SATA controller SATA optical SATA cables EIDE controller EIDE cables Diskette drive Multicard reader	500GB or 1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None None 7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro)		
Chipset	Intel H61 Express Chipset		]
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) microphone-in (stereo, 3.5mm), microphone-	3.5mm)	
TV tuner Camera	None None		<b>₽</b>
Keyboard Mouse Power supply	Full-size keyboard (USB connector), Fn keys, black Optical Wheel Mouse (USB connector), black Some: 180 watts, universal, manual switch Some: 240 watts, universal, auto-sensing		2
1			

Genuine Windows Home Premium 64

#### Preloaded applications<sup>5</sup>

- Lenovo® OneKey Recovery
   Driver and Application Installation
   McAfee® AntiVirus Plus
- (60 days of virus definitions)
- Power Setting
- Cyberlink PowerDVD (Blu-ray models)
   CyberLink Power2Go (DVD±RW, Blu-ray models)
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate

#### ctor (11L)

- and brushed metal
- D X 12.0" H
- 360mm D X 305mm H
- g) vary by configuration

.6" high, access, standard optical " high, no access, standard disk

gth, Low Profile, PCI Express x16 Ver 2.0\* gth, Low Profile, PCI Express x1 Ver 2.0\*\*

- apter in slot on some models
- USB 3.0 card in slot on some models



#### Limited Warranty<sup>1</sup>

- 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, 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) 24x7<sup>14</sup> toll-free support for warranty
- issues during the warranty period1 via 877-453-6686

See footnotes for important warranty information US model(s) withdrawn effective March 2014

standard optical

Part numbe	Slot x r bay		GHz	Max turbo (GHz)	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	802.11 wireless	USB3.0	Power supply	Keyboard/ Mouse	Win8 preload	Avail date (mm/yy)
57309119	2x2	G645	2.90		4GBx1	7-in-1	500GB <sup>2</sup>	DVD±RW	Intel HD Graphics	11b/g/n <sup>28</sup>	None	180W	USB / USB	Win8 64	11/12
57311165	2x2	i3-2130	3.40		4GBx1	7-in-1	500GB	DVD±RW	Intel HD 2000	Ŭ	None	180W	USB / USB	Win8 64	11/12
57311128	2x2	i3-2130	3.40		4GBx1	7-in-1	1TB	<b>DVD</b> ±RW	Intel HD 2000	11b/g/n	None	180W	USB / USB	Win8 64	11/12
57311365	2x2	i5-3330	3.00	3.20	4+2GB	7-in-1	1TB	DVD±RW	Intel HD 2500	11b/g/n	None	240W	USB / USB	Win8 64	11/12
57312711	2x2	G2020	2.90		4GBx1	7-in-1	1TB	DVD±RW	Intel HD Graphics	11b/g/n	None	180W	USB / USB	Win8 64	02/13
57312877	2x2	i3-3220	3.30		4GBx1	7-in-1	1TB	DVD±RW	Intel HD 2500	11b/g/n	None	180W	USB / USB	Win8 64	02/13

Lenovo Rescue System provides OneKey recovery without booting into Windows

Small Form Factor (11L) Processor Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.90 GHz, 3MB Cache), integrated Intel HD Graphics, · Glossy black and brushed metal integrated 1066MHz dual-channel DDR3 memory controller • 4.1" L'X 14.2" D X 12.0" H Intel Pentium G2020 Processor (2 cores / 2 threads, 2.90 GHz, 3MB Cache), integrated Intel HD Graphics, • 105mm W X 360mm D X 305mm H • 17.4 lb (7.9 kg) vary by configuration integrated 1333MHz dual-channel DDR3 memory controller Intel Core<sup>TM</sup> i3-2130 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2000, Bay ① 5.25", 1.6" high, access, standard optic Bay ② 3.5", 1" high, no access, standard disk integrated 1333MHz dual-channel DDR3 memory controller Slot 1: half-length, Low Profile, PCI Express x16 Ver 2.0\* Intel Core i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2500, Slot 2: half-length, Low Profile, PCI Express x1 Ver 2.0\* integrated 1600MHz dual-channel DDR3 memory controller Graphics adapter in slot on some models Intel Core i5-3330 Processor (4 cores / 4 threads, 3.00 GHz, 6MB Cache), Turbo Boost Technology 2.0 (up to 3.20 GHz), TV tuner or USB 3.0 card in slot on some models integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Implementation Processor in LGA1155 socket 8GB max8, PC3-10600 1333MHz DDR3, non-parity, Memory dual-channel capable, two 240-pin DIMM sockets \* System automatically clocks down for processors with 1066MHz DDR3 Intel HD Graphics, Intel HD Graphics 2000, or Intel HD Graphics 2500 Graphics integrated in processor, uses main memory, one VGA connector, one HDMI connector 500GB or 1TB, SATA 3.0Gb/s, 7200 rpm SATA disk Serial ATA, SATA 3.0Gb/s, integrated in chipset SATA controller Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive SATA optical SATA cables Two SATA cables (each 1-drop to device), four SATA connectors EIDE controller None EIDE cables None Diskette drive None Multicard reader 7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro) Chipset Intel H61 Express Chipset Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Front ports Rear ports Rear audio ports High Definition (HD) audio, ALC662 codec Audio External speakers None None Internal speaker Some: 11b/g/n wireless<sup>4</sup>, PCIe Half Mini Card, Realtek® or Atheros® chip Gigabit ethernet on planar, Realtek RTL8111F Wireless Ethernet Modem None Security chip None TV tuner None Camera None Keyboard Full-size keyboard (USB connector), Fn keys, black

# Limited Warranty<sup>1</sup>

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):

- 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552) 3-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1553)
- 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period1 via 877-453-6686

Preloaded operating system<sup>20</sup>

Windows® 8 64-bit

Preloaded applications<sup>5</sup> (only some listed)

Some:

Lenovo® OneKey Recovery

- Driver and Application Installation Lenovo Cloud Storage by SugarSync
- McAfee® Internet Security (30-Day Trial)
- Nitro PDF

Mouse

Power supply

- Adobe® Reader®
- Microsoft® Office preloaded; purchase product key to activate

- Cyberlink PowerDVD (DVD±RW, Blu-ray models)
- CyberLink Power2Go (DVD±RW, Blu-ray models)
- Exent Games Portal
- Intel AppUp®
- AccuWeather
- Evernote

Optical Wheel Mouse (USB connector), black

Some: 240 watts, universal, auto-sensing

180 watts, universal, manual switch

- Kindle
- Rara Streaming
- eBay
- Lenovo Support
- Lenovo Companion



Slot x Pr		Max turbo Hz (GHz)	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	802.11 wireless USB3.0	Power supply	Keyboard/ Mouse	Win7 preload	Avail date (mm/yy)
2561-5AU 2x2 i3-	-2130 3	.40	4+2GB	7-in-1	1TB <sup>2</sup>	DVD±RW	Intel HD 2000	None USB3.0	180W	2.4G / 2.4G	Prem 64	08/12

- · Lenovo Rescue System provides OneKey recovery without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Processor  Implementation	Intel® Core™ i3-2130 Processor (2 cores / 4 threads, 3.40 GHz, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	• Glossy blac • 4.1" L X 14. • 105mm W X
Memory	8GB max <sup>8</sup> , <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets	• 17.4 lb (7.9
Graphics	Intel HD Graphics 2000, integrated in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP	Bay ① 5.25", Bay ② 3.5", Slot 1: half-le
SATA disk SATA controller SATA optical SATA cables EIDE controller EIDE cables Diskette drive Multicard reader	1TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None None None 7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro)	Slot 1: Half-le Slot 2: half-le * Graphics a ** TV tuner o
Chipset	Intel H61 Express Chipset	
Front ports Rear ports  Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0 and two USB 3.0 (Via USB 3.0 adding card on selected more thernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Definition (HD) audio, ALC662 codec None None Righ Definition (HD) audio, ALC662 codec None None None None None None None	, .
TV tuner Camera	None None	
Keyboard Mouse Power supply	2.4G wireless Ultra Slim keyboard, 6-row, Fn keys, black 2.4G wireless Laser Wheel Mouse, black 180 watts, universal, manual switch	

Genuine Windows® Home Premium 64

#### Preloaded applications<sup>5</sup>

- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® AntiVirus Plus (60 days of virus definitions)
- Power Setting
- Cyberlink PowerDVD (Blu-ray)
- CýberLink Power2Go (DVD±ŔW, Blu-ray)
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate

### Factor (11L)

- ck and brushed metal
- .2" D X 12.0" H
- X 360mm D X 305mm H
- kg) vary by configuration

1.6" high, access, standard optical 1" high, no access, standard disk

ength, Low Profile, PCI Express x16 Ver 2.0\* ength, Low Profile, PCI Express x1 Ver 2.0\*\*

- adapter in slot on some models
- or USB 3.0 card in slot on some models



- 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) 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period1 via 877-453-6686

Slot x Pro- Type-model bay cessor	Max turbo GHz (GHz)		SATA disk	SATA optical	Graphics	802.11 wireless	USB3.0	Power supply	Keyboard/ Mouse	Win7 preload	Avail date (mm/yy)
4746-1DU 2x2 i3-2120 4746-1FU 2x2 i7-3770 4746-1HU 2x2 i7-3770 4746-1KU 2x2 i7-3770 4746-1VU 2x2 i5-2320	3.40 3.90 3.40 3.90 3.40 3.90	4+2GB 7-in-1 4GBx2 7-in-1 4GBx2 7-in-1 4GBx2 7-in-1 4GBx2 7-in-1	1TB <sup>2</sup> 2TB 2TB 2TB 1TB	DVD±RW DVD±RW BD burner BD burner DVD±RW	Radeon HD 7570 Intel HD 4000 GeForce GT 620 Radeon HD 7570 Intel HD 2000	None None None	USB3.0 USB3.0 USB3.0	240W 240W 240W	2.4G / 2.4 2.4G / 2.4 2.4G / 2.4	G Prem 64 G Prem 64 G Prem 64 G Prem 64 G Prem 64	06/12 06/12 06/12

- Lenovo Rescue System provides OneKey recovery without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Processor  Implementation	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB 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, 6MB Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8MB 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 LGA1155 socket	Small Form I Glossy blace 4.1" L X 14. 105mm W 2 17.4 lb (7.9) Bay ① 5.25", Bay ② 3.5", Slot 1: half-le Slot 2: half-le * Graphics a
Memory	8GB max <sup>8</sup> , <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets	** TV tuner o
Graphics	Some: Intel HD Graphics 2000 or 4000, integrated in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP  Some: NVIDIA GeForce GT 620, PCI Express® x16, 1GB DDR3, DirectX 11, one analog VGA DB-15 connector, one HDMI connect Some: AMD Radeon™ HD 7570, PCI Express x16, 2GB DDR3, DirectX 11, one analog VGA DB-15 connector, one HDMI connect	
SATA disk SATA controller SATA optical SATA cables EIDE controller EIDE cables Diskette drive Multicard reader	1TB or 2TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Some: Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Some: Blu-ray™ burner, Blu-ray and DVD disk recordable Two SATA cables (each 1-drop to device), four SATA connectors None None None 7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro)	
Chipset	Intel H61 Express Chipset	
Front ports Rear ports Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0 and two USB 3.0 (Via USB 3.0 adding card on selected more ethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Definition (HD) audio, ALC662 codec None None None Gigabit ethernet on planar, Realtek RTL8111F None None	,,
TV tuner Camera	None None	
Keyboard Mouse Power supply	2.4G wireless Ultra Slim keyboard, 6-row, Fn keys, black 2.4G wireless Laser Wheel Mouse, black 240 watts, universal, auto-sensing, 85% PSU, 80 PLUS® Bronze qualified	
Preloaded oners	eting system <sup>20</sup> • Power Setting	

Genuine Windows Home Premium 64

- Preloaded applications⁵
   Lenovo® OneKey Recovery
   Driver and Application Installation
- McAfee® AntiVirus Plus (60 days of virus definitions)
- Power Setting
- Cyberlink PowerDVD (Blu-ray)
   CyberLink Power2Go (DVD±RW, Blu-ray)
   Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate

#### Factor (11L)

- ck and brushed metal
- .2" D X 12.0" H
- X 360mm D X 305mm H
- 9 kg) vary by configuration

, 1.6" high, access, standard optical 1" high, no access, standard disk

ength, Low Profile, PCI Express x16 Ver 2.0\* ength, Low Profile, PCI Express x1 Ver 2.0\*\*

- adapter in slot on some models
- or USB 3.0 card in slot on some models



- 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) 24x7<sup>14</sup> toll-free support for warranty
- issues during the warranty period1 via 877-453-6686

Type-mode	Slot x I bay	Pro- cessor	GHz	Max turbo (GHz)	Memory <sup>8</sup>	Media reader	SATA disk	SATA optical	Graphics	802.11 wireless	USB3.0	Power supply	Keyboard/ Mouse	Win8 preload	Avail date (mm/yy)
57310716	2x2	i3-2130	3.40		4GB	7-in-1	1TB <sup>2</sup>	DVD±RW	Intel HD 2000	None	USB3.0	180W	USB / USB	Win8 64	12/12
57310714	2x2	i3-3220	3.30		4+2GB	7-in-1	2TB	DVD±RW	Intel HD 2500	None	USB3.0	180W	USB / USB	Win8 64	12/12
57310722	2x2	i7-3770	3.40	3.90	4GBx2	7-in-1	2TB	<b>DVD</b> ±RW	Intel HD 4000	None	USB3.0	240W	USB / USB	Win8 64	12/12
57310721	2x2	i7-3770	3.40	3.90	4GBx2	7-in-1	2TB	BD burner	GeForce GT 630	None	USB3.0	240W	USB / USB	Win8 64	12/12
57310718	2x2	i5-3330	3.00	3.20	4GBx2	7-in-1	1TB	DVD±RW	Intel HD 2500	None	USB3.0	240W	USB / USB	Win8 64	02/13

#### Lenovo Rescue System provides OneKey recovery without booting into Windows

Processor	Intel® Core™ i3-2130 Processor (2 cores / 4 threads, 3.40 GHz, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller 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, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8MB Cache), Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller Processor in LGA1155 socket	Small Form F  Glossy blact 4.1" L X 14 105mm W X 17.4 lb (7.9)  Bay ① 5.25", Bay ② 3.5", Slot 1: half-let Slot 2: half-let * Graphics a ** TV tuner o	ka 2" (3 kg 1. ng
Memory	8GB max <sup>8</sup> , <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 240-pin DIMM sockets		
Graphics	Some: Intel HD Graphics 2000, 2500, or 4000, integrated in processor, uses main memory, one analog VGA DB-1 one HDMI connector, HDCP  Some: NVIDIA GeForce GT 630, PCI Express® x16, 2GB DDR3, DirectX® 11, one analog VGA DB-15 connector, one HDMI connector.		
SATA disk SATA controller SATA optical SATA cables EIDE controller EIDE cables Diskette drive Multicard reader	1TB or 2TB, SATA 3.0Gb/s, 7200 rpm Serial ATA, SATA 3.0Gb/s, integrated in chipset Some: Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Some: Blu-ray™ burner, Blu-ray and DVD disk recordable Two SATA cables (each 1-drop to device), four SATA connectors None None None 7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro)		
Chipset	Intel H61 Express Chipset		
Front ports Rear ports  Rear audio ports Audio External speakers Internal speaker Wireless Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0 and two USB 3.0 (Via USB 3.0 adding card on selected modethernet (RJ-45), monitor (VGA DB-15, HDMI) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3 High Definition (HD) audio, ALC662 codec None None None Gigabit ethernet on planar, Realtek RTL8111F None None		
TV tuner Camera	None None		
Keyboard Mouse Power supply	Full-size keyboard (USB connector), Fn keys, black Optical Wheel Mouse (USB connector), black Some: 180 watts, universal, manual switch Some: 240 watts, universal, auto-sensing		5
Preloaded opera	• Cyberlink PowerDVD (DVD±RW, Blu-ray r	models)	

Preloaded operating system
- Windows® 8 64-bit

#### **Preloaded applications**<sup>5</sup> (only some listed)

- Lenovo® OneKey Recovery
- Driver and Application Installation
- Lenovo Cloud Storage by SugarSync
- McAfee<sup>®</sup> Internet Security
- (30-Day Trial) Nitro PDF
- Adobe® Reader®
- Microsoft® Office preloaded; purchase product key to activate

- Cyberlink PowerDVD (DVD±RW, Blu-ray models)
   CyberLink Power2Go (DVD±RW, Blu-ray models)
- Exent Games Portal
- Intel AppUp®
- AccuWeather
- Evernote
- Kindle
- Rara Streaming
- eBay
- Lenovo Support
- Lenovo Companion

#### actor (11L)

- and brushed metal
- " D X 12.0" H
- 360mm D X 305mm H
- g) vary by configuration

.6" high, access, standard optical 1" high, no access, standard disk

ngth, Low Profile, PCI Express x16 Ver 2.0\* ngth, Low Profile, PCI Express x1 Ver 2.0\*\*

- dapter in slot on some models
- USB 3.0 card in slot on some models



### Limited Warranty<sup>1</sup>

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):

- 2-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1552) 3-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1553) 24x7<sup>14</sup> toll-free support for warranty issues during the warranty period<sup>1</sup> via 877-453-6686

- <sup>23</sup> **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.
- Wireless WAN Cards: Wireless data service requires separate agreement with Verizon Wireless. Verizon Wireless, not Lenovo, is solely responsible for service. Monthly and airtime charges may apply. Service may not be available in all areas; purchaser is responsible for verifying with Verizon Wireless that service is available for the intended location before the purchase of the card. For complete details, including service plans, additional required hardware or software, and service coverage, visit www.verizonwireless.com.
- 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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- Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
- <sup>2</sup> Hard disk drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- 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.
- <sup>4</sup> CD and DVD list maximum rates; rates are variable and are often less than the maximum.
- Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.
- <sup>6</sup> **Post-warranty annual maintenance agreement:** Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.

- Lenovo Care Services: Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part at your discretion, will be express shipped to you for quick replacement. See Lenovo Care terms and conditions for complete details and restrictions.
- 8 Memory: For PCs without a separate video card, memory supports both system and video. Accessible system memory is up to 64MB less than the amount stated, depending on video mode.
- International Warranty Service is available for most models in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.
- 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.
- 11 For combination drives, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.
- <sup>14</sup> Response times may vary. May exclude some holidays. Telephone support may be subject to additional charges.
- 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.

# lenovo

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