



*Personal Systems Reference  
Lenovo® ThinkPad® SL Notebooks  
2008 to present - withdrawn*

*February 2013 - Version 432*



ThinkPad Edge 13"



Lenovo® ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s



Lenovo ThinkPad Edge E220s

# ThinkPad® Edge E220s 5038 (TopSeller) - withdrawn

Personal Systems Reference (PSREF)

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

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

Positioning Processor	<i>Elegant design with quality, reliability, and portability for SMB customers; one spindle</i> <b>Intel® Core™ i3-2357M processor (dual-core, 1.30GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), Hyper-Threading technology <b>Intel Core i3-2367M processor (dual-core, 1.40GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), Hyper-Threading technology <b>Intel Core i5-2467M processor (dual-core, 1.60GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.30GHz), HT technology <b>Intel Core i5-2537M processor (dual-core, 1.40GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.30GHz), HT technology <b>Intel Core i7-2617M processor (dual-core, 1.50GHz, 4MB Cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology	<b>Preloaded operating system<sup>20</sup></b> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 <b>Ready to install applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Fingerprint Software (fingerprint models) • Password Manager (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox
Memory	4GB max <sup>7</sup> / PC3-10600 1333MHz DDR3, non-parity, one 204-pin SO-DIMM socket	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • Adobe Acrobat® X Standard (bundled with Microsoft Office)
Optical	None	
SATA disk	Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, Shock Mounted Hard Drive	
mSATA	None	
Widescreen display	<b>12.5"</b> (317.5mm) <b>HD (1366x768) color</b> , anti-glare display with glossy infinity glass, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio	
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus	
Graphics	<b>Intel HD Graphics 3000</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI port)@60Hz</i>	
Keyboard	6-row, spill-resistant, multimedia Fn keys	
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar <sup>13</sup>	
Touch pad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, scrolling regions, multi-touch	
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions <sup>3</sup>	<i>12.5W" (WxDxH): 12.32" x 8.41" x 0.86"; 313mm x 213.5mm x 21.9mm</i>	
Weight <sup>2</sup>	starting at 3.23 lb (1.46kg)	
Case color	Moss Black soft touch finish, authentic metal accents	
Case material	Magnesium/Aluminum + PPS	
Battery - type <sup>37</sup>	Integrated Lithium Ion 8-cell, 1000 cycle battery	
Battery - life <sup>10</sup>	<i>8-cell (40.7Whr): up to 6.0 hr</i>	
Chipset	<b>Mobile Intel HM65 Express Chipset</b>	
ExpressCard/34	None	
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports	Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
PCIe Mini Card WLAN <sup>4</sup>	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2	Supports ThinkVantage® technologies
WWAN	None	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>
Modem	None	
Bluetooth™	Some: Bluetooth 3.0 wireless	
Ethernet	Realtek® RTL8111E Gigabit Network Connection	
Intel AMT	None	
Audio support	High Definition (HD) Audio, Conexant 20671 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / mono digital microphone, combo audio/mic jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	For compatible accessories, please go to O-E220-S sheet;
Security chip	None	
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor	For Lenovo <sup>22</sup> service upgrade options, please go to S-EDGE sheet
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for more detailed information  
US model(s) announced December 20, 2011; previous model(s) on April 19, June 21, July 5 or October 4, 2011  
US model(s) withdrawn effective May 2012

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(AMS1-1) February 2013

**Memory**

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

**Storage and removable storage**

USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann 08/28/12
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

**ThinkPad Expansion**

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

**Keyboard**

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

**Mouse**

ThinkPad Bluetooth Laser Mouse	0A36407	ann 06/26/12
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	ann 12/20/11
<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.		

**Security**

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

**Multimedia**

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

**Modem**

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
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**Power adapters**

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

More info at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

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

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

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

**Carrying Cases**

*Up to 13.3" widescreen models:*

ThinkPad Ultraportable Case	41U5062	ann 05/13/08
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*Up to 15.6" widescreen models:*

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

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

**Monitors**

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

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

**Monitor Accessories<sup>46</sup>**

Lenovo USB Soundbar	0A36190	ann 05/01/12
Lenovo HDMI to HDMI Monitor Cable	0B47070	ann 05/22/12
Lenovo HDMI to VGA Monitor Cable	0B47069	ann 06/26/12
Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:  
[www.lenovo.com/accessories](http://www.lenovo.com/accessories)  
 Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)  
 Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)  
 Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)  
 An Options Compatibility Configurator for Lenovo systems

# ThinkPad®



Lenovo® ThinkPad Edge 13"



Lenovo ThinkPad Edge 13"  
(Glossy black model)



Lenovo ThinkPad Edge 13"  
(Glossy red model)



ThinkPad Battery 73+ (6-cell)    57Y4565  
ThinkPad Battery 73 (4-cell)    57Y4564



USB 2.0 Portable DVD Burner  
43N3264



Lenovo ThinkPad Edge 13"

**ThinkPad® Edge 13" 0196 (Intel) - TS (XP with Win 7 License) - withdrawn** *Personal Systems Reference (PSREF)*

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Top color	Blue-tooth	Battery cells	Preload	Avail date
0196-5QU	SU7300	1.30	4GB	13.3" HD	0.3M	GMA	320G 7200	Intel 1000	None	Matte black	Blue	6	XP Pro	Jul 10

• **This small and medium business (SMB) model is part of the US TopSeller™ Program**

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; one spindle</i> <b>Intel® Core™ 2 Duo processor SU7300</b> with ultra low voltage, <b>dual-core</b> , 800MHz system bus, and 3MB L2 cache										<b>Preloaded operating system<sup>20</sup></b> - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32			
Memory	<b>4GB</b> std / 4GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available										<b>Preloaded applications<sup>14</sup></b> (only some listed)			
Optical drive SATA disk	None (use optional USB Portable DVD Burner 43N3264) <b>320GB<sup>8</sup></b> (7200 rpm) / SATA 1.5Gb/s or 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Password Manager</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Toolbox</li> <li>• Adobe® Reader®</li> <li>• Adobe Flash® Player</li> <li>• Skype™ for Windows</li> </ul>			
Widescreen display Camera	<b>13.3"</b> (338mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Camera on top of screen, 0.3-megapixel, low light sensitive													
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GS45, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2048x1536@75Hz</i>													
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch										Supports ThinkVantage® technologies			
ThinkLight™	None													
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<b>13.3W" (WxDxH):</b> 12.7" x 9.0" x 1.0"; 322 x 228mm x 25.4mm (excluding battery bump) <i>4-cell:</i> starting at 3.59 lb (1.63kg); <i>6-cell:</i> starting at 3.81 lb (1.73kg) Matte black (top), trimmed with a thin silver band (side); black bottom										65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378			
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>6-cell</b> <i>4-cell:</i> up to 5.3 hr; <i>6-cell:</i> up to 8.0 hr													
Chipset	<b>Mobile Intel GS45 Express Chipset</b> (Graphics Memory Controller Hub); <b>ICH9M</b> I/O Controller Hub													
ExpressCard Smart Card Read Multicard Reader Ports	None None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, XD) Three USB 2.0 (one powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974			
PCIe Mini Card Intel 1000 WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 None None Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Conexant® CX20582 codec / stereo speakers, 1 watt x 2/ mono microphone, combo audio/mic jack													
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None										ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>			
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available													

See footnotes for important warranty information  
US model announced July 6, 2010  
US model withdrawn effective October 2010

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(PAR1-3) October 2010

# ThinkPad® Edge 13" 0196 (Intel) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Top color	Blue-tooth	Battery cells	Preload	Avail date
0196-24U	SU7300	1.30	<b>3GB</b>	13.3" HD	0.3M	GMA	320G 7200	Intel 1000	None	Matte black	Blue	6	Pro 32	Jan 10
0196-4YU	SU7300	1.30	<b>3GB</b>	13.3" HD	0.3M	GMA	320G 7200	Intel 1000	None	Glossy black	Blue	6	Pro 32	Jan 10
0196-5DU	SU7300	1.30	2GB	13.3" HD	0.3M	GMA	250G 5400	Intel 1000	None	Glossy red		6	Pro 32	Apr 10
0196-5EU	SU7300	1.30	<b>3GB</b>	13.3" HD	0.3M	GMA	250G 5400	WiMAX	None	Matte black	Blue	6	Pro 32	Apr 10
0196-5FU	SU7300	1.30	2GB	13.3" HD	0.3M	GMA	250G 5400	Intel 1000	None	Matte black		6	Home P 64	Apr 10

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

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; one spindle</i> <b>Intel® Core™ 2 Duo processor SU7300</b> with ultra low voltage, <b>dual-core</b> , 800MHz system bus, and 3MB L2 cache	<b>Preloaded operating system</b> <sup>20</sup> - <i>Some:</i> Genuine Windows® 7 Home Premium 64 - <i>Some:</i> Genuine Windows 7 Professional 32  <b>Preloaded applications</b> <sup>14</sup> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch
Memory	<b>2GB</b> or <b>3GB</b> std / 4GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	
Optical drive SATA disk	None (use optional USB Portable DVD Burner 43N3264) <b>250GB</b> <sup>8</sup> (5400 rpm) or <b>320GB</b> (7200 rpm) / SATA 1.5Gb/s or 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™	
Widescreen display Camera	<b>13.3"</b> (338mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Camera on top of screen, 0.3-megapixel, low light sensitive	
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GS45, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2048x1536@75Hz</i>	
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<i>13.3W" (WxDxH):</i> 12.7" x 9.0" x 1.0"; 322 x 228mm x 25.4mm (excluding battery bump) <i>4-cell:</i> starting at 3.59 lb (1.63kg); <i>6-cell:</i> starting at 3.81 lb (1.73kg) Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom	
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>6-cell</b> <i>4-cell:</i> up to 5.3 hr; <i>6-cell:</i> up to 8.0 hr	
Chipset ExpressCard Smart Card Read Multicard Reader Ports	<b>Mobile Intel GS45 Express Chipset</b> (Graphics Memory Controller Hub); <b>ICH9M</b> I/O Controller Hub None None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, XD) Three USB 2.0 (one powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
PCIe Mini Card Intel 1000 WiMAX WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> 11a/b/g/n and WiMAX wireless, PCIe Half Mini Card, Intel Centrino Advanced-N + WiMAX 6250, 2x2 AGN + 1x2 WiMAX None None <i>Some:</i> Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Conexant® CX20582 codec / stereo speakers, 1 watt x 2/ mono microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None None	
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	Supports ThinkVantage® technologies  65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>

See footnotes for important warranty information  
 US models announced January 5 or April 6, 2010  
 US models withdrawn effective February 2011

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 (PAR-1) February 2011

# ThinkPad® Edge 13" 0197 (AMD) - TS (XP with Win 7 License) - withdrawn Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Top color	Blue-tooth	Battery cells	Preload	Avail date
0197-8CU	L325	1.50	<i>3GB</i>	13.3" HD	0.3M	HD 3200	250G 5400	11b/g/n	None	Matte black	None	6	XP Pro	Jul 10

- *This small and medium business (SMB) model is part of the US TopSeller™ Program*

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; one spindle</i> <b>AMD® Athlon™ Neo X2 Dual-Core processor L325</b> with <b>dual-core</b> , virtualization technology, integrated DDR2 memory controller, and 1MB L2 cache										<b>Preloaded operating system<sup>20</sup></b> - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32			
Memory	<b>3GB</b> std / 4GB max <sup>7</sup> / PC2-5300 667MHz <b>DDR2</b> , non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available										<b>Preloaded applications<sup>14</sup></b> (only some listed)			
Optical drive SATA disk	None (use optional USB Portable DVD Burner 43N3264) <b>250GB<sup>8</sup></b> (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Password Manager</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Toolbox</li> <li>• Adobe® Reader®</li> <li>• Adobe Flash® Player</li> <li>• Skype™ for Windows</li> </ul>			
Widescreen display Camera	<b>13.3"</b> (338mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Camera on top of screen, 0.3-megapixel, low light sensitive										Supports ThinkVantage® technologies			
Integrated graphics	<b>ATI™ Radeon™ HD 3200 graphics</b> , in M780G, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2456x1536@60Hz</i>													
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch										65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378			
ThinkLight™	None													
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<i>13.3W" (WxDxH):</i> 12.7" x 9.0" x 1.0"; 322 x 228mm x 25.4mm (excluding battery bump) <i>4-cell:</i> starting at 3.61 lb (1.64kg); <i>6-cell:</i> starting at 3.83 lb (1.74kg) Matte black (top), trimmed with a thin silver band (side); black bottom										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>			
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>6-cell</b> <i>L325 models with 4-cell:</i> up to 3.3 hr; <i>6-cell:</i> up to 5.0 hr													
Chipset ExpressCard Smart Card Read Multicard Reader Ports	<b>AMD M780G Chipset</b> , SB710 south bridge None None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, XD) Three USB 2.0 (one powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										ThinkPlus 2-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974			
PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Audio support	Two PCI Express Mini Card slots 11b/g/n wireless <sup>4</sup> , ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® RTL8191SE None None None Realtek RTL8111DL Gigabit Network Connection High Definition (HD) Audio, Conexant® CX20582 codec / stereo speakers, 1 watt x 2/ mono microphone, combo audio/mic jack													
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None										Limited warranty <sup>12</sup> <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available			
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available													

See footnotes for important warranty information  
US model announced July 6, 2010  
US model withdrawn effective October 2010

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(PAR1-4) October 2010



# ThinkPad® Edge 13" 0197 (AMD) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Top color	Blue-tooth	Battery cells	Preload	Avail date
0197-26U	L325	1.50	2GB	13.3" HD	0.3M	HD 3200	250G 5400	11b/g/n	None	Matte black	None	4	Home P 64	Jan 10
0197-27U	L325	1.50	3GB	13.3" HD	0.3M	HD 3200	250G 5400	11b/g/n	None	Matte black	None	6	Pro 32	Jan 10
0197-6XU	L325	1.50	3GB	13.3" HD	0.3M	HD 3200	250G 5400	11b/g/n	None	Glossy black	None	6	Pro 32	Jan 10

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

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; one spindle</i> <b>AMD® Athlon™ Neo X2 Dual-Core processor L325</b> with <b>dual-core</b> , virtualization technology, integrated DDR2 memory controller, and 1MB L2 cache										<b>Preloaded operating system<sup>20</sup></b> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 32			
Memory	<b>2GB</b> or <b>3GB</b> std / 4GB max <sup>7</sup> / PC2-5300 667MHz <b>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 socket; one socket available										<b>Preloaded applications<sup>14</sup></b> (only some listed)			
Optical drive SATA disk	None (use optional USB Portable DVD Burner 43N3264) <b>250GB<sup>8</sup></b> (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Password Manager</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Toolbox</li> <li>• Adobe® Reader®</li> <li>• Adobe Flash® Player</li> <li>• Skype™ for Windows</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• Microsoft Research AutoCollage Touch</li> </ul>			
Widescreen display	<b>13.3"</b> (338mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 200 nits, 16:9 aspect ratio, 400:1 contrast ratio													
Camera	Camera on top of screen, 0.3-megapixel, low light sensitive													
Integrated graphics	<b>ATI™ Radeon™ HD 3200 graphics</b> , in M780G, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2456x1536@60Hz</i>													
Keyboard	6-row, spill-resistant, multimedia Fn keys										Supports ThinkVantage® technologies			
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup>													
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch										65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378			
ThinkLight™	None													
Dimensions <sup>3</sup>	<b>13.3W"</b> (WxDxH): 12.7" x 9.0" x 1.0"; 322 x 228mm x 25.4mm (excluding battery bump)										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968			
Weight <sup>2</sup>	<b>4-cell:</b> starting at 3.61 lb (1.64kg); <b>6-cell:</b> starting at 3.83 lb (1.74kg)													
Case color	Matte black (top) or glossy black (top), trimmed with a thin silver band (side); black bottom										ThinkPlus 2-year LOR 9x5 NBD 45K5969			
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic										ThinkPlus 3-year LOR 9x5 NBD 45K5970			
Battery - type <sup>37</sup>	Lithium Ion <b>4-cell</b> or <b>6-cell</b>										ThinkPlus 4-year LOR 9x5 NBD 45K5973			
Battery - life <sup>10</sup>	<b>L325 models with 4-cell:</b> up to 3.3 hr; <b>6-cell:</b> up to 5.0 hr										ThinkPlus 2-year P&L P/U Depot 45K5971			
Chipset	<b>AMD M780G Chipset</b> , SB710 south bridge										ThinkPlus 3-year P&L P/U Depot 45K5972			
ExpressCard	None										ThinkPlus 4-year P&L P/U Depot 45K5974			
Smart Card Read	None										Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>			
Multicard Reader	5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, XD)													
Ports	Three USB 2.0 (one powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)													
PCIe Mini Card	Two PCI Express Mini Card slots													
11b/g/n	11b/g/n wireless <sup>4</sup> , ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® RTL8191SE													
WWAN upg	None													
Modem	None													
Bluetooth™	None													
Ethernet	Realtek RTL8111DL Gigabit Network Connection													
Audio support	High Definition (HD) Audio, Conexant® CX20582 codec / stereo speakers, 1 watt x 2 / mono microphone, combo audio/mic jack													
Security	Power-on password, hard disk password, supervisor password, security keyhole													
Security chip	None													
Fingerprint reader	None													
Limited warranty <sup>12</sup> <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available														

See footnotes for important warranty information  
US models announced January 5, 2010  
US models withdrawn effective February 2011

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(PAR1-2) February 2011

**Memory**

0196 with Intel processors:

1GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3706	ann	06/23/09
1GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4385	ann	06/23/09
2GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3707	ann	06/23/09
2GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4386	ann	06/23/09
1GB PC3-10600 DDR3 L-H SODIMM	55Y3709	ann	03/02/10
1GB PC3-10600 DDR3 L-H SODIMM (25Pack)	55Y4415	ann	03/02/10
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	ann	03/02/10
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	55Y4416	ann	03/02/10

0197 with AMD processors:

1GB PC2-5300 DDR2 SODIMM	40Y7734	ann	01/05/06
1GB PC2-5300 DDR2 SODIMM (25-Pack)	51J0502	ann	03/17/09
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann	11/28/06
2GB PC2-5300 DDR2 SODIMM (25-Pack)	51J0548	ann	03/17/09

**Storage and removable storage**

USB 2.0 Portable 320GB Hard Disk	45K1689	ann	03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann	05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann	11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive <sup>53</sup>	57Y4400	ann	01/07/10
USB 2.0 Portable DVD Burner	43N3264	ann	01/05/10

<sup>53</sup> USB-only attach.

**ThinkPad Expansion**

Lenovo® Essential Notebook Stand	45J9292	ann	05/12/09
USB Port Replicator with Digital Video	45K1610	ann	07/28/09

**Keyboard**

TrackPoint Cap Collection	73P2698	ann	12/16/03
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Lenovo Mini Wireless Keyboard N5901 <sup>52</sup> (blk)	57Y6336		
UltraSlim Wireless Keyboard and Mouse <sup>52</sup>	57Y4700	ann	09/15/09

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

ThinkPad USB Keyboard with TrackPoint	55Y9003	ann	08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann	03/24/09

**Mouse**

Lenovo Optical Mouse (USB)	06P4069	ann	05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann	01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann	12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann	08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann	06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann	01/22/08
Lenovo Wireless Laser Mouse - Black <sup>52</sup>	45K1696	ann	11/25/08
Lenovo Wireless Laser Mouse - Red/Black <sup>52</sup>	51J0198	ann	11/25/08
Lenovo Optical Mouse A6010 (black)	57Y6255		
Lenovo Mini Optical Mouse M20B	55Y2091		
Lenovo Wireless Mouse N30B (black)	55Y9360		

**Security**

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

**Multimedia**

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

**Modem**

USB 2.0 Lenovo Modem	43R1814	ann	02/26/08
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**Batteries<sup>37</sup>**

ThinkPad Battery 73 (4-cell)	57Y4564	ann	01/05/10
ThinkPad Battery 73+ (6-cell)	57Y4565	ann	01/05/10
ThinkPad External Battery Charger <sup>44</sup>	40Y7625	ann	09/20/05

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

More information at [www.lenovo.com/alldaycomputing](http://www.lenovo.com/alldaycomputing)

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

ThinkPad 90W AC Adapter	40Y7659	ann	09/20/05
Lenovo Power Hub	57Y4600	ann	09/07/10
90W UltraSlim AC/DC Combo Adapter	41R4493	ann	09/22/09

More info at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

<i>Charging tips for 90W UltraSlim AC/DC Combo Adapter 41R4493</i>			
•iPod and iPhone Charge Tip (L10a)	41R4481	ann	12/18/07
•Generic Micro USB charge tip (L18)	41R4490	ann	01/06/09

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

**Carrying Cases**

ThinkPad 15W Case Sleeve	51J0477	ann	08/18/09
Lenovo Business Messenger Case	51J0475	ann	08/18/09
Lenovo Messenger Max	41U5253	ann	05/01/07
Lenovo Performance Backpack	41U5254	ann	05/01/07
ThinkPad Business Topload Case	43R2476	ann	05/13/08
ThinkPad Business Backpack	43R2482	ann	05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann	05/13/08
ThinkPad Executive Leather Case	43R2480	ann	05/13/08

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

**Monitors**

Lenovo L2230x Wide 21.5" Monitor	5453HB1	ann	06/10/10
ThinkVision® L1711p 17" Monitor	5047HB2	ann	10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann	11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann	10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann	10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann	10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann	10/20/09
ThinkVision L2321x Wide 23" Monitor	4014HB6	ann	06/10/10
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann	09/17/08

**Monitor Accessories<sup>46</sup>**

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann	05/12/09
ThinkVision USB Soundbar	40Y7616	ann	08/23/05
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
Lenovo Security Cable Lock	57Y4303	ann	08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann	09/22/09

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on ThinkPad accessories, please visit:

- [www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)
- [www.lenovo.com/support/notebookaccessories](http://www.lenovo.com/support/notebookaccessories)
- [www.lenovo.com/support/security](http://www.lenovo.com/support/security)

Other accessories at [www.lenovo.com/accessories](http://www.lenovo.com/accessories)  
 Accessories Guide pdf at [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)



Lenovo® ThinkPad Edge 14"



Lenovo ThinkPad Edge 14"  
(Glossy black model)



Lenovo ThinkPad Edge 14"



ThinkPad In-Ear Headphones with mic  
57Y4488



Lenovo ThinkPad Edge 14"

# ThinkPad® Edge 14" 0578 (Intel) - TS (XP with Win 7 COA) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Battery cells	Preload	Avail date
0578-HSU	i3-370M	2.40	4GB	14.0" HD	320G 7200	Intel 1000	None	None	Glossy black	Finger	Blue	6	XP Pro	Jul 10
0578-HYU	i3-370M	2.40	2GB	14.0" HD	250G 5400	Intel 1000	None	None	Matte black			6	XP Pro	Jul 10

• These small and medium business (SMB) models are part of the US TopSeller™ Program

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>Intel® Core™ i3 processor i3-370M with dual-core,</b> DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache										<b>Preloaded operating system<sup>20</sup></b> - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32			
Memory	<b>2GB</b> or <b>4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										<b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows			
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB<sup>8</sup></b> (5400 rpm) or <b>320GB</b> (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™													
Widescreen display Camera	<b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus													
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)</i>													
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch										Supports ThinkVantage® technologies			
ThinkLight™	None													
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<b>14.0W"</b> (WxDxH): 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm <i>4-cell:</i> from 4.72 lb (2.14kg); <i>6-cell:</i> from 4.9 lb (2.22kg); <i>9-cell:</i> from 5.29 lb (2.40kg) Matte black (top) or glossy black (top), trimmed with a thin silver band (side); black bottom										65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378			
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>6-cell</b> <i>4-cell:</i> up to 2.9 hr; <i>6-cell:</i> up to 4.5 hr													
Chipset ExpressCard/34 Multicard Reader Ports	<b>Mobile Intel HM55 Express Chipset</b> One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974			
PCIe Mini Card Intel 1000 WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 None None <i>Some:</i> Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack													
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor													
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available										<b>lenovo.com/thinkplus/warranty</b>			

See footnotes for important warranty information  
US models announced July 6, 2010  
US models withdrawn effective October 2010

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(BER1-4) October 2010

# ThinkPad® Edge 14" 0578 (Intel) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
0578-23U	i3-350M	2.26	2+1GB	14.0" HD	320G 7200	Intel 6200 <sup>28</sup>			Matte black			6	Pro 64	Mar 10
0578-25U	i3-330M	2.13	2GBx2	14.0" HD	250G 5400				Matte black			4	Home P 64	Mar 10
0578-27U	i3-330M	2.13	2GBx1	14.0" HD	250G 5400	Intel 1000			Glossy black			6	Pro 32	Mar 10
0578-29U	i3-330M	2.13	2GBx1	14.0" HD	250G 5400	Intel 1000			Glossy black			6	Home P 64	Mar 10
0578-2AU	i3-330M	2.13	2GBx2	14.0" HD	250G 5400	Intel 1000	Gobi 2000	AT&T <sup>23</sup>	Glossy black		Blue	6	Pro 64	Mar 10
0578-2BU	i3-330M	2.13	2GBx2	14.0" HD	320G 7200	Intel 1000	Gobi 2000	Verizon <sup>16</sup>	Glossy black		Blue	6	Pro 64	Mar 10
0578-65U	i3-330M	2.13	2GBx2	14.0" HD	320G 7200	Intel 1000			Glossy black	Finger	Blue	6	Pro 64	Mar 10
0578-66U	i3-330M	2.13	2+1GB	14.0" HD	320G 7200	Intel 1000			Glossy red		Blue	6	Home P 64	Mar 10
0578-28U	Cel P4500	1.86	2GBx1	14.0" HD	250G 5400	Intel 1000			Glossy black			6	Home P 64	Apr 10
0578-64U	Cel P4500	1.86	2GBx1	14.0" HD	250G 5400	Intel 1000			Glossy black			6	Pro 32	Apr 10
0578-7ZU	Cel P4500	1.86	2GBx1	14.0" HD	250G 5400	Intel 1000			Matte black			6	Home P 64	Apr 10
0578-82U	i3-330M	2.13	2GBx1	14.0" HD	250G 5400	Intel 1000			Matte black			6	Pro 32	Apr 10
0578-83U	i3-330M	2.13	2+1GB	14.0" HD	250G 5400	Intel 1000			Glossy red		Blue	6	Pro 32	Apr 10
0578-84U	i3-330M	2.13	2+1GB	14.0" HD	250G 5400	Intel 1000	Gobi 2000	AT&T	Glossy black		Blue	6	Pro 32	Apr 10
0578-85U	i3-330M	2.13	2GBx1	14.0" HD	250G 5400	Intel 1000			Matte black			6	Home P 64	Apr 10
0578-86U	i3-330M	2.13	2GBx2	14.0" HD	320G 7200	Intel 1000			Matte black		Blue	6	Pro 64	Apr 10
0578-C5U	i3-350M	2.26	2GBx1	14.0" HD	320G 7200	Intel 1000			Matte black		Blue	6	Pro 64	Apr 10
0578-C6U	i3-350M	2.26	2GBx2	14.0" HD	500G 7200	Intel 1000			Glossy black		Blue	6	Pro 64	Apr 10

• These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>Intel® Celeron® Processor P4500</b> with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), and 2MB cache <b>Intel Core™ i3 processor i3-330M or i3-350M</b> with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache	<b>Preloaded operating system<sup>20</sup></b> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 32 - Some: Genuine Windows 7 Professional 64
Memory	<b>2GB, 3GB, or 4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB<sup>8</sup></b> (5400 rpm), <b>320GB</b> (7200 rpm), or <b>500GB</b> (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™	
Widescreen display Camera	<b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)</i>	
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<b>14.0W"</b> (WxDxH): 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm <i>4-cell</i> : from 4.72 lb (2.14kg); <i>6-cell</i> : from 4.9 lb (2.22kg); <i>9-cell</i> : from 5.29 lb (2.40kg) Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom	Supports ThinkVantage® technologies
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>4-cell</b> or <b>6-cell</b> <i>4-cell</i> : up to 2.9 hr; <i>6-cell</i> : up to 4.5 hr	65-watt AC adapter EPEAT™ Gold rating (except Celeron models) ENERGY STAR® 5.0-compliant (except Celeron models) RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Chipset ExpressCard/34 Multicard Reader Ports	<b>Mobile Intel HM55 Express Chipset</b> One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
PCIe Mini Card 11b/g/n Intel 1000 Intel 6200 <sup>28</sup> Gobi™ 2000 Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Two PCI Express Mini Card slots <i>Some</i> : 11b/g/n wireless <sup>4</sup> , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some</i> : 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some</i> : 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6200, 2x2 <i>Some</i> : Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider <i>Some</i> : AT&T® or Verizon®, contract required with service provider None <i>Some</i> : Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole <i>Some</i> : UPEK Fingerprint reader on palm rest, swipe sensor	ThinkPlus™, <sup>22</sup> 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information  
US models announced March 23, April 6, or April 13, 2010  
US models withdrawn effective August 2010 or June 2011

# ThinkPad® Edge 14" 0578 (Intel) - TopS (Win 7) - May 2010 - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Max turbo (GHz)	Memory	Wide-screen display	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Battery cells	Preload	Avail date
0578-9KU	i3-350M	2.26		4GB	14.0" HD	500G 5400	Intel 1000			Matte black			6	Home P 64	May 10
0578-DGU	i3-350M	2.26		2GB	14.0" HD	320G 7200	Intel 1000			Glossy red			6	Pro 64	May 10
0578-DHU	i3-350M	2.26		4GB	14.0" HD	500G 5400	Intel 1000			Glossy red			6	Pro 64	May 10
0578-F5U	i3-370M	2.40		2GB	14.0" HD	250G 5400	Intel 1000			Matte black			6	Pro 64	Jul 10
0578-F6U	i3-370M	2.40		4GB	14.0" HD	320G 7200	Intel 1000			Matte black			6	Pro 64	Jul 10
0578-F7U	i3-370M	2.40		4GB	14.0" HD	320G 7200	Intel 1000			Matte black	Fing	Blue	6	Pro 64	Jul 10
0578-F8U	i3-370M	2.40		4GB	14.0" HD	320G 7200	Intel 1000	Gobi 2000	AT&T <sup>23</sup>	Matte black	Fing	Blue	6	Pro 64	Jul 10
0578-F9U	i3-370M	2.40		4GB	14.0" HD	320G 7200	Intel 1000			Glossy red	Fing	Blue	6	Pro 64	Jul 10
0578-HTU	i3-350M	2.26		4GB	14.0" HD	250G 5400	Intel 1000			Matte black			4	Home P 64	Jul 10
0578-HUU	i3-370M	2.40		4GB	14.0" HD	250G 5400	Intel 1000			Matte black			4	Home P 64	Jul 10
0578-HVU	i3-350M	2.26		4GB	14.0" HD	320G 5400	Intel 1000			Glossy black			4	Home P 64	Jul 10
0578-HWU	i3-370M	2.40		4GB	14.0" HD	320G 5400	Intel 1000			Glossy black			4	Home P 64	Jul 10
0578-HXU	i5-450M	2.40	2.66	4GB	14.0" HD	500G 5400	Intel 1000			Glossy black	Fing	Blue	6	Pro 64	Jul 10
0578-HZU	i3-350M	2.26		4GB	14.0" HD	500G 5400	Intel 1000			Glossy black			6	Pro 64	Jul 10

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles <b>Intel® Core™ i3 processor i3-350M</b> or <b>i3-370M</b> with <b>dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or <b>Intel Core i5 processor i5-450M</b> with <b>dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache										<b>Preloaded operating system</b> <sup>20</sup> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 <b>Preloaded applications</b> <sup>14</sup> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch				
Memory	<b>2GB</b> or <b>4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available														
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB</b> <sup>8</sup> (5400 rpm), <b>320GB</b> (5400 or 7200 rpm), or <b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™														
Widescreen display Camera	<b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus														
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution:</i> 2048x1536@75Hz; 1920x1080 (HDMI port)														
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch														
ThinkLight™	None														
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<b>14.0W"</b> (WxDxH): 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm <i>4-cell:</i> from 4.72 lb (2.14kg); <i>6-cell:</i> from 4.9 lb (2.22kg); <i>9-cell:</i> from 5.29 lb (2.40kg) Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom										Supports ThinkVantage® technologies  65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378				
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>4-cell</b> or <b>6-cell</b> <i>4-cell:</i> up to 2.9 hr; <i>6-cell:</i> up to 4.5 hr														
Chipset ExpressCard/34 Multicard Reader Ports	<b>Mobile Intel HM55 Express Chipset</b> One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)														
PCIe Mini Card Intel 1000 Gobi™ 2000	Two PCI Express Mini Card slots 11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>				
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	<i>Some:</i> AT&T®, contract required with service provider None <i>Some:</i> Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack														
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor														
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available														

See footnotes for important warranty information  
US models announced May 4 or July 6, 2010  
US models withdrawn effective October 2010 or June 2011

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Type-model	Processor	GHz	Max turbo (GHz)	Memory	Wide-screen display	Screen type	Disk SATA GB <sup>9</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Preload	Avail date
0578-N6U	i3-390M	2.66		4GB	14.0" HD	Glossy	320G 7200	Intel 1000			Matte black	Fing	Blue	Pro 64	Jan 11
0578-N8U	i3-390M	2.66		2GB	14.0" HD	Glossy	250G 5400	Intel 1000			Matte black			Pro 64	Jan 11
0578-NJU	i5-480M	2.66	2.93	4GB	14.0" HD	Glossy	320G 7200	Intel 1000			Matte black	Fing	Blue	Pro 64	Jan 11
0578-P4U	i3-390M	2.66		4GB	14.0" HD	Glossy	320G 7200	Intel 1000	Gobi 2000	AT&T <sup>23</sup>	Glossy black	Fing	Blue	Pro 64	Jan 11
0578-Q2U	i3-380M	2.53		2GB	14.0" HD		250G 5400	11b/g/n			Matte black			Pro 64	Jan 11
0578-QLU	i3-380M	2.53		2GB	14.0" HD		250G 5400	11b/g/n			Matte black			Pro 64	Jan 11

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles <b>Intel® Core™ i3 processor i3-380M or i3-390M with dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or <b>Intel Core i5 processor i5-480M with dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache										<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Professional 64  <b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch				
Memory	<b>2GB or 4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available														
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB<sup>8</sup></b> (5400 rpm) or <b>320GB</b> (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™														
Widescreen display	<i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus														
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution:</i> 2048x1536@75Hz; 1920x1080 (HDMI port)														
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch										Supports ThinkVantage® technologies  65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974  Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>				
ThinkLight™	None														
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<i>14.0W" (WxDxH):</i> 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm <i>4-cell:</i> from 4.72 lb (2.14kg); <i>6-cell:</i> from 4.9 lb (2.22kg); <i>9-cell:</i> from 5.29 lb (2.40kg) Matte black (top) or glossy black (top), trimmed with a thin silver band (side); black bottom														
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic														
Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Lithium Ion <b>6-cell</b> <i>4-cell:</i> up to 2.9 hr; <i>6-cell:</i> up to 4.5 hr														
Chipset	<b>Mobile Intel HM55 Express Chipset</b>														
ExpressCard/34	One ExpressCard/34														
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)														
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)														
PCIe Mini Card 11b/g/n Intel 1000 Gobi™ 2000	Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless <sup>4</sup> , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider														
Carrier Modem	<i>Some:</i> AT&T®, contract required with service provider None														
Bluetooth™	<i>Some:</i> Bluetooth 2.1 wireless														
Ethernet	Realtek® RTL8111DL Gigabit Network Connection														
Intel AMT	None														
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	None														
Fingerprint reader	<i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor														
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available														

See footnotes for important warranty information  
US models announced January 11, 2011  
US models withdrawn effective February or June 2011

# ThinkPad® Edge 14" 0579 (Intel) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

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

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

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i></p> <p><b>Intel® Pentium® processor P6200 with dual-core,</b> DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), 3MB cache or</p> <p><b>Intel® Core™ i3 processor i3-370M or i3-380M with dual-core,</b> DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or</p> <p><b>Intel Core i5 processor i5-540M with dual-core,</b> DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost (3.06GHz), Hyper-Threading technology; 3MB cache</p>										<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Some: Genuine Windows® 7 Home Premium 64</li> <li>- Some: Genuine Windows 7 Professional 64</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Password Manager</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Toolbox</li> <li>• Norton™ Internet Security 2011 (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Adobe Flash® Player</li> <li>• Skype™ for Windows</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> </ul>			
Memory	<p>8GB max<sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b>, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;</p> <p><i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available</p>													
SATA DVD±RW SATA disk	<p>DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™</p>													
Widescreen display Camera	<p><b>14.0"</b> (355mm) <b>HD (1366x768) color</b>, anti-glare, <b>LED backlight</b>, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 0.3 or 2.0-megapixel, fixed focus</p>													
Integrated graphics	<p><b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)</i></p>													
Keyboard TrackPoint® Touch pad ThinkLight™	<p>6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar<sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None</p>													
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	<p><b>14.0W"</b> (WxDxH): 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm <i>4-cell:</i> from 4.72 lb (2.14kg); <i>6-cell:</i> from 4.9 lb (2.22kg); <i>9-cell:</i> from 5.29 lb (2.40kg)</p> <p>Matte black or Black textured (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>6-cell</b> <i>4-cell (32Whr):</i> up to 2.9 hr; <i>6-cell (48Whr):</i> up to 4.5 hr</p>										<p>Supports ThinkVantage® technologies</p>			
Chipset ExpressCard/34 Multicard Reader Ports	<p><b>Mobile Intel HM55 Express Chipset</b> One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</p>										<p>65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service<sup>17</sup> 24 hour x 7 day<sup>18</sup> toll-free support during the warranty period<sup>12</sup></p>			
PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	<p>Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None None None Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack</p>										<p>1-year Onsite Repair 9x5 NBD 45K5968 2-year Onsite Repair 9x5 NBD 45K5969 3-year Onsite Repair 9x5 NBD 45K5970 4-year Onsite Repair 9x5 NBD 45K5973 2-year Depot Repair 45K5971 3-year Depot Repair 45K5972 4-year Depot Repair 45K5974 Post-warranty annual maintenance agreements at <a href="http://www.lenovo.com/services_warranty/us/en/index.html">http://www.lenovo.com/services_warranty/us/en/index.html</a></p>			
Security Security chip Fingerprint reader	<p>Power-on password, hard disk password, supervisor password, security keyhole None None</p>													
<p>Limited warranty<sup>12</sup> <b>1-year</b> - depot repair service / service upgrades<sup>22</sup> available</p>														

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

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(BER1-7) February 2013



# ThinkPad® Edge 14" 0199 (AMD) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Camera	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	Top color	Finger print reader	Blue-tooth	Battery cells	Preload	Avail date
0199-22U	P820	1.80	4GB	14.0" HD	Glossy	2.0M	320G 7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jun 10
0199-23U	P520	2.30	4GB	14.0" HD	Glossy	0.3M	320G 5400	11b/g/n	Glossy black			6	Home P 64	Jun 10
0199-24U	P320	2.10	2GB	14.0" HD			250G 5400	11b/g/n	Matte black			4	Home P 64	Jun 10
0199-27U	P320	2.10	2GB	14.0" HD		0.3M	250G 5400	11b/g/n	Matte black			6	Pro 64	Jul 10
0199-28U	P320	2.10	4GB	14.0" HD		2.0M	320G 7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0199-29U	P520	2.30	2GB	14.0" HD		0.3M	250G 5400	11b/g/n	Matte black			6	Pro 64	Jul 10
0199-2AU	P520	2.30	4GB	14.0" HD		2.0M	320G 7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0199-2BU	P820	1.80	2GB	14.0" HD		0.3M	250G 5400	11b/g/n	Matte black			6	Pro 64	Jul 10
0199-2CU	P820	1.80	4GB	14.0" HD		2.0M	320G 7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0199-2DU	P820	1.80	4GB	14.0" HD		2.0M	500G 7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0199-2EU	P820	1.80	4GB	14.0" HD	Glossy	2.0M	500G 7200	11b/g/n	Glossy black	Finger	Blue	6	Pro 64	Jul 10
0199-2FU	P820	1.80	4GB	14.0" HD	Glossy	2.0M	500G 7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jul 10
0199-2GU	P520	2.30	4GB	14.0" HD	Glossy	2.0M	320G 7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jul 10
0199-2HU	P520	2.30	2GB	14.0" HD		0.3M	320G 7200	11b/g/n	Matte black			6	Home P 64	Jul 10

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

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>AMD® Athlon™ II Dual-Core Mobile Processor P320</b> with dual-core, virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache or <b>AMD Turion™ II Dual-Core Mobile Processor P520</b> with dual-core, virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache or <b>AMD Phenom™ II Triple-Core Mobile Processor P820</b> with triple-core, virtualization technology, integrated DDR3 memory controller, and 1.5MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64  <b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch	
Memory	<b>2GB</b> or <b>4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available		
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB<sup>8</sup></b> (5400 rpm), <b>320GB</b> (5400 or 7200 rpm), or <b>500GB</b> (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™		
Widescreen display	<i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio		
Camera	<i>Some:</i> camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus		
Integrated graphics	<b>ATI™ Radeon™ HD 4250 graphics</b> , in RS880M, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2456x1536@60Hz</i>		
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch		Supports ThinkVantage® technologies
ThinkLight™	None		65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<i>14.0W" (WxDxH):</i> 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm <i>4-cell:</i> from 4.78 lb (2.17kg); <i>6-cell:</i> from 4.96 lb (2.25kg); <i>9-cell:</i> from 5.36 lb (2.43kg) Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom		
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>4-cell</b> or <b>6-cell</b> <i>4-cell:</i> up to 2.6 hr; <i>6-cell:</i> up to 4 hr; <i>9-cell:</i> up to 6 hr		
Chipset ExpressCard/34 Multicard Reader Ports	<b>AMD RS880M Chipset</b> , SB820M south bridge One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	ThinkPlus™, 22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974	
PCIe Mini Card 11b/g/n Modem Bluetooth™ Ethernet Audio support	One PCI Express Half Mini Card slot 11b/g/n wireless <sup>4</sup> , ThinkPad 11b/g/n, PCIe Half Mini Card None <i>Some:</i> Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack		
Security Security chip Finger print reader	Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>	
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available		

See footnotes for important warranty information  
US models announced June 22 or July 6, 2010  
US models withdrawn effective December 2010

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(BER1-3) December 2010

# ThinkPad® Edge 14" 0199 (AMD) - TopSeller (Win 7) - Oct 2010 - withdrawn Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Camera	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	Top color	Finger print reader	Blue-tooth	Battery cells	Preload	Avail date
0199-4GU	P340	2.20	2GB	14.0" HD		0.3M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
0199-4HU	P340	2.20	2GB	14.0" HD		0.3M	320G 7200	11b/g/n	Glossy red	None	None	6	Pro 64	Sep 10
0199-4JU	P540	2.40	2GB	14.0" HD		0.3M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
0199-6PU	P560	2.50	2GB	14.0" HD	Glossy	0.3M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11
0199-6QU	P360	2.30	2GB	14.0" HD	Glossy	0.3M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles <b>AMD® Athlon™ II Dual-Core Mobile Processor P340 or P360 with dual-core,</b> virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache or <b>AMD Turion™ II Dual-Core Mobile Processor P540 or P560 with dual-core,</b> virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache										<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Professional 64			
Memory	<b>2GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										<b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch			
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>320GB<sup>8</sup></b> (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™													
Widescreen display	<i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio													
Camera	Camera on top of screen, 0.3-megapixel, fixed focus													
Integrated graphics	<b>ATI™ Radeon™ HD 4250 graphics</b> , in RS880M, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2456x1536@60Hz</i>													
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch										Supports ThinkVantage® technologies			
ThinkLight™	None										65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant			
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	<i>14.0W" (WxDxH):</i> 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm <i>4-cell:</i> from 4.78 lb (2.17kg); <i>6-cell:</i> from 4.96 lb (2.25kg); <i>9-cell:</i> from 5.36 lb (2.43kg) Matte black (top) or glossy red (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>6-cell</b> <i>4-cell:</i> up to 2.6 hr; <i>6-cell:</i> up to 4 hr; <i>9-cell:</i> up to 6 hr										International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378			
Chipset ExpressCard/34 Multicard Reader Ports	<b>AMD RS880M Chipset</b> , SB820M south bridge One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970			
PCIe Mini Card 11b/g/n Modem Bluetooth™ Ethernet Audio support	One PCI Express Half Mini Card slot 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None None Realtek® RTL8111DL Gigabit Network Connection High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack										ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None										ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at			
Limited warranty <sup>12</sup> <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available <b>lenovo.com/thinkplus/warranty</b>														

See footnotes for important warranty information  
US models announced September 28, 2010 or March 1, 2011  
US models withdrawn effective April or October 2011

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(BER1-5) October 2011

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

<b>Storage and removable storage</b>	
USB 2.0 Portable 320GB Hard Disk	45K1689 <i>ann 03/17/09</i>
USB 2.0 Portable 500GB Hard Disk	45K1690 <i>ann 05/26/09</i>
USB 2.0 Portable Secure 320GB Hard Disk	43R2019 <i>ann 11/18/08</i>
USB 3.0 Secure 500GB Hard Drive	0A65619 <i>ann 11/29/11</i>
USB 3.0 Secure 750GB Hard Drive	0A65616 <i>ann 11/29/11</i>
USB 3.0 Secure 1TB Hard Drive	0A65621 <i>ann 08/28/12</i>
Lenovo Slim USB Portable DVD Burner	0A33988 <i>ann 06/14/11</i>

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

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

<b>Mouse</b>	
ThinkPad Bluetooth Laser Mouse	0A36407 <i>ann 06/26/12</i>
Lenovo Optical Mouse (USB)	06P4069 <i>ann 05/21/03</i>
Lenovo Laser Mouse (USB)	41U3074 <i>ann 01/23/07</i>
ThinkPad USB Laser Mouse	57Y4635 <i>ann 12/15/09</i>
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405 <i>ann 08/27/02</i>
ThinkPad Travel Mouse (USB, Optical)	31P7410 <i>ann 06/04/02</i>
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188 <i>ann 12/20/11</i>
<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.	

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

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

<b>Modem</b>	
USB 2.0 Lenovo Modem	43R1814 <i>ann 02/26/08</i>

<b>Batteries<sup>37</sup></b>	
ThinkPad Battery 25 (4-cell)	51J0498 <i>ann 10/22/09</i>
ThinkPad Battery 25+ (6-cell)	51J0499 <i>ann 10/22/09</i>
ThinkPad Battery 25+++ (9-cell)	51J0500 <i>ann 10/22/09</i>
ThinkPad External Battery Charger <sup>44</sup>	40Y7625 <i>ann 09/20/05</i>
<sup>44</sup> Requires the <i>ThinkPad 90W AC Adapter</i> 40Y7659 or the adapter provided with the system.	

More information at [www.lenovo.com/alldaycomputing](http://www.lenovo.com/alldaycomputing)

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

More info at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

<i>Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493</i>	
• iPod and iPhone Charge Tip (L10a)	41R4481 <i>ann 12/18/07</i>
• Generic Micro USB charge tip (L18)	41R4490 <i>ann 01/06/09</i>

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

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

<i>Up to 15.6" widescreen models:</i>	
Lenovo Messenger Max	41U5253 <i>ann 05/01/07</i>
Lenovo Performance BackPack	41U5254 <i>ann 05/01/07</i>
ThinkPad Business Topload Case	43R2476 <i>ann 05/13/08</i>
ThinkPad Business Backpack	43R2482 <i>ann 05/13/08</i>
ThinkPad Deluxe Expander Case	43R2478 <i>ann 05/13/08</i>
ThinkPad Executive Leather Case	43R2480 <i>ann 05/13/08</i>
Lenovo Sport Backpack - Red	0A33896 <i>ann 02/28/12</i>
Lenovo Sport Slimcase - Red	0A33897 <i>ann 02/28/12</i>
Lenovo Sport Messenger - Red	0A33898 <i>ann 02/28/12</i>
Lenovo Sport Backpack - Blue	0B47298 <i>ann 08/28/12</i>
Lenovo Sport Slimcase - Blue	0B47300 <i>ann 08/28/12</i>
Lenovo Sport Messenger - Blue	0B47299 <i>ann 08/28/12</i>
Lenovo Sport Backpack - Grey	0B47301 <i>ann 08/28/12</i>
Lenovo Sport Slimcase - Grey	0B47303 <i>ann 08/28/12</i>
Lenovo Sport Messenger - Grey	0B47302 <i>ann 08/28/12</i>

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

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

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

<b>Monitor Accessories<sup>46</sup></b>	
Lenovo USB Soundbar	0A36190 <i>ann 05/01/12</i>
Lenovo HDMI to HDMI Monitor Cable	0B47070 <i>ann 05/22/12</i>
Lenovo HDMI to VGA Monitor Cable	0B47069 <i>ann 06/26/12</i>
Lenovo USB-to-DVI Monitor Adapter	45K5296 <i>ann 05/12/09</i>
Kensington MicroSaver Cable Lock	73P2582 <i>ann 12/29/03</i>
Kensington Twin Head Cable Lock	45K1620 <i>ann 09/30/08</i>
Lenovo Security Cable Lock	57Y4303 <i>ann 08/24/10</i>
Lenovo Easy Reach Monitor Stand	55Y9258 <i>ann 09/22/09</i>
<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.	

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad Edge E420



Lenovo ThinkPad Edge E420



Lenovo ThinkPad Edge E420



Lenovo ThinkPad Edge E420



Lenovo ThinkPad Edge E420



Lenovo ThinkPad Edge E420

# ThinkPad® Edge E420 1141 (Intel) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

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

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

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i></p> <p><b>Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), HT technology</p> <p><b>Intel Core i3-2350M processor (dual-core, 2.30GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), HT technology</p> <p><b>Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</p> <p><b>Intel Core i5-2520M processor (dual-core, 2.50GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology</p>										<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Some: Genuine Windows® 7 Home Premium 64</li> <li>- Some: Genuine Windows 7 Professional 64</li> </ul> <p><b>Ready to install applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Fingerprint Software (fingerprint models)</li> <li>• Password Manager (fingerprint models)</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Toolbox</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Norton™ Internet Security 2011 (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• Adobe Acrobat® X Standard (bundled with Microsoft Office)</li> <li>• Corel® WinDVD® (DVD±RW)</li> <li>• Corel Burn.Now™ Lenovo Edition (DVD±RW)</li> <li>• Corel DVD MovieFactory® Lenovo Edition (DVD±RW)</li> </ul>
Memory	8GB max <sup>7</sup> / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets										
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in										
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™										
mSATA™ SSD	None										
Widescreen display	<b>14.0"</b> (355mm) <b>HD (1366x768) color</b> , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio										
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator										
Graphics	<p><b>Intel HD Graphics 3000</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display;</p> <p><i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i></p>										
Keyboard	6-row, spill-resistant, multimedia Fn keys										
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar <sup>13</sup>										
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch										
ThinkLight™	None										
Dimensions <sup>3</sup>	<b>14.0W" (WxDxH):</b> 13.52" x 9.20" x 1.13-1.43"; 343.4 x 233.6mm x 28.7-36.4mm										
Weight <sup>2</sup>	<b>6-cell:</b> from 4.85 lb (2.2kg); <b>9-cell:</b> from 5.2 lb (2.36kg)										
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom										
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic										
Battery - type <sup>37</sup>	Lithium Ion 6-cell or 9-cell										
Battery - life <sup>10</sup>	<b>6-cell (48Whr):</b> up to 6.2 hr; <b>9-cell (94Whr):</b> up to 11.7 hr										
Chipset	<b>Mobile Intel HM65 Express Chipset</b>										
ExpressCard	One ExpressCard/34										
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)										
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										
PCIe Mini Card WLAN <sup>4</sup>	Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2										Supports ThinkVantage® technologies
WWAN	None										65-watt AC adapter
Modem	None										EPEAT™ Gold rating
Bluetooth™	<i>Some:</i> Bluetooth 3.0 wireless										ENERGY STAR® 5.0-compliant
Ethernet	Realtek® RTL8111E Gigabit Network Connection										RoHS-compliant
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack										International Warranty Service <sup>17</sup>
Security	Power-on password, hard disk password, supervisor password, security keyhole										24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>
Security chip	None										For compatible accessories, please go to O-E420 sheet;
Fingerprint reader	<i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor										For Lenovo <sup>22</sup> service upgrade options, please go to S-EDGE sheet
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available										

See footnotes for more detailed information

US model(s) announced January 17, 2012; previous model(s) on April 19, June

21 or October 4, 2011

US model(s) withdrawn effective July 2012

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(LW1-1) February 2013

# ThinkPad® Edge E425 1198 (AMD) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

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

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

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i>  <b>AMD Accelerated Processor E2-3000M</b> (dual-core, 1.80GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6380G Graphics, AMD Turbo Core technology (up to 2.40GHz), integrated DDR3 memory controller (up to 1333MHz)  <b>AMD Accelerated Processor A4-3300M</b> (dual-core, 1.90GHz, 2MB L2 cache), integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1333MHz)</p>							<p><b>Preloaded operating system<sup>20</sup></b>                      - Genuine Windows® 7 Professional 64</p> <p><b>Ready to install applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Fingerprint Software (fingerprint models)</li> <li>• Password Manager (fingerprint models)</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Toolbox</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Norton™ Internet Security 2011 (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• Adobe Acrobat® X Standard (bundled with Microsoft Office)</li> <li>• Corel® WinDVD® (DVD±RW)</li> <li>• Corel Burn.Now™ Lenovo Edition (DVD±RW)</li> <li>• Corel DVD MovieFactory® Lenovo Edition (DVD±RW)</li> </ul>			
Memory	8GB max <sup>7</sup> / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets										
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™										
Widescreen display Camera	<p><b>14.0"</b> (355mm) <b>HD (1366x768) color</b>, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio                      HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator</p>										
Graphics	Dynamic switching between discrete and integrated graphics (user selectable), <b>AMD Radeon HD Graphics</b> in processor, and <b>AMD Radeon HD 6470M Graphics</b> , PCI Express® x16, <b>1GB</b> memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 1920x1600 (VGA)@60Hz; 1920x1080p (HDMI)@60Hz</i>										
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch None										
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	<p><i>14.0W" (WxDxH): 13.52" x 9.20" x 1.13-1.43"; 343.4 x 233.6mm x 28.7-36.4mm</i>  <i>6-cell: from 4.85 lb (2.2kg); 9-cell: from 5.2 lb (2.36kg)</i>                      Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom                      Acrylonitrile-Butadiene-Styrene (ABS) plastic                      Lithium Ion 6-cell or 9-cell  <i>6-cell (48Whr): up to 4.2 hr; 9-cell (94Whr): up to 8.3 hr</i></p>										
Chipset ExpressCard Multicard Reader Ports	<p><b>AMD A60M FCH</b>                      One ExpressCard/34                      4-in-1 reader (MMC, SD, SDHC, SDXC)                      Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</p>							Supports ThinkVantage® technologies			
PCIe Mini Card WLAN <sup>4</sup> Modem Bluetooth™ Ethernet Audio support	One PCI Express Half Mini Card slot ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® chipset, 1x1 None None Realtek RTL8111E Gigabit Network Connection High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack							90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None							For compatible accessories, please go to O-E420 sheet; For Lenovo <sup>22</sup> service upgrade options, please go to S-EDGE sheet			
Limited warranty <sup>12</sup> <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available											

See footnotes for more detailed information  
 US model(s) announced September 6, 2011  
 US model(s) withdrawn effective July 2012

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 (LW11-1) February 2013

**Memory**

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

**Storage and removable storage**

USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann 08/28/12
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

**ThinkPad Expansion**

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

**Keyboard**

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

**Mouse**

ThinkPad Bluetooth Laser Mouse	0A36407	ann 06/26/12
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	ann 12/20/11
<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.		

**Security**

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

**Multimedia**

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

**Modem**

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
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**Batteries<sup>37</sup>**

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

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

More information at [www.lenovo.com/alldaycomputing](http://www.lenovo.com/alldaycomputing)

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

More info at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

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

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

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

**Carrying Cases**

*Up to 15.6" widescreen models:*

Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance Backpack	41U5254	ann 05/01/07
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Sport Backpack - Red	0A33896	ann 02/28/12
Lenovo Sport Slimcase - Red	0A33897	ann 02/28/12
Lenovo Sport Messenger - Red	0A33898	ann 02/28/12
Lenovo Sport Backpack - Blue	0B47298	ann 08/28/12
Lenovo Sport Slimcase - Blue	0B47300	ann 08/28/12
Lenovo Sport Messenger - Blue	0B47299	ann 08/28/12
Lenovo Sport Backpack - Grey	0B47301	ann 08/28/12
Lenovo Sport Slimcase - Grey	0B47303	ann 08/28/12
Lenovo Sport Messenger - Grey	0B47302	ann 08/28/12

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

**Monitors**

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

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

**Monitor Accessories<sup>46</sup>**

Lenovo USB Soundbar	0A36190	ann 05/01/12
Lenovo HDMI to HDMI Monitor Cable	0B47070	ann 05/22/12
Lenovo HDMI to VGA Monitor Cable	0B47069	ann 06/26/12
Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad Edge E420s



Lenovo ThinkPad Edge E420s



ThinkVision® LT1421 with ThinkPad Edge E420s



Lenovo ThinkPad Edge E420s



Lenovo ThinkPad Edge E420s



# ThinkPad® Edge E420s 4401 (TopSeller) - withdrawn

Personal Systems Reference (PSREF)

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

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

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

See footnotes for more detailed information  
 US model(s) announced January 17, 2012; previous model(s) on March 22,  
 October 4 or December 20, 2011  
 US model(s) withdrawn effective May 2012

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 (PCD1-1) February 2013

**Memory**

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

**Storage and removable storage**

USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann 08/28/12
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

**ThinkPad Expansion**

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

**Keyboard**

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

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

**Mouse**

ThinkPad Bluetooth Laser Mouse	0A36407	ann 06/26/12
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	ann 12/20/11

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

**Security**

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

**Multimedia**

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

**Modem**

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
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**Power adapters**

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

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

**Carrying Cases**

Up to 14" widescreen models:

ThinkPad 14W Case Sleeve	57Y4294	ann 03/16/10
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Up to 15.6" widescreen models:

Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance Backpack	41U5254	ann 05/01/07
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Sport Backpack - Red	0A33896	ann 02/28/12
Lenovo Sport Slimcase - Red	0A33897	ann 02/28/12
Lenovo Sport Messenger - Red	0A33898	ann 02/28/12
Lenovo Sport Backpack - Blue	0B47298	ann 08/28/12
Lenovo Sport Slimcase - Blue	0B47300	ann 08/28/12
Lenovo Sport Messenger - Blue	0B47299	ann 08/28/12
Lenovo Sport Backpack - Grey	0B47301	ann 08/28/12
Lenovo Sport Slimcase - Grey	0B47303	ann 08/28/12
Lenovo Sport Messenger - Grey	0B47302	ann 08/28/12

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

**Monitors**

ThinkVision® L1711p 17" (VGA, DVI-D)	5047HB2	ann 10/20/09
ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	ann 11/11/08
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) <sup>69</sup>	2448MB6	ann 09/13/11
ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	ann 10/20/09
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann 10/20/09
ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) <sup>69</sup>	2572MB6	ann 09/13/11
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) <sup>69</sup>	4420MB2	ann 09/13/11

<sup>69</sup> DisplayPort cable is not included.

ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	ann 08/16/11
Lenovo LS2421p Wide 23.6" (VGA, HDMI)	4015LS1	ann 08/02/11

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

**Monitor Accessories<sup>46</sup>**

Lenovo USB Soundbar	0A36190	ann 05/01/12
Lenovo HDMI to HDMI Monitor Cable	0B47070	ann 05/22/12
Lenovo HDMI to VGA Monitor Cable	0B47069	ann 06/26/12
Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:  
[www.lenovo.com/accessories](http://www.lenovo.com/accessories)  
 Purchase Lenovo accessories  
[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)  
 Product specifications on Lenovo Support  
[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)  
 Option Compatibility Matrix (OCM) and accessory brochures  
[www.lenovoquickpick.com](http://www.lenovoquickpick.com)  
 An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad Edge 15"



Lenovo ThinkPad Edge 15"  
(Glossy black model)



Lenovo ThinkPad Edge 15"



Lenovo ThinkPad Edge 15"  
(Glossy red model)



Lenovo ThinkPad Edge 15"

**ThinkPad® Edge 15" 0301 (Intel) - TS (XP with Win 7 License) - withdrawn** *Personal Systems Reference (PSREF)*

Type-model	Processor	GHz	Memory	Wide-screen display	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
0301-EKU	i3-370M	2.40	2GB	15.6" HD	250G 5400	Intel 1000	None	None	Matte black			6	XP Pro	Jul 10
0301-ELU	i3-370M	2.40	<i>4GB</i>	15.6" HD	320G 7200	Intel 1000	None	None	Glossy black	Finger	Blue	6	XP Pro	Jul 10

• *These small and medium business (SMB) models are part of the US TopSeller™ Program*

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>Intel® Core™ i3 processor i3-370M with dual-core,</b> DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache	<b>Preloaded operating system<sup>20</sup></b> - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32
Memory	<b>2GB</b> or <b>4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB<sup>8</sup></b> (5400 rpm) or <b>320GB</b> (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™	
Widescreen display	<b>15.6" (395mm) HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)</i>	
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch	Supports ThinkVantage® technologies
ThinkLight™	None	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<i>15.6W" (WxDxH):</i> 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm <i>4-cell:</i> from 5.32 lb (2.42kg); <i>6-cell:</i> from 5.50 lb (2.50kg); <i>9-cell:</i> from 5.89 lb (2.67kg) Matte black (top) or glossy black (top), trimmed with a thin silver band (side); black bottom	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>6-cell</b> <i>4-cell:</i> up to 2.9 hr; <i>6-cell:</i> up to 4.5 hr	
Chipset ExpressCard/34 Multicard Reader Ports	<b>Mobile Intel HM55 Express Chipset</b> One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974
PCIe Mini Card Intel 1000 WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 None None <i>Some:</i> Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information  
US models announced July 6, 2010  
US models withdrawn effective October 2010

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(LDN1-4) October 2010

# ThinkPad® Edge 15" 0301 (Intel) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Disk SATA GB <sup>3</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Battery cells	Preload	Avail date	
0301-23U	i3-350M	2.26	4GB	15.6" HD	Glossy	320G 7200	Intel 6200 <sup>28</sup>			Matte black		6	Pro 64	Mar 10	
0301-25U	i3-330M	2.13	4GB	15.6" HD	Glossy	250G 5400	11b/g/n			Matte black		4	Home P	Mar 10	
0301-26U	i3-330M	2.13	2GB	15.6" HD		250G 5400	Intel 1000			Glossy black		6	Pro 32	Mar 10	
0301-27U	i3-330M	2.13	2GB	15.6" HD		320G 7200	Intel 1000	Gobi 2000	AT&T <sup>23</sup>	Glossy black	Blue	6	Pro 32	Mar 10	
0301-29U	i3-330M	2.13	2GB	15.6" HD	Glossy	250G 5400	Intel 1000			Glossy black		6	Home P	Mar 10	
0301-2AU	i3-330M	2.13	4GB	15.6" HD		250G 5400	Intel 1000	Gobi 2000	AT&T	Glossy black	Blue	6	Pro 64	Mar 10	
0301-2BU	i3-330M	2.13	4GB	15.6" HD		250G 5400	Intel 1000	Gobi 2000	Verizon <sup>16</sup>	Glossy black	Blue	6	Pro 64	Mar 10	
0301-5PU	i3-330M	2.13	2GB	15.6" HD		320G 7200	Intel 1000	Gobi 2000	Verizon	Glossy black	Finger	6	Pro 32	Mar 10	
0301-5QU	i3-330M	2.13	2GB	15.6" HD		250G 5400	Intel 1000			Glossy red	Blue	6	Pro 32	Mar 10	
0301-5RU	i3-330M	2.13	3GB	15.6" HD		320G 7200	Intel 1000			Glossy red	Blue	6	Home P	Mar 10	
0301-5SU	i3-330M	2.13	4GB	15.6" HD		320G 7200	Intel 1000			Glossy black	Finger	Blue	6	Pro 64	Mar 10

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles <b>Intel® Core™ i3 processor i3-330M or i3-350M with dual-core,</b> DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache										<b>Preloaded operating system<sup>20</sup></b> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 32 - Some: Genuine Windows 7 Professional 64			
Memory	<b>2GB, 3GB, or 4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										<b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch			
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB<sup>8</sup></b> (5400 rpm) or <b>320GB</b> (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™										Supports ThinkVantage® technologies			
Widescreen display	<i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio													
Camera	Camera on top of screen, 2.0-megapixel, fixed focus										65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378			
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution:</i> 2048x1536@75Hz; 1920x1080 (HDMI port)													
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>			
ThinkLight™	None													
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<i>15.6W"</i> (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm <i>4-cell:</i> from 5.32 lb (2.42kg); <i>6-cell:</i> from 5.50 lb (2.50kg); <i>9-cell:</i> from 5.89 lb (2.67kg) Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>			
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>4-cell</b> or <b>6-cell</b> <i>4-cell:</i> up to 2.9 hr; <i>6-cell:</i> up to 4.5 hr													
Chipset ExpressCard/34 Multicard Reader Ports	<b>Mobile Intel HM55 Express Chipset</b> One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>			
PCIe Mini Card 11b/g/n Intel 1000 Intel 6200 <sup>28</sup> Gobi™ 2000	Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless <sup>4</sup> , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider													
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	<i>Some:</i> AT&T® or Verizon®, contract required with service provider None <i>Some:</i> Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor													
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available													

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

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Type-model	Processor	GHz	Max turbo (GHz)	Memory	Wide-screen display	Screen type	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger-print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
0301-28U	Cel P4500	1.86		2GBx1	15.6" HD	Glossy	250G 5400	Intel 1000			Glossy black			6 Home P 64	Apr 10	
0301-5NU	Cel P4500	1.86		2GBx1	15.6" HD	Glossy	250G 5400	Intel 1000			Matte black			6 Home P 64	Apr 10	
0301-8GU	i3-330M	2.13		2GBx1	15.6" HD		250G 5400	Intel 1000			Matte black			6 Pro 32	Apr 10	
0301-8HU	i3-330M	2.13		2GBx2	15.6" HD		320G 7200	WiMAX			Matte black	Fing	Blue	6 Pro 64	Apr 10	
0301-8JU	i3-330M	2.13		2GBx1	15.6" HD	Glossy	250G 5400	Intel 1000			Matte black			6 Home P 64	Apr 10	
0301-8KU	i3-330M	2.13		2GBx2	15.6" HD		320G 7200	Intel 1000			Matte black		Blue	6 Pro 64	Apr 10	
0301-9AU	i3-330M	2.13		2GBx1	15.6" HD		250G 5400	Intel 1000	Gobi	AT&T <sup>23</sup>	Glossy black			6 Pro 32	Apr 10	
0301-9CU	i3-350M	2.26		2GBx1	15.6" HD		320G 7200	Intel 1000			Matte black		Blue	6 Pro 64	Apr 10	
0301-9DU	i3-350M	2.26		2GBx2	15.6" HD		500G 7200	Intel 1000			Glossy black		Blue	6 Pro 64	Apr 10	
0301-89U	i5-430M	2.26	2.53	2GBx2	15.6" HD		500G 7200	Intel 1000			Glossy black	Fing	Blue	6 Pro 64	May 10	
0301-8AU	i3-350M	2.26		2GBx1	15.6" HD	Glossy	250G 5400	Intel 1000			Matte black			4 Home P 64	May 10	
0301-8BU	i3-350M	2.26		2GBx2	15.6" HD		500G 7200	Intel 1000			Glossy black	Fing		6 Pro 64	May 10	

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

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>Intel® Celeron® Processor P4500 with dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), and 2MB cache or <b>Intel Core™ i3 processor i3-330M or i3-350M with dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or <b>Intel Core i5 processor i5-430M with dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache	<b>Preloaded operating system<sup>20</sup></b> - <i>Some:</i> Genuine Windows® 7 Home Premium 64 - <i>Some:</i> Genuine Windows 7 Professional 32 - <i>Some:</i> Genuine Windows 7 Professional 64  <b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch
Memory	<b>2GB or 4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB<sup>8</sup></b> (5400 rpm), <b>320GB</b> (7200 rpm), or <b>500GB</b> (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™	
Widescreen display	<i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution:</i> 2048x1536@75Hz; 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch	
ThinkLight™	None	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<b>15.6W"</b> (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm <i>4-cell:</i> from 5.32 lb (2.42kg); <i>6-cell:</i> from 5.50 lb (2.50kg); <i>9-cell:</i> from 5.89 lb (2.67kg) Matte black (top) or glossy black (top), trimmed with a thin silver band (side); black bottom	
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>4-cell</b> or <b>6-cell</b> <i>4-cell:</i> up to 2.9 hr; <i>6-cell:</i> up to 4.5 hr	
Chipset ExpressCard/34 Multicard Reader Ports	<b>Mobile Intel HM55 Express Chipset</b> One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	<b>Supports ThinkVantage® technologies</b>
PCle Mini Card Intel 1000 WiMAX Gobi™ 2000 Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader Limited warranty <sup>12</sup>	Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> 11a/b/g/n and WiMAX wireless, PCIe Half Mini Card, Intel Centrino Advanced-N + WiMAX 6250, 2x2 AGN + 1x2 WiMAX <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider <i>Some:</i> AT&T®, contract required with service provider None <i>Some:</i> Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor	65-watt AC adapter EPEAT™ Gold rating (except Celeron models) ENERGY STAR® 5.0-compliant (except Celeron models) RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>

See footnotes for important warranty information  
 US models announced April 6, April 13, or May 4, 2010  
 US models withdrawn effective August 2010 or June 2011

Type-model	Processor	GHz	Max turbo (GHz)	Memory	Wide-screen display	Screen type	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
0301-DBU	i3-370M	2.40		2GB	15.6" HD		250G 5400	Intel 1000			Matte black			6	Pro 64	Jul 10
0301-DCU	i3-370M	2.40		<i>4GB</i>	15.6" HD		320G 7200	Intel 1000			Matte black	Fing	Blue	6	Pro 64	Jul 10
0301-DDU	i3-370M	2.40		<i>4GB</i>	15.6" HD		320G 7200	Intel 1000	Gobi 2000	AT&T <sup>23</sup>	Matte black	Fing	Blue	6	Pro 64	Jul 10
0301-DEU	i3-370M	2.40		<i>4GB</i>	15.6" HD		320G 7200	Intel 1000			Glossy red	Fing	Blue	6	Pro 64	Jul 10
0301-ECU	i3-370M	2.40		<i>4GB</i>	15.6" HD	Glossy	250G 5400	Intel 1000			Matte black			4	Home P	Jul 10
0301-EDU	i3-370M	2.40		<i>4GB</i>	15.6" HD		500G 7200	Intel 1000			Glossy black	Fing	Blue	6	Pro 64	Jul 10
0301-EEU	i3-350M	2.26		<i>4GB</i>	15.6" HD		500G 7200	Intel 1000			Glossy black	Fing	Blue	6	Pro 64	Jul 10
0301-EFU	i3-370M	2.40		2GB	15.6" HD		250G 5400	Intel 1000			Glossy black			6	Home P	Jul 10
0301-EGU	i3-370M	2.40		<i>3GB</i>	15.6" HD		320G 7200	Intel 1000			Glossy red		Blue	6	Home P	Jul 10
0301-EHU	i5-450M	2.40	2.66	<i>4GB</i>	15.6" HD		500G 5400	Intel 1000			Glossy black	Fing	Blue	6	Pro 64	Jul 10
0301-EJU	i5-450M	2.40	2.66	<i>4GB</i>	15.6" HD		500G 7200	Intel 1000			Glossy black	Fing	Blue	6	Pro 64	Jul 10
0301-EMU	i3-350M	2.26		2GB	15.6" HD		250G 5400	Intel 1000	Gobi 2000	AT&T	Glossy black			6	Pro 32	Jul 10

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- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>Intel® Core™ i3 processor i3-350M or i3-370M with dual-core,</b> DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or <b>Intel Core i5 processor i5-450M with dual-core,</b> DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache	<b>Preloaded operating system<sup>20</sup></b> - <i>Some:</i> Genuine Windows® 7 Home Premium 64 - <i>Some:</i> Genuine Windows 7 Professional 32 - <i>Some:</i> Genuine Windows 7 Professional 64
Memory	<b>2GB, 3GB, or 4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB<sup>8</sup></b> (5400 rpm), <b>320GB<sup>8</sup></b> (7200 rpm), or <b>500GB<sup>8</sup></b> (5400 or 7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™	
Widescreen display	<i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution:</i> 2048x1536@75Hz; 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch	
ThinkLight™	None	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<i>15.6W"</i> (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm <i>4-cell:</i> from 5.32 lb (2.42kg); <i>6-cell:</i> from 5.50 lb (2.50kg); <i>9-cell:</i> from 5.89 lb (2.67kg) Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom	Supports ThinkVantage® technologies
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>4-cell</b> or <b>6-cell</b> <i>4-cell:</i> up to 2.9 hr; <i>6-cell:</i> up to 4.5 hr	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Chipset ExpressCard/34 Multicard Reader Ports	<b>Mobile Intel HM55 Express Chipset</b> One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	ThinkPlus™. <sup>22</sup> 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974
PCIe Mini Card Intel 1000 Gobi™ 2000	Two PCI Express Mini Card slots 11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider	
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	<i>Some:</i> AT&T®, contract required with service provider None <i>Some:</i> Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information  
US models announced July 6, 2010  
US models withdrawn effective October 2010 or June 2011

Type-model	Processor	GHz	Max turbo (GHz)	Memory	Wide-screen display	Disk SATA GB <sup>3</sup> rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
0301-JDU	i5-480M	2.66	2.93	4GB	15.6" HD	320G 7200	Intel 1000	None	None	Matte black	Fing	Blue	6	Pro 64	Jan 11
0301-JAU	i3-390M	2.66		4GB	15.6" HD	320G 7200	Intel 1000	None	None	Matte black	Fing	Blue	6	Pro 64	Jan 11
0301-J9U	i3-390M	2.66		2GB	15.6" HD	250G 5400	Intel 1000	None	None	Matte black			6	Pro 64	Jan 11
0301-K3U	i3-390M	2.66		4GB	15.6" HD	500G 5400	Intel 1000	None	None	Matte black			6	Home P	Jan 11
0301-Q2U	i3-380M	2.53		2GB	15.6" HD	250G 5400	11b/g/n	None	None	Matte black			6	Pro 64	Jan 11

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles <b>Intel® Core™ i3 processor i3-380M or i3-390M</b> with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or <b>Intel Core i5 processor i5-480M</b> with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache										<b>Preloaded operating system</b> <sup>20</sup> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64				
Memory	<b>2GB</b> or <b>4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										<b>Preloaded applications</b> <sup>14</sup> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch				
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB</b> <sup>8</sup> (5400 rpm), <b>320GB</b> (7200 rpm), or <b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™														
Widescreen display	<b>15.6"</b> (395mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus														
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution:</i> 2048x1536@75Hz; 1920x1080 (HDMI port)														
Keyboard	6-row, spill-resistant, multimedia Fn keys														
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup>														
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch										Supports ThinkVantage® technologies				
ThinkLight™	None														
Dimensions <sup>3</sup>	<b>15.6W"</b> (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm										65-watt AC adapter				
Weight <sup>2</sup>	<i>4-cell:</i> from 5.32 lb (2.42kg); <i>6-cell:</i> from 5.50 lb (2.50kg); <i>9-cell:</i> from 5.89 lb (2.67kg)										EPEAT™ Gold rating				
Case color	Matte black (top), trimmed with a thin silver band (side); black bottom										ENERGY STAR® 5.0-compliant				
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic										RoHS-compliant				
Battery - type <sup>37</sup>	Lithium Ion <b>6-cell</b>										International Warranty Service <sup>17</sup>				
Battery - life <sup>10</sup>	<i>4-cell:</i> up to 2.9 hr; <i>6-cell:</i> up to 4.5 hr										24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378				
Chipset	<b>Mobile Intel HM55 Express Chipset</b>										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968				
ExpressCard/34	One ExpressCard/34										ThinkPlus 2-year LOR 9x5 NBD 45K5969				
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)										ThinkPlus 3-year LOR 9x5 NBD 45K5970				
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										ThinkPlus 4-year LOR 9x5 NBD 45K5973				
PCIe Mini Card	Two PCI Express Mini Card slots										ThinkPlus 2-year P&L P/U Depot 45K5971				
11b/g/n	<i>Some:</i> 11b/g/n wireless <sup>4</sup> , ThinkPad 11b/g/n, PCIe Half Mini Card										ThinkPlus 3-year P&L P/U Depot 45K5972				
Intel 1000	<i>Some:</i> 11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2										ThinkPlus 4-year P&L P/U Depot 45K5974				
WWAN upg	None										Post-warranty annual maintenance agreements at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a>				
Modem	None														
Bluetooth™	<i>Some:</i> Bluetooth 2.1 wireless														
Ethernet	Realtek® RTL8111DL Gigabit Network Connection														
Intel AMT	None														
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	None														
Fingerprint reader	<i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor														
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available														

See footnotes for important warranty information  
US models announced January 11, 2011  
US models withdrawn effective June 2011



# ThinkPad® Edge 15" 0302 (AMD) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Camera	Disk SATA GB <sup>3</sup> rpm	PCIe Mini Card 802.11	Top color	Finger print reader	Blue-tooth	Battery cells	Preload	Avail date
0302-22U	P820	1.80	4GB	15.6" HD	Glossy	2.0M	320G 7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jun 10
0302-23U	P520	2.30	4GB	15.6" HD	Glossy	0.3M	320G 5400	11b/g/n	Glossy black			6	Home P 64	Jun 10
0302-24U	P320	2.10	2GB	15.6" HD			250G 5400	11b/g/n	Matte black			4	Home P 64	Jun 10
0302-2BU	P320	2.10	2GB	15.6" HD		2.0M	250G 5400	11b/g/n	Matte black			6	Pro 64	Jul 10
0302-2CU	P320	2.10	4GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0302-2DU	P520	2.30	2GB	15.6" HD		2.0M	250G 5400	11b/g/n	Matte black			6	Pro 64	Jul 10
0302-2EU	P520	2.30	4GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0302-2FU	P820	1.80	2GB	15.6" HD		2.0M	250G 5400	11b/g/n	Matte black			6	Pro 64	Jul 10
0302-2GU	P820	1.80	4GB	15.6" HD		2.0M	500G 7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0302-2HU	P820	1.80	4GB	15.6" HD	Glossy	2.0M	500G 7200	11b/g/n	Glossy black	Finger	Blue	6	Pro 64	Jul 10
0302-2JU	P820	1.80	4GB	15.6" HD	Glossy	2.0M	500G 7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jul 10
0302-2KU	P520	2.30	4GB	15.6" HD	Glossy	2.0M	320G 7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jul 10
0302-2LU	P520	2.30	2GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black			6	Home P 64	Jul 10
0302-3HU	P820	1.80	4GB	15.6" HD		2.0M	320G 7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jul 10
0302-3JU	P520	2.30	4GB	15.6" HD	Glossy	0.3M	320G 5400	11b/g/n	Glossy black			6	Home P 64	Jul 10
0302-3KU	P520	2.30	2GB	15.6" HD		0.3M	320G 7200	11b/g/n	Glossy black			6	Home P 64	Jul 10
0302-3LU	P520	2.30	2GB	15.6" HD		0.3M	320G 7200	11b/g/n	Glossy red			6	Home P 64	Jul 10

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

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>AMD® Athlon™ II Dual-Core Mobile Processor P320</b> with dual-core, virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache or <b>AMD Turion™ II Dual-Core Mobile Processor P520</b> with dual-core, virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache or <b>AMD Phenom™ II Triple-Core Mobile Processor P820</b> with triple-core, virtualization technology, integrated DDR3 memory controller, and 1.5MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 <b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch
Memory	<b>2GB</b> or <b>4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB<sup>8</sup></b> (5400 rpm), <b>320GB</b> (5400 or 7200 rpm), or <b>500GB</b> (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™	
Widescreen display	<i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	<i>Some:</i> camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus	
Integrated graphics	<b>ATI™ Radeon™ HD 4250 graphics</b> , in RS880M, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution:</i> 2456x1536@60Hz	
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch	Supports ThinkVantage® technologies
ThinkLight™	None	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<b>15.6W"</b> (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm <i>4-cell:</i> from 5.40 lb (2.45kg); <i>6-cell:</i> from 5.58 lb (2.53kg); <i>9-cell:</i> from 5.95 lb (2.70kg) Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom	
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>4-cell</b> or <b>6-cell</b> <i>4-cell:</i> up to 2.6 hr; <i>6-cell:</i> up to 4 hr; <i>9-cell:</i> up to 6 hr	
Chipset ExpressCard/34 Multicard Reader Ports	<b>AMD RS880M Chipset</b> , SB820M south bridge One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974
PCIe Mini Card 11b/g/n Modem Bluetooth™ Ethernet Audio support	One PCI Express Half Mini Card slot 11b/g/n wireless <sup>4</sup> , ThinkPad 11b/g/n, PCIe Half Mini Card None <i>Some:</i> Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information  
US models announced June 22 or July 6, 2010  
US models withdrawn effective December 2010

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(LDN1-3) December 2010

# ThinkPad® Edge 15" 0302 (AMD) - TopSeller (Win 7) - Oct 2010 - withdrawn Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Camera	Disk SATA GB <sup>s</sup> rpm	PCIe Mini Card 802.11	Top color	Finger print reader	Blue-tooth	Battery cells	Preload	Avail date
0302-44U	P340	2.20	2GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
0302-45U	P540	2.40	2GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
0302-4LU	P840	1.90	4GB	15.6" HD	Glossy	0.3M	500G 5400	11b/g/n	Glossy black	None	None	6	Home P	Jan 11
0302-54U	P560	2.50	2GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11
0302-55U	P360	2.30	2GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11

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

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>AMD® Athlon™ II Dual-Core Mobile Processor P340 or P360 with dual-core,</b> virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache or <b>AMD Turion™ II Dual-Core Mobile Processor P540 or P560 with dual-core,</b> virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache or <b>AMD Phenom™ II Triple-Core Mobile Processor P840 with triple-core,</b> virtualization technology, integrated DDR3 memory controller, and 1.5MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64  <b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch
Memory	<b>2GB or 4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>320GB<sup>8</sup></b> (7200 rpm) or <b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™	
Widescreen display	<i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color,</b> anti-glare, <b>LED backlight,</b> 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> <b>15.6"</b> (395mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight,</b> 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus	
Integrated graphics	<b>ATI™ Radeon™ HD 4250 graphics,</b> in RS880M, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution:</i> 2456x1536@60Hz	
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch	Supports ThinkVantage® technologies
ThinkLight™	None	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color	<b>15.6W"</b> (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm <i>4-cell:</i> from 5.40 lb (2.45kg); <i>6-cell:</i> from 5.58 lb (2.53kg); <i>9-cell:</i> from 5.95 lb (2.70kg) Matte black (top) or glossy black (top), trimmed with a thin silver band (side); black bottom	
Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>6-cell</b> <i>4-cell:</i> up to 2.6 hr; <i>6-cell:</i> up to 4 hr; <i>9-cell:</i> up to 6 hr	
Chipset ExpressCard/34 Multicard Reader Ports	<b>AMD RS880M Chipset,</b> SB820M south bridge One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
PCIe Mini Card 11b/g/n Modem Bluetooth™ Ethernet Audio support	One PCI Express Half Mini Card slot 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None None Realtek® RTL8111DL Gigabit Network Connection High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None	
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information  
US models announced September 28, 2010 or January 11 or March 1, 2011  
US models withdrawn effective June or October 2011

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(LDN1-6) October 2011

# ThinkPad® Edge 15" 0319 (Intel) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

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

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles <b>Intel® Pentium® processor P6100</b> or <b>P6200</b> with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), 3MB cache or <b>Intel Core™ i3 processor i3-370M</b> or <b>i3-380M</b> with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or <b>Intel Core i5 processor i5-540M</b> with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost (3.06GHz), Hyper-Threading technology; 3MB cache										<b>Preloaded operating system</b> <sup>20</sup> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64  <b>Preloaded applications</b> <sup>14</sup> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch				
Memory	<b>2GB</b> or <b>4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz <b>DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available														
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>250GB</b> <sup>8</sup> (5400 rpm), <b>320GB</b> (5400 rpm or 7200 rpm) or <b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™														
Widescreen display	<i>Some:</i> <b>15.6"</b> (396mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> <b>15.6"</b> (396mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio														
Camera	Camera on top of screen, 0.3 or 2.0-megapixel, fixed focus														
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution:</i> 2048x1536@75Hz; 1920x1080 (HDMI port)														
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None														
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	<b>15.6W"</b> (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm <i>4-cell:</i> from 5.32 lb (2.42kg); <i>6-cell:</i> from 5.50 lb (2.50kg); <i>9-cell:</i> from 5.89 lb (2.67kg) Matte black or Black textured (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion <b>6-cell</b> <i>4-cell (32Whr):</i> up to 2.9 hr; <i>6-cell (48Whr):</i> up to 4.5 hr										Supports ThinkVantage® technologies  65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>				
Chipset ExpressCard/34 Multicard Reader Ports	<b>Mobile Intel HM55 Express Chipset</b> One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										1-year Onsite Repair 9x5 NBD 45K5968 2-year Onsite Repair 9x5 NBD 45K5969 3-year Onsite Repair 9x5 NBD 45K5970 4-year Onsite Repair 9x5 NBD 45K5973 2-year Depot Repair 45K5971 3-year Depot Repair 45K5972 4-year Depot Repair 45K5974 Post-warranty annual maintenance agreements at <a href="http://www.lenovo.com/services_warranty/us/en/index.html">http://www.lenovo.com/services_warranty/us/en/index.html</a>				
PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None None None Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack														
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None														
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available														

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

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

<b>Storage and removable storage</b>	
USB 2.0 Portable 320GB Hard Disk	45K1689 <i>ann 03/17/09</i>
USB 2.0 Portable 500GB Hard Disk	45K1690 <i>ann 05/26/09</i>
USB 2.0 Portable Secure 320GB Hard Disk	43R2019 <i>ann 11/18/08</i>
USB 3.0 Secure 500GB Hard Drive	0A65619 <i>ann 11/29/11</i>
USB 3.0 Secure 750GB Hard Drive	0A65616 <i>ann 11/29/11</i>
USB 3.0 Secure 1TB Hard Drive	0A65621 <i>ann 08/28/12</i>
Lenovo Slim USB Portable DVD Burner	0A33988 <i>ann 06/14/11</i>

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

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

<b>Mouse</b>	
ThinkPad Bluetooth Laser Mouse	0A36407 <i>ann 06/26/12</i>
Lenovo Optical Mouse (USB)	06P4069 <i>ann 05/21/03</i>
Lenovo Laser Mouse (USB)	41U3074 <i>ann 01/23/07</i>
ThinkPad USB Laser Mouse	57Y4635 <i>ann 12/15/09</i>
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405 <i>ann 08/27/02</i>
ThinkPad Travel Mouse (USB, Optical)	31P7410 <i>ann 06/04/02</i>
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188 <i>ann 12/20/11</i>
<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.	

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

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

<b>Modem</b>	
USB 2.0 Lenovo Modem	43R1814 <i>ann 02/26/08</i>

<b>Batteries<sup>37</sup></b>	
ThinkPad Battery 25 (4-cell)	51J0498 <i>ann 10/22/09</i>
ThinkPad Battery 25+ (6-cell)	51J0499 <i>ann 10/22/09</i>
ThinkPad Battery 25+++ (9-cell)	51J0500 <i>ann 10/22/09</i>
ThinkPad External Battery Charger <sup>44</sup>	40Y7625 <i>ann 09/20/05</i>
<sup>44</sup> Requires the <i>ThinkPad 90W AC Adapter</i> 40Y7659 or the adapter provided with the system.	

More information at [www.lenovo.com/alldaycomputing](http://www.lenovo.com/alldaycomputing)

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

More info at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

<i>Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493</i>	
• iPod and iPhone Charge Tip (L10a)	41R4481 <i>ann 12/18/07</i>
• Generic Micro USB charge tip (L18)	41R4490 <i>ann 01/06/09</i>

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

<b>Carrying Cases</b>	
ThinkPad 15W Case Sleeve	51J0477 <i>ann 08/18/09</i>
Lenovo Messenger Max	41U5253 <i>ann 05/01/07</i>
Lenovo Performance Backpack	41U5254 <i>ann 05/01/07</i>
ThinkPad Business Topload Case	43R2476 <i>ann 05/13/08</i>
ThinkPad Business Backpack	43R2482 <i>ann 05/13/08</i>
ThinkPad Deluxe Expander Case	43R2478 <i>ann 05/13/08</i>
ThinkPad Executive Leather Case	43R2480 <i>ann 05/13/08</i>
Lenovo Sport Backpack - Red	0A33896 <i>ann 02/28/12</i>
Lenovo Sport Slimcase - Red	0A33897 <i>ann 02/28/12</i>
Lenovo Sport Messenger - Red	0A33898 <i>ann 02/28/12</i>
Lenovo Sport Backpack - Blue	0B47298 <i>ann 08/28/12</i>
Lenovo Sport Slimcase - Blue	0B47300 <i>ann 08/28/12</i>
Lenovo Sport Messenger - Blue	0B47299 <i>ann 08/28/12</i>
Lenovo Sport Backpack - Grey	0B47301 <i>ann 08/28/12</i>
Lenovo Sport Slimcase - Grey	0B47303 <i>ann 08/28/12</i>
Lenovo Sport Messenger - Grey	0B47302 <i>ann 08/28/12</i>

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

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

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

<b>Monitor Accessories<sup>46</sup></b>	
Lenovo USB Soundbar	0A36190 <i>ann 05/01/12</i>
Lenovo HDMI to HDMI Monitor Cable	0B47070 <i>ann 05/22/12</i>
Lenovo HDMI to VGA Monitor Cable	0B47069 <i>ann 06/26/12</i>
Lenovo USB-to-DVI Monitor Adapter	45K5296 <i>ann 05/12/09</i>
Kensington MicroSaver Cable Lock	73P2582 <i>ann 12/29/03</i>
Kensington Twin Head Cable Lock	45K1620 <i>ann 09/30/08</i>
Lenovo Security Cable Lock	57Y4303 <i>ann 08/24/10</i>
Lenovo Easy Reach Monitor Stand	55Y9258 <i>ann 09/22/09</i>
<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.	

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520

# ThinkPad® Edge E520 1143 (Intel) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

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

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

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache)</b> , DDR3 memory controller (up to 1333MHz), HT technology <b>Intel Core i3-2350M processor (dual-core, 2.30GHz, 3MB Cache)</b> , DDR3 memory controller (up to 1333MHz), HT technology <b>Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB Cache)</b> , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology <b>Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB Cache)</b> , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology <b>Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache)</b> , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology <b>Intel Core i5-2520M processor (dual-core, 2.50GHz, 3MB Cache)</b> , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	<b>Preloaded operating system<sup>20</sup></b> - <i>Some:</i> Genuine Windows® 7 Home Premium 64 - <i>Some:</i> Genuine Windows 7 Professional 64  <b>Ready to install applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Fingerprint Software (fingerprint models) • Password Manager (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox  <b>Preloaded applications<sup>14</sup></b> (only some listed) • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • Adobe Acrobat® X Standard (bundled with Microsoft Office) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Memory	8GB max <sup>7</sup> / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™	
mSATA™ SSD	None	
Widescreen display	<b>15.6"</b> (396mm) <b>HD (1366x768) color</b> , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator	
Graphics	<b>Intel HD Graphics 3000</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; <i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i>	
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar <sup>13</sup>	
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch	
ThinkLight™	None	
Dimensions <sup>3</sup>	<i>15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm</i>	
Weight <sup>2</sup>	<i>6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg)</i>	
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom	
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic	
Battery - type <sup>37</sup>	Lithium Ion 6-cell or 9-cell	
Battery - life <sup>10</sup>	<i>6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr</i>	
Chipset	<b>Mobile Intel HM65 Express Chipset</b>	
ExpressCard	One ExpressCard/34	
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
PCIe Mini Card WLAN <sup>4</sup>	Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2	Supports ThinkVantage® technologies
WWAN	None	
Modem	None	
Bluetooth™	<i>Some:</i> Bluetooth 3.0 wireless	
Ethernet	Realtek® RTL8111E Gigabit Network Connection	
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	None	
Fingerprint reader	<i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor	For compatible accessories, please go to O-E520 sheet;
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	For Lenovo <sup>22</sup> service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information

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

US model(s) withdrawn effective September 2012

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# ThinkPad® Edge E525 1200 (AMD) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

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

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

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i>  <b>AMD Accelerated Processor E2-3000M</b> (dual-core, 1.80GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6380G Graphics, AMD Turbo Core technology (up to 2.40GHz), integrated DDR3 memory controller (up to 1333MHz)  <b>AMD Accelerated Processor A4-3300M</b> (dual-core, 1.90GHz, 2MB L2 cache), integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1333MHz)  <b>AMD Accelerated Processor A4-3305M</b> (dual-core, 1.90GHz, 1MB L2 cache), integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1333MHz)</p>							<p><b>Preloaded operating system<sup>20</sup></b>                      - <i>Some:</i> Genuine Windows® 7 Home Premium 64                      - <i>Some:</i> Genuine Windows 7 Professional 64</p> <p><b>Ready to install applications<sup>14</sup></b> (only some listed)                      • Rescue and Recovery™                      • Access Connections™                      • Fingerprint Software (fingerprint models)                      • Password Manager (fingerprint models)                      • ThinkVantage System Update                      • ThinkVantage Power Manager                      • ThinkVantage Toolbox</p>	
Memory	8GB max <sup>7</sup> / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets							<p><b>Preloaded applications<sup>14</sup></b> (only some listed)                      • Adobe® Reader®                      • Skype™ for Windows                      • Windows Live™ Essentials                      • Microsoft Office 2010 preloaded; purchase product key to activate                      • Adobe Acrobat® X Standard (bundled with Microsoft Office)                      • Corel® WinDVD® (DVD±RW)                      • Corel Burn.Now™ Lenovo Edition (DVD±RW)                      • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)</p>	
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™								
Widescreen display Camera	<p><b>15.6"</b> (396mm) <b>HD (1366x768) color</b>, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio                      HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator</p>								
Graphics	<p><b>AMD Radeon HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display;                      Max external resolution: 1920x1600 (VGA)@60Hz; 1920x1080p (HDMI)@60Hz</p>								
Keyboard TrackPoint® Touchpad ThinkLight™	<p>6-row, spill-resistant, multimedia Fn keys, numeric keypad                      TrackPoint® pointing device, Internet Scroll Bar<sup>13</sup>                      UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch                      None</p>							<p>Supports ThinkVantage® technologies</p> <p>65-watt AC adapter                      EPEAT™ Gold rating                      ENERGY STAR® 5.0-compliant                      RoHS-compliant                      International Warranty Service<sup>17</sup>                      24 hour x 7 day<sup>18</sup> toll-free support during the warranty period<sup>12</sup></p> <p>For compatible accessories, please go to O-E520 sheet;                      For Lenovo<sup>22</sup> service upgrade options, please go to S-EDGE sheet</p>	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	<p><b>15.6W"</b> (WxDxH): 14.96" x 9.78" x 1.2-1.51"; 380mm x 248.5mm x 30.6-38.3mm                      6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.04 lb (2.74kg)                      Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom                      Acrylonitrile-Butadiene-Styrene (ABS) plastic                      Lithium Ion 6-cell or 9-cell                      6-cell (48Whr): up to 3.75 hr; 9-cell (94Whr): up to 7.4 hr</p>								
Chipset ExpressCard Multicard Reader Ports	<p><b>AMD A60M FCH</b>                      One ExpressCard/34                      4-in-1 reader (MMC, SD, SDHC, SDXC)                      Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</p>								
PCIe Mini Card WLAN <sup>4</sup> Modem Bluetooth™ Ethernet Audio support Security Security chip Fingerprint reader	<p>One PCI Express Half Mini Card slot                      11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1                      None                      Some: Bluetooth 3.0 wireless                      Realtek® RTL8111E Gigabit Network Connection                      High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack                      Power-on password, hard disk password, supervisor password, security keyhole                      None                      Some: UPEK Fingerprint reader on palm rest, swipe sensor</p>								
Limited warranty <sup>12</sup>	<p><b>1-year</b> - depot repair service / service upgrades<sup>22</sup> available</p>								

See footnotes for more detailed information

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

US model(s) withdrawn effective July 2012

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(GGR11-1) February 2013

**Memory**

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

**Storage and removable storage**

USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 3.0 Secure 500GB Hard Drive	0A65619	ann 11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann 11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann 08/28/12
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

**ThinkPad Expansion**

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

**Keyboard**

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

**Mouse**

ThinkPad Bluetooth Laser Mouse	0A36407	ann 06/26/12
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	ann 12/20/11
<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.		

**Security**

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

**Multimedia**

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

**Modem**

USB 2.0 Lenovo Modem	43R1814	ann 02/26/08
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**Batteries<sup>37</sup>**

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

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

More information at [www.lenovo.com/alldaycomputing](http://www.lenovo.com/alldaycomputing)

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

More info at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

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

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

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

**Carrying Cases**

*Up to 15.6" widescreen models:*

Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance Backpack	41U5254	ann 05/01/07
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08
Lenovo Sport Backpack - Red	0A33896	ann 02/28/12
Lenovo Sport Slimcase - Red	0A33897	ann 02/28/12
Lenovo Sport Messenger - Red	0A33898	ann 02/28/12
Lenovo Sport Backpack - Blue	0B47298	ann 08/28/12
Lenovo Sport Slimcase - Blue	0B47300	ann 08/28/12
Lenovo Sport Messenger - Blue	0B47299	ann 08/28/12
Lenovo Sport Backpack - Grey	0B47301	ann 08/28/12
Lenovo Sport Slimcase - Grey	0B47303	ann 08/28/12
Lenovo Sport Messenger - Grey	0B47302	ann 08/28/12

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

**Monitors**

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

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

**Monitor Accessories<sup>46</sup>**

Lenovo USB Soundbar	0A36190	ann 05/01/12
Lenovo HDMI to HDMI Monitor Cable	0B47070	ann 05/22/12
Lenovo HDMI to VGA Monitor Cable	0B47069	ann 06/26/12
Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems



# ThinkPad®



Lenovo® ThinkPad SL300



Lenovo ThinkPad SL300



Lenovo ThinkPad SL300



Lenovo ThinkPad SL300



ThinkPad Ultraportable Case  
41U5062



ThinkPad Bluetooth Laser Mouse  
41U5008

# ThinkPad® SL300 2738 (GMA) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Screen type	Cam- era	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue- tooth cells	Preload	Avail date
2738-4BU	T5670	1.80	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	* Intel 5100 <sup>28</sup>	AT&T <sup>23</sup>	None	Blue	6 Home P	Aug 08
2738-4CU	T5670	1.80	2GB	13.3"	WXGA	Glossy		GMA 160G 5400	DVD±RW	* Intel 5100	AT&T	None	Blue	6 Bus 32	Aug 08
2738-4DU	T5670	1.80	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	* Intel 5100	AT&T	None	Blue	6 Bus 32	Aug 08
2738-4EU	T5670	1.80	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Blue	6 Home P	Aug 08
2738-4FU	T5670	1.80	2GB	13.3"	WXGA	Glossy		GMA 160G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Blue	6 Bus 32	Aug 08
2738-4HU	T5670	1.80	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Blue	6 Bus 32	Aug 08
2738-24U	P8600	2.40	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	† Intel 5100	AT&T	None	Blue	4 Bus 32	Aug 08
2738-25U	P8400	2.26	2GB	13.3"	WXGA	Glossy		GMA 160G 5400	DVD±RW	† Intel 5100	AT&T	None	Blue	4 Bus 32	Aug 08
2738-43U	P8600	2.40	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	† Intel 5100	AT&T	None	Blue	6 Bus 32	Aug 08
2738-44U	P8400	2.26	2GB	13.3"	WXGA	Glossy		GMA 160G 5400	DVD±RW	† Intel 5100	AT&T	None	Blue	6 Bus 32	Aug 08
2738-48U	P8600	2.40	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	† Intel 5100	WWAN upg	None	Blue	6 Bus 32	Aug 08
2738-49U	P8400	2.26	2GB	13.3"	WXGA	Glossy		GMA 160G 5400	DVD±RW	† Intel 5100	WWAN upg	None	Blue	6 Bus 32	Aug 08
2738-72U	P8400	2.26	2GB	13.3"	WXGA	Glossy		GMA 160G 5400	DVD±RW	† Intel 5100	AT&T	None	Blue	6 XP Pro	Aug 08
2738-73U	P8600	2.40	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	† Intel 5100	WWAN upg	None	Blue	6 XP Pro	Aug 08
2738-74U	T5670	1.80	2GB	13.3"	WXGA	Glossy		GMA 160G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Blue	6 XP Pro	Aug 08
2738-75U	T5670	1.80	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Blue	6 XP Pro	Aug 08
2738-7EU	P8400	2.26	2GB	13.3"	WXGA	Glossy		GMA 160G 5400	DVD±RW	† Intel 5100	WWAN upg	None	Blue	6 XP Pro	Aug 08
2738-8ZU	P7370	2.00	2GB	13.3"	WXGA	Glossy		GMA 250G 5400	DVD±RW	† Intel 5100	WWAN upg	None	Blue	6 XP Pro	Sep 08
2738-2ZU	T5870	2.00	2GB	13.3"	WXGA	Glossy	Cam	GMA 250G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Blue	6 XP Pro	Oct 08

• These small and medium business (SMB) models are part of the US TopSeller™ Program

Processor	Intel® Core™ 2 Duo processor T5670 or T5870 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core 2 Duo processor P7370, P8400, or P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business) - Some: Genuine Windows Vista Home Premium 32 - Some: Genuine Windows Vista Business 32 ◇ Vista models: Vista Premium logo
Memory	2GB 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> (all OSes) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar and Search • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
SATA DVD±RW SATA disk	Some: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB <sup>8</sup> (5400 rpm) or 250GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display Camera	13.3" (338mm) WXGA (1280x800) color, VibrantView (glossy), LED backlight, 300 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: camera on top of screen, 1.3-megapixel, fixed focus	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDCP to output protected content; Max external resolution: 2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)	
Keyboard TrackPoint® Touch pad Lighting FX	89-key, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup>	6-cell (WxDxH): 12.5" x 9.4" x 1.18-1.33"; 318mm x 238mm x 30-34mm 4-cell: starting at 4.57 lb (2.07kg) 6-cell: starting at 4.76 lb (2.16kg)	
Case color Case material Battery - type Battery - life <sup>10</sup>	Black Scratch-resistant ABS plastic, high-gloss top cover Lithium Ion 4-cell or 6-cell 4-cell: up to 3.0 hr; 6-cell: up to 4.5 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (IT8752 Super I/O) One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) None None Three USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
ExpressCard/54 Multicard reader PC Card Smart Card read Ports		ThinkPlus™, 22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976
Mini PCI Express Intel 5100 <sup>28</sup> WWAN upg AT&T <sup>23</sup>  2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support  Security Security chip Fingerprint reader	Three Mini PCI Express slots 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: Wireless WAN upgradable, optional AT&T® (43R9152) Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T®  None None 56K V.92 <sup>6</sup> modem Bluetooth 2.0 wireless, LED indicator Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None Fingerprint reader on palm rest, swipe sensor, supports the security chip	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Limited warranty <sup>12</sup>	1-year - EasyServ™ <sup>19</sup> depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information  
US models announced August 12, August 19,  
September 30 or October 14, 2008  
US models withdrawn effective September 2008, January or September 2009

\* Intel Centrino® processor technology  
† Intel Centrino 2 processor technology

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(CAR1-1) September 2009

# ThinkPad® SL300 2738 (GMA) - TopSeller (January 2009) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Proc- essor GHz	Memory	Wide- screen display	Screen type	Cam- era	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Blue- tooth	Finger print reader	Bat- tery cells	Preload	Avail date	
2738-A2U	T5870	2.00 2GB	13.3"	WXGA	Glossy	GMA	160G 5400	DVD±RW	* Intel 5100 <sup>28</sup>	WWAN upg	None	Blue	Fing	6	XP Pro	Dec 08	
2738-A3U	T5870	2.00 2GB	13.3"	WXGA	Glossy	GMA	160G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Blue	Fing	6	Bus 32	Dec 08	
2738-A4U	T5870	2.00 <b>3GB</b>	13.3"	WXGA	Glossy	Cam	GMA	250G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Blue	Fing	6	Home P	Dec 08
2738-2JU	P8600	2.40 <b>2GB</b>	13.3"	WXGA	Glossy	Cam	GMA	250G 5400	DVD±RW	† Intel 5100	WWAN upg	None	Fing	4	Bus 32	Dec 08	
2738-H2U	P8600	2.40 2GB	13.3"	WXGA	Glossy	GMA	160G 5400	DVD±RW	† WiMAX		None	Blue	Fing	6	Bus 32	Jan 09	
2738-K3U	T5870	2.00 1GB	13.3"	WXGA	Glossy	GMA	160G 5400	DVD±RW	* Intel 5100		None		Fing	6	XP Pro	Feb 09	

• These small and medium business (SMB) models are part of the US TopSeller™ Program

Processor	<b>Intel® Core™ 2 Duo processor T5870 with dual-core</b> , 800MHz system bus, and 2MB L2 cache or <b>Intel Core 2 Duo processor P8600 with dual-core</b> , Intel HD boost, 1066MHz system bus, and 3MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Some: Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business - Some: Genuine Windows Vista Home Premium 32 - Some: Genuine Windows Vista Business 32 † <i>2JU model:</i> Vista Premium logo † <i>Other Vista models:</i> Vista Basic logo  <b>Preloaded applications<sup>14</sup></b> (all OSes; only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkPad Utilities (Power Manager and Presentation Director) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
Memory	<b>1GB, 2GB, or 3GB</b> 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	
SATA DVD±RW SATA disk	<i>Some:</i> DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm) or <b>250GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display Camera	<b>13.3"</b> (338mm) <b>WXGA (1280x800) color, VibrantView (glossy)</b> , LED backlight, 300 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus	
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GM45, HDMI port supporting HDCP to output protected content; <i>Max external resolution:</i> 2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup>	<i>6-cell (WxDxH):</i> 12.5" x 9.4" x 1.18–1.33"; 318mm x 238mm x 30–34mm <i>4-cell:</i> starting at 4.57 lb (2.07kg) <i>6-cell:</i> starting at 4.76 lb (2.16kg)	
Case color Case material Battery - type Battery - life <sup>10</sup>	Black Scratch-resistant ABS plastic, high-gloss top cover Lithium Ion <b>4-cell</b> or <b>6-cell</b> <i>4-cell:</i> up to 3.0 hr; <i>6-cell:</i> up to 4.5 hr	
Chipset	<b>Mobile Intel GM45 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O)	
ExpressCard/54 Multicard reader PC Card Smart Card read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) None None Three USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express Intel 5100 <sup>28</sup> WiMAX WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader Limited warranty <sup>12</sup>	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n and WiMAX wireless <sup>4</sup> , Mini PCIe adap, Intel WiMAX/WiFi Link 5150, 1x2 (300Mbps) WiFi + 1x2 WiMAX (Echo Peak) <i>Some:</i> Wireless WAN upgradable, optional AT&T® (43R9152) None None 56K V.92 <sup>6</sup> modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> Fingerprint reader on palm rest, swipe sensor <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	
	Supports ThinkVantage® technologies  65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™. <sup>22</sup> 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976  Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>	

See footnotes for important warranty information

US models announced Dec 16, 2008,  
Jan 6, 2009 or Feb 24, 2009

US models withdrawn effective September 2009 or April 2010

\* Intel Centrino® processor technology

† Intel Centrino 2 processor technology

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(CAR11-1) April 2010

# ThinkPad® SL300 2738 (NVIDIA®) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Camera	Discrete graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Battery Blue-tooth cells	Preload	Avail date
2738-22U	T9400	2.53	4GB	13.3"	WXGA	Glossy	Cam	9300M 320G 5400	BD burner	Intel 5100	AT&T <sup>23</sup>	2G Turbo	Blue	6 Ult 32	Aug 08
2738-23U	P8600	2.40	2GB	13.3"	WXGA	Glossy	Cam	9300M 250G 5400	DVD±RW	Intel 5100	AT&T	2G Turbo	Blue	6 Bus 32	Aug 08
2738-42U	P8400	2.26	2GB	13.3"	WXGA	Glossy	Cam	9300M 160G 5400	DVD±RW	Intel 5100	AT&T		Blue	6 Bus 32	Aug 08
2738-46U	P8400	2.26	2GB	13.3"	WXGA	Glossy	Cam	9300M 160G 5400	DVD±RW	Intel 5100	WWAN upg		Blue	6 Bus 32	Aug 08
2738-7CU	P8600	2.40	2GB	13.3"	WXGA	Glossy	Cam	9300M 250G 5400	DVD±RW	Intel 5100	AT&T		Blue	6 XP Pro	Aug 08
2738-7DU	P8400	2.26	2GB	13.3"	WXGA	Glossy	Cam	9300M 160G 5400	DVD±RW	Intel 5100	WWAN upg		Blue	6 XP Pro	Aug 08
2738-H3U	P8600	2.40	2GB	13.3"	WXGA	Glossy	Cam	9300M 250G 5400	BD player	Intel 5100			Blue	6 XP Pro	Feb 09

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **A comprehensive computing solution for small and medium business**
- **Balanced between serious business computing and powerful multimedia features**

Processor	<b>Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core,</b> Intel HD boost, 1066MHz system bus; <i>P8400/P8600:</i> 3MB L2 cache; <i>T9400:</i> 6MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - <i>Some:</i> Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business - <i>Some:</i> Genuine Windows Vista Business 32 - <i>Some:</i> Genuine Windows Vista Ultimate 32 ↗ <i>Vista models:</i> Vista Premium logo <b>Preloaded applications<sup>14</sup></b> (all OSes; only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW, Blu-ray) • Ulead® DVD MovieFactory® (Blu-ray) • Ulead Burn.Now™ and Data-Add (Blu-ray)
Memory	<b>2GB or 4GB</b> 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	
SATA DVD±RW SATA BD burner SATA BD player SATA disk	<i>Some:</i> DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <i>Some:</i> Blu-ray™ burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <i>Some:</i> Blu-ray player, DVD burner, SATA 1.5Gb/s, 12.7mm, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm), <b>250GB</b> (5400 rpm), or <b>320GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display Camera	<b>13.3"</b> (338mm) <b>WXGA (1280x800) color, VibrantView (glossy),</b> LED backlight, 300 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus	
Discrete graphics	<b>NVIDIA® GeForce 9300M,</b> PCI Express® x16, <b>128MB</b> memory, HDMI port supporting HDCP to output protected content; <i>Max external resolution:</i> 2048x1536@85Hz (VGA DB-15 port); 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	<i>6-cell (WxDxH):</i> 12.5" x 9.4" x 1.18–1.33"; 318mm x 238mm x 30–34mm <i>6-cell:</i> starting at 4.76 lb (2.16kg) Black Scratch-resistant ABS plastic, high-gloss top cover Lithium Ion <b>6-cell</b> <i>6-cell:</i> up to 4.5 hr	
Chipset	<b>Mobile Intel PM45 Express Chipset</b> (Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O)	
ExpressCard/54 Multicard reader PC Card Smart Card read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) None None Three USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express Intel 5100 <sup>28</sup> WWAN upg AT&T <sup>23</sup>  2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support  Security Security chip Fingerprint reader Limited warranty <sup>12</sup>	Three Mini PCI Express slots 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> Wireless WAN upgradable, optional AT&T® (43R9152) <i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 <sup>6</sup> modem Bluetooth 2.1 wireless, LED indicator Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None Fingerprint reader on palm rest, swipe sensor <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	
	90-watt (NVIDIA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976  Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>	

See footnotes for important warranty information      ↗ Intel Centrino 2 processor technology  
 US models announced August 12 or August 19, 2008, or February 10, 2009  
 US models withdrawn effective September 2008, September 2009, or April 2010

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 (CAR1-2) April 2010

<b>Memory</b>		
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann 01/05/06
1GB PC2-5300 DDR2 SODIMM (25-Pack)	51J0502	ann 03/17/09
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann 11/28/06
2GB PC2-5300 DDR2 SODIMM (25-Pack)	51J0548	ann 03/17/09

<b>Storage and removable storage</b>		
SL 320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3405	ann 07/15/08
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

<b>Wireless WAN (Mini PCI Express)</b>		
<i>Only WWAN upgradable models:</i>		
Verizon® WWAN UNDP Broadband Mini PCIe	43R9151	ann 08/05/08
AT&T® WWAN HSPA Broadband Mini PCIe	43R9152	ann 08/26/08

<b>ThinkPad Expansion</b>		
Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09
USB Port Replicator with Digital Video	45K1610	ann 07/28/09

<b>Keyboard</b>		
TrackPoint Cap Collection	73P2698	ann 12/16/03
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
UltraSlim Wireless Keyboard and Mouse <sup>52</sup>	57Y4700	ann 09/15/09
<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.		
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Preferred Pro USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

<b>Mouse</b>		
Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08

<b>Security</b>		
Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
USB Gemplus Smart Card Reader	41N3040	ann 02/21/06
ExpressCard Gemplus Smart Card Reader <sup>47</sup>	41N3043	ann 06/27/06
<sup>47</sup> Requires ExpressCard slot		

<b>Multimedia</b>		
ThinkPad In-Ear Headphones	57Y4488	ann 01/07/10

<b>Batteries</b>		
ThinkPad Battery 41+ (6-cell)	40Y6799	ann 01/05/06
ThinkPad Battery 41++ (9-cell)	40Y6797	ann 09/20/05
ThinkPad External Battery Charger <sup>44</sup>	40Y7625	ann 09/20/05
<sup>44</sup> Requires the <i>ThinkPad 90W AC Adapter 40Y7659</i> or the adapter provided with the system.		

More information at <a href="http://www.lenovo.com/alldaycomputing">www.lenovo.com/alldaycomputing</a>		
ThinkPad 65W AC Adapter <sup>45</sup>	40Y7696	
<sup>45</sup> Only compatible with the integrated graphics models.		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
90W UltraSlim AC/DC Combo Adapter	41R4493	ann 09/22/09

More info at <a href="http://www.lenovo.com/support/poweradapters">www.lenovo.com/support/poweradapters</a>		
<i>Charging tips for 90W UltraSlim AC/DC Combo Adapter 41R4493</i>		
•BlackBerry charge tip (L8a)	41R4478	ann 12/18/07
•iPod and iPhone Charge Tip (L10a)	41R4481	ann 12/18/07
•Generic Micro USB charge tip (L18)	41R4490	ann 01/06/09

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

<b>Carrying Cases</b>		
<i>Up to 13.3" widescreen models:</i>		
ThinkPad Ultraportable Case	41U5062	ann 05/13/08

<i>Up to 15.4" widescreen models:</i>		
ThinkPad 15W Case Sleeve	51J0477	ann 08/18/09
Lenovo Business Messenger Case	51J0475	ann 08/18/09
Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance Backpack	41U5254	ann 05/01/07
Checkpoint Friendly Business Topload Case	51J0418	ann 05/05/09
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08

<b>Monitors</b>		
ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

<b>Monitor Accessories<sup>46</sup></b>		
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09
Radial Arm	19K4464	ann 05/05/00
<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.		

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on ThinkPad SL accessories, please visit:  
[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)  
[www.lenovo.com/support/notebookaccessories](http://www.lenovo.com/support/notebookaccessories)  
[www.lenovo.com/support/security](http://www.lenovo.com/support/security)

Other accessories at [www.lenovo.com/accessories](http://www.lenovo.com/accessories)  
 Accessories Guide pdf at [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

# ThinkPad®



Lenovo® ThinkPad SL400



Lenovo ThinkPad SL400



Lenovo ThinkPad SL400



ThinkPad Battery 41++ (9-cell)  
40Y6797



Lenovo ThinkPad SL400



Lenovo ThinkPad SL400

# ThinkPad® SL400 2743 (GMA) - TopSeller (Celeron) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Celeron processor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Screen era	Cam-integrated graphics	Disk SATA GB <sup>8</sup>	SATA rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Blue-tooth	Battery Preload	Avail date
2743-9YU	Cel 585	2.16	1GB	14.1" WXGA		Glossy	None	GMA 80G	80G	5400	DVD±RW	11b/g <sup>32</sup>	WWAN upg	None	None	6 Home B	Aug 08
2743-9ZU	Cel 585	2.16	1GB	14.1" WXGA			None	GMA 160G	160G	5400	DVD±RW	11b/g	WWAN upg	None	None	6 XP Pro	Aug 08
2743-B2U	Cel T1600	1.66	1GB	14.1" WXGA			None	GMA 160G	160G	5400	DVD±RW	11b/g	WWAN upg	None	None	6 XP Pro	Sep 08
2743-LHU	Cel T1600	1.66	1GB	14.1" WXGA	LED	Glossy	None	GMA 160G	160G	5400	DVD±RW	11b/g		None	None	6 XP Pro	Mar 09

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **A comprehensive computing solution for small and medium business**
- **Balanced between serious business computing and powerful multimedia features**

Processor	<b>Intel® Celeron® Processor 585</b> with single-core, 667MHz system bus, and 1MB L2 cache or <b>Intel Celeron Processor T1600 with dual-core</b> , 667MHz system bus, and 1MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Some: Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business - Some: Genuine Windows Vista Home Basic 32 ♦ Vista models: Vista Basic logo <b>Preloaded applications<sup>14</sup></b> (all OSes; only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
Memory	<b>1GB</b> std / 4GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>80GB<sup>8</sup></b> (5400 rpm) or <b>160GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	<i>Some:</i> <b>14.1"</b> (358.1mm) <b>WXGA (1280x800) color</b> , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> <b>14.1"</b> (358.1mm) <b>WXGA (1280x800) color, VibrantView</b> (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> <b>14.1"</b> (358.1mm) <b>WXGA (1280x800) color, VibrantView</b> (glossy), <b>LED backlight</b> , high brightness 680 nits, 16:10 aspect ratio, 300:1 contrast ratio	
Camera	None	
Integrated graphics	<b>Intel Graphics Media Accelerator 4500M (GMA 4500M)</b> , in GL40, HDMI port supporting HDCP to output protected content; <i>Max external resolution:</i> 2048x1536@75Hz (DB-15 port); 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys, Windows and App keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case Battery - type Battery - life <sup>10</sup>	<i>6-cell 14.1W"</i> (WxDxH): 13.2" x 9.7" x 1.34–1.46"; 336mm x 247mm x 34–37mm <i>6-cell:</i> starting at 5.5 lb (2.5kg) <i>Color:</i> black; <i>Material:</i> scratch-resistant ABS plastic, high-gloss top cover Lithium Ion <b>6-cell</b> <i>6-cell:</i> up to 4.1 hr; <i>9-cell:</i> up to 6 hr	
Chipset	<b>Mobile Intel GL40 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O)	
ExpressCard Multicard Reader PC Card Smart Card Read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express 11b/g <sup>32</sup> WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots 11b/g wireless <sup>4</sup> , ThinkPad 11b/g Mini PCIe Adapter III, Atheros AR5007EG <i>Some:</i> Wireless WAN upgradable, optional AT&T® (43R9152) None None 56K V.92 <sup>6</sup> modem None Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None None	
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>

See footnotes for important warranty information  
 US models announced August 20 or September 30, 2008, or March 31, 2009  
 US models withdrawn effective September 2009 or April 2010

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 (CAY1-3) April 2010

Proc- Type-model	essor GHz	Memory	Wide- screen display	Screen type	Cam- era	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue- tooth cells	Preload	Avail date
2743-48U	T5670	1.80	2GB	14.1"	WXGA		GMA 250G 5400	DVD±RW	* Intel 5100 <sup>28</sup>	AT&T <sup>23</sup>		6	Bus 32	July 08
2743-49U	T5670	1.80	2GB	14.1"	WXGA	Glossy Cam	GMA 250G 5400	DVD±RW	* Intel 5100	AT&T		Blue	Home P	July 08
2743-4AU	T5670	1.80	2GB	14.1"	WXGA		GMA 250G 5400	DVD±RW	* Intel 5100	WWAN upg		6	Bus 32	July 08
2743-4BU	T5670	1.80	2GB	14.1"	WXGA	Glossy Cam	GMA 250G 5400	DVD±RW	* Intel 5100	WWAN upg		Blue	Home P	July 08
2743-42U	P8400	2.26	1GB	14.1"	WXGA		GMA 160G 5400	Combo	∓ Intel 5100	AT&T		6	Bus 32	July 08
2743-43U	P8400	2.26	2GB	14.1"	WXGA		GMA 160G 5400	DVD±RW	∓ Intel 5100	AT&T		6	Bus 32	July 08
2743-45U	P8400	2.26	1GB	14.1"	WXGA		GMA 160G 5400	Combo	∓ Intel 5100	WWAN upg		6	Bus 32	July 08
2743-46U	P8400	2.26	2GB	14.1"	WXGA		GMA 160G 5400	DVD±RW	∓ Intel 5100	WWAN upg		6	Bus 32	July 08
2743-23U	P8600	2.40	2GB	14.1"	WXGA	Cam	GMA 160G 5400	DVD±RW	∓ Intel 5100	AT&T		Blue	Home P	July 08
2743-26U	P8600	2.40	2GB	14.1"	WXGA	Cam	GMA 160G 5400	DVD±RW	∓ Intel 5100	WWAN upg	2G Turbo	Blue	Bus 32	July 08
2743-7ZU	P8400	2.26	2GB	14.1"	WXGA		GMA 160G 5400	DVD±RW	∓ Intel 5100	AT&T		Blue	XP Pro	Aug 08
2743-83U	P8400	2.26	2GB	14.1"	WXGA		GMA 160G 5400	DVD±RW	∓ Intel 5100	WWAN upg		6	XP Pro	Aug 08
2743-86U	T5670	1.80	2GB	14.1"	WXGA		GMA 250G 5400	DVD±RW	* Intel 5100	WWAN upg		6	XP Pro	Aug 08
2743-89U	P8400	2.26	2GB	14.1"	WXGA	Cam	GMA 250G 5400	DVD±RW	∓ Intel 5100	WWAN upg		Blue	XP Pro	Aug 08
2743-8CUP	P8600	2.40	2GB	14.1"	WXGA	Cam	GMA 160G 5400	DVD±RW	∓ Intel 5100	WWAN upg		Blue	XP Pro	Aug 08
2743-6DUP	P7370	2.00	2GB	14.1"	WXGA		GMA 250G 5400	DVD±RW	∓ Intel 5100	WWAN upg		6	XP Pro	Sep 08
2743-6AU	T5870	2.00	2GB	14.1"	WXGA	Cam	GMA 250G 5400	DVD±RW	∓ Intel 5100	WWAN upg		Blue	XP Pro	Oct 08

• These small and medium business (SMB) models are part of the US TopSeller™ Program

Processor	Intel® Core™ 2 Duo processor T5670 or T5870 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core 2 Duo processor P7370, P8400, or P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business) - Some: Genuine Windows Vista Home Premium 32 - Some: Genuine Windows Vista Business 32 ∓ 42U/45U models: Vista Basic logo ∓ 2GB Vista models: Vista Premium logo
Memory	1GB or 2GB 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	
SATA Combo SATA DVD±RW SATA disk	Some: DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in Some: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB <sup>8</sup> (5400 rpm), 250GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	Some: 14.1" (358.1mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 14.1" (358.1mm) WXGA (1280x800) color, VibrantView (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	Preloaded applications <sup>14</sup> (all OSes) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities • Adobe® Reader • Windows Live™ Toolbar and Search • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (combo, DVD±RW)
Camera	Some: camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDCP to output protected content; Max external resolution: 2048x1536@75Hz (VGA); 1920x1080 (HDMI)	
Keyboard TrackPoint® Touch pad Lighting FX	89-key, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case Battery - type Battery - life <sup>10</sup>	6-cell 14.1W" (WxDxH): 13.2" x 9.7" x 1.34–1.46"; 336mm x 247mm x 34–37mm 6-cell: starting at 5.5 lb (2.5kg) Color: black; Material: scratch-resistant ABS plastic, high-gloss top cover Lithium Ion 6-cell 6-cell: up to 4.1 hr; 9-cell: up to 6 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (IT8752 Super I/O)	65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
ExpressCard Multicard Reader PC Card Std Smart Card Read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	ThinkPlus™, 22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976
Mini PCI Express Intel 5100 <sup>28</sup> WWAN upg AT&T <sup>23</sup> 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: Wireless WAN upgradable, optional AT&T® (43R9152) Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T® Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 <sup>6</sup> modem Some: Bluetooth 2.0 wireless, LED indicator Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None Fingerprint reader on palm rest, swipe sensor, supports the security chip	ThinkPlus 5-year P&L P/U Depot 45K5976 Post-warranty annual maintenance agreements at
Limited warranty <sup>12</sup>	1-year - EasyServ™, 19 depot repair service / service upgrades <sup>22</sup> available	lenovo.com/thinkplus/warranty

See footnotes for important warranty information

US models announced July 15, July 29, September 30 or October 7, 2008

US models withdrawn effective September 2008, January or September 2009

\* Intel Centrino® processor technology

∓ Intel Centrino 2 processor technology

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(CAY1-1) September 2009



# ThinkPad® SL400 2743 (GMA) - TopSeller (January 2009) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Blue-tooth	Finger print reader	Battery Pre-load	Avail date
2743-6GU	T5870	2.00	2GB	14.1" WXGA			GMA	250G 5400	DVD±RW	* Intel 5100 <sup>28</sup>	WWAN upg	None		Fing 6	XP Pro	Dec08
2743-6HU	T5870	2.00	2GB	14.1" WXGA			GMA	250G 5400	DVD±RW	* Intel 5100	WWAN upg	None		Fing 6	Bus 32	Dec08
2743-6JU	T5870	2.00	<i>3GB</i>	14.1" WXGA	Glossy	Cam	GMA	250G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Blue	Fing 6	Home P	Dec08
2743-3WU	P8600	2.40	<i>2GB</i>	14.1" WXGA		Cam	GMA	160G 5400	DVD±RW	‡ Intel 5100	WWAN upg	None		Fing 6	Home P	Dec08
2743-H2U	P8600	2.40	2GB	14.1" WXGA			GMA	160G 5400	DVD±RW	‡ WiMAX	WWAN upg	None		Fing 6	Bus 32	Jan 09
2743-H3U	P8600	2.40	<i>3GB</i>	14.1" WXGA		Cam	GMA	160G 5400	DVD±RW	‡ Intel 5100	WWAN upg	None	Blue	Fing 6	XP Pro	Jan 09

• **These small and medium business (SMB) models are part of the US TopSeller™ Program**

Processor	<b>Intel® Core™ 2 Duo processor T5870 with dual-core,</b> 800MHz system bus, and 2MB L2 cache or <b>Intel Core 2 Duo processor P8600 with dual-core,</b> Intel HD boost, 1066MHz system bus, and 3MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - <i>Some:</i> Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business - <i>Some:</i> Genuine Windows Vista Home Premium 32 - <i>Some:</i> Genuine Windows Vista Business 32 † <i>3WU model:</i> Vista Premium logo † <i>Other Vista models:</i> Vista Basic logo  <b>Preloaded applications<sup>14</sup></b> (all OSes; only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader® • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
Memory	<b>2GB</b> or <b>3GB</b> 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	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm), <b>250GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	<i>Some:</i> <b>14.1"</b> (358.1mm) <b>WXGA (1280x800) color</b> , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> <b>14.1"</b> (358.1mm) <b>WXGA (1280x800) color, VibrantView</b> (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	
Camera	<i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GM45, HDMI port supporting HDCP to output protected content; <i>Max external resolution:</i> 2048x1536@75Hz (VGA); 1920x1080 (HDMI)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case Battery - type Battery - life <sup>10</sup>	<i>6-cell 14.1W"</i> (WxDxH): 13.2" x 9.7" x 1.34–1.46"; 336mm x 247mm x 34–37mm <i>6-cell:</i> starting at 5.5 lb (2.5kg) <i>Color:</i> black; <i>Material:</i> scratch-resistant ABS plastic, high-gloss top cover Lithium Ion <b>6-cell</b> <i>6-cell:</i> up to 4.1 hr; <i>9-cell:</i> up to 6 hr	
Chipset	<b>Mobile Intel GM45 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O) One slot (ExpressCard/34, ExpressCard/54)	
ExpressCard Multicard Reader PC Card Smart Card Read Ports	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express Intel 5100 <sup>28</sup> WiMAX WWAN upg AT&T <sup>23</sup> 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n and WiMAX wireless <sup>4</sup> , Mini PCIe adap, Intel WiMAX/WiFi Link 5150, 1x2 (300Mbps) WiFi + 1x2 WiMAX (Echo Peak) <i>Some:</i> Wireless WAN upgradable, optional AT&T® (43R9152) <i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 <sup>6</sup> modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> Fingerprint reader on palm rest, swipe sensor	
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	65-watt (GMA graphics) AC adapter ROHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976  Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>

See footnotes for important warranty information  
US models announced Dec 16, 2008 or Jan 6, 2009  
US models withdrawn effective September 2009 or April 2010

\* Intel Centrino® processor technology  
‡ Intel Centrino 2 processor technology

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(CAY11-1) April 2010

# ThinkPad® SL400 2743 (GMA) - TopSeller (April 2009) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB or Turbo	Blue-tooth	Finger print reader	Battery Pre-load	Whorse (W) Gbl Educ	(W) Avail date
2743-LJU	T5870	2.00	2GB	14.1"	WXGA	LED Glossy		GMA	160G 5400	DVD±RW	* Intel 5100 <sup>28</sup>	None	None		6 XP Pro		Mar 09	
2743-LKU	T5870	2.00	<b>3GB</b>	14.1"	WXGA	LED Glossy		GMA	250G 5400	DVD±RW	* Intel 5100	None	None	Fing	6 XP Pro		Mar 09	
2743-LLU	T5870	2.00	<b>3GB</b>	14.1"	WXGA	LED Glossy		GMA	250G 5400	DVD±RW	* Intel 5100	None	None	Fing	6 Bus 32		Mar 09	
2743-LMU	T6570	2.10	<b>3GB</b>	14.1"	WXGA	LED Glossy	Cam	GMA	320G 5400	DVD±RW	* Intel 5100	None	None	Blue Fing	6 XP Pro		Mar 09	
2743-LNU	P8600	2.40	2GB	14.1"	WXGA	LED Glossy	Cam	GMA	250G 5400	DVD±RW	⚡ Intel 5100	None	None	Blue Fing	6 XP Pro		Mar 09	
2743-Q3U	T6570	2.10	2GB	14.1"	WXGA	LED Glossy	Cam	GMA	250G 5400	DVD±RW	* Intel 5100	None	None	Blue Fing	6 Ult 32	Edu	Apr 09	
2743-DGU	T5870	2.00	<b>3GB</b>	14.1"	WXGA	LED Glossy	Cam	GMA	250G 5400	DVD±RW	* Intel 5100	None	None	Fing	6 XP Pro		Jul 09	
2743-DHU	P7570	2.26	<b>3GB</b>	14.1"	WXGA	LED Glossy	Cam	GMA	320G 5400	DVD±RW	⚡ Intel 5100	None	None	Blue Fing	6 XP Pro		Jul 09	
2743-EGU	T5870	2.00	2GB	14.1"	WXGA	Glossy		GMA	160G 5400	DVD±RW	* Intel 5100	None	None		6 XP Pro		Jul 09	

• **These small and medium business (SMB) models are part of the US TopSeller™ Program**

Processor	<b>Intel® Core™ 2 Duo processor T5870 or T6570 with dual-core,</b> 800MHz system bus, and 2MB L2 cache or <b>Intel Core 2 Duo processor P7570 or P8600 with dual-core,</b> Intel HD boost, 1066MHz system bus, and 3MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - <i>Some:</i> Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business - <i>Some:</i> Genuine Windows Vista Business 32 - <i>Some:</i> Genuine Windows Vista Ultimate 32 ◇ <i>Vista models:</i> Vista Basic logo
Memory	<b>2GB or 3GB</b> 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	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm), <b>250GB</b> (5400 rpm), or <b>320GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	<b>Preloaded applications<sup>14</sup></b> (all OSes; only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader® • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
Widescreen display	<i>Some:</i> <b>14.1"</b> (358.1mm) <b>WXGA (1280x800) color, VibrantView</b> (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> <b>14.1"</b> (358.1mm) <b>WXGA (1280x800) color, VibrantView</b> (glossy), <b>LED backlight</b> , high brightness 680 nits, 16:10 aspect ratio, 300:1 contrast ratio	
Camera	<i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GM45, HDMI port supporting HDCP to output protected content; <i>Max external resolution:</i> 2048x1536@75Hz (VGA); 1920x1080 (HDMI)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	<i>6-cell 14.1W"</i> (WxDxH): 13.2" x 9.7" x 1.34–1.46"; 336mm x 247mm x 34–37mm <i>6-cell:</i> starting at 5.5 lb (2.5kg) black scratch-resistant ABS plastic, high-gloss top cover Lithium Ion <b>6-cell</b> <i>6-cell:</i> up to 4.1 hr; <i>9-cell:</i> up to 6 hr	65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Chipset	<b>Mobile Intel GM45 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O)	
ExpressCard Multicard Reader PC Card Smart Card Read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	ThinkPlus™, 22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976
Mini PCI Express Intel 5100 <sup>28</sup> WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None None None 56K V.92 <sup>6</sup> modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> Fingerprint reader on palm rest, swipe sensor	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information  
US models announced Mar 31 or April 7, 2009,  
or July 7, 2009  
US models withdrawn effective April 2010

\* Intel Centrino® processor technology  
⚡ Intel Centrino 2 processor technology

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(CAY11-2) April 2010

# ThinkPad® SL400 2743 (NVIDIA®) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Screen type	Cam-Discrete era graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery cells	Preload	Avail date	
2743-44U	P8400	2.26	2GB	14.1"	WXGA+	Cam 9300M	160G 5400	DVD±RW	Intel 5100 <sup>28</sup>	AT&T <sup>23</sup>	6	Business 32	July 08	
2743-47U	P8400	2.26	2GB	14.1"	WXGA+	Cam 9300M	160G 5400	DVD±RW	Intel 5100	WWAN upg	6	Business 32	July 08	
2743-22U	P8400	2.26	2GB	14.1"	WXGA	Glossy Cam 9300M	250G 5400	DVD±RW	Intel 5100	AT&T	6	Business 32	July 08	
2743-24U	P8600	2.40	2GB	14.1"	WXGA	Glossy Cam 9300M	250G 5400	DVD±RW	Intel 5100	AT&T	2G Turbo	6	Business 32	July 08
2743-25U	T9400	2.53	4GB	14.1"	WXGA+	Cam 9300M	320G 5400	BD burner	Intel 5100	AT&T	2G Turbo	9	Ultimate 32	July 08
2743-82U	P8400	2.26	2GB	14.1"	WXGA+	Cam 9300M	160G 5400	DVD±RW	Intel 5100	AT&T <sup>23</sup>	6	XP Pro	Aug 08	
2743-84U	P8400	2.26	2GB	14.1"	WXGA+	Cam 9300M	160G 5400	DVD±RW	Intel 5100	WWAN upg	6	XP Pro	Aug 08	
<ul style="list-style-type: none"> <li>• These small and medium business (SMB) models are part of the US TopSeller™ Program</li> <li>• A comprehensive computing solution for small and medium business</li> <li>• Balanced between serious business computing and powerful multimedia features</li> </ul>														
Processor	Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD boost, 1066MHz system bus; P8400/P8600: 3MB L2 cache; T9400: 6MB L2 cache										Preloaded operating system <sup>20</sup>			
Memory	1GB, 2GB, 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										- Some: Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)			
SATA DVD±RW	Some: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in										- Some: Genuine Windows Vista Business 32			
SATA BD burner	Some: Blu-ray™ burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in										- Some: Genuine Windows Vista Ultimate 32			
SATA disk	160GB <sup>8</sup> (5400 rpm), 250GB (5400 rpm), or 320GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™										◇ Vista models: Vista Premium logo			
Widescreen display	Some: 14.1" (358.1mm) WXGA (1280x800) color, VibrantView (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio										Preloaded applications <sup>14</sup> (all OSes)			
Camera	Some: 14.1" (358.1mm) WXGA+ (1440x900) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio										<ul style="list-style-type: none"> <li>• Lenovo Care™ Tools</li> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Password Manager</li> <li>• ThinkVantage System Update</li> <li>• Fingerprint Software</li> <li>• McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions)</li> <li>• PC-Doctor™ (diagnostics)</li> <li>• ThinkPad Utilities (Power Manager and Presentation Director)</li> <li>• Adobe® Reader</li> <li>• Windows Live™ Toolbar</li> <li>• Windows Live Search</li> <li>• Microsoft® Office 2007 Trial (60-day)</li> <li>• Roxio® Creator® Small Business Edition (DVD±RW)</li> <li>• Roxio MyDVD® (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW, Blu-ray)</li> <li>• Ulead® DVD MovieFactory® (Blu-ray)</li> </ul>			
Discrete graphics	NVIDIA® GeForce 9300M, PCI Express® x16, 256MB memory, HDMI port supporting HDCP to output protected content; Max external resolution: 2048x1536@85Hz (DB-15 port); 1920x1080 (HDMI port)													
Keyboard	89-key, Lenovo® Care button, spill-resistant, multimedia Fn keys													
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass													
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label													
Lighting FX	Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo													
Dimensions <sup>3</sup>	6-cell 14.1W" (WxDxH): 13.2" x 9.7" x 1.34–1.46"; 336mm x 247mm x 34–37mm													
Weight <sup>2</sup>	6-cell: starting at 5.5 lb (2.5kg); 9-cell: starting at 5.9 lb (2.7kg)													
Case	Color: black; Material: scratch-resistant ABS plastic, high-gloss top cover													
Battery - type	Lithium Ion 6-cell or 9-cell													
Battery - life <sup>10</sup>	6-cell: up to 3.6 hr; 9-cell: up to 5.5 hr													
Chipset	Mobile Intel PM45 Express Chipset (Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (IT8752 Super I/O)													
ExpressCard slot	One ExpressCard/34 or ExpressCard/54													
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)													
PC Card Std slot	None													
Smart Card Read	None													
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)													
Mini PCI Express	Three Mini PCI Express slots										90-watt (NVIDIA graphics) AC adapter			
Intel 5100 <sup>28</sup>	11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)										RoHS-compliant			
WWAN upg	Some: Wireless WAN upgradable, optional AT&T® (43R9152)										International Warranty Service <sup>17</sup>			
AT&T <sup>23</sup>	Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T®										24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378			
2G Turbo	Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator										ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD			
UWB	None										45K5968			
Modem	56K V.92 <sup>6</sup> modem										ThinkPlus 2-year LOR 9x5 NBD			
Bluetooth™	Bluetooth 2.0 wireless, LED indicator										45K5969			
Ethernet	Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1										ThinkPlus 3-year LOR 9x5 NBD			
Intel AMT	None										45K5970			
Audio support	High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack										ThinkPlus 4-year LOR 9x5 NBD			
Security	Power-on password, hard disk password, supervisor password, security keyhole										45K5973			
Security chip	None										ThinkPlus 5-year LOR 9x5 NBD			
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip										45K5975			
Limited warranty <sup>12</sup>	1-year - EasyServ™.19 depot repair service / service upgrades <sup>22</sup> available										ThinkPlus 2-year P&L P/U Depot			
1GB PC2-5300 DDR2 SODIMM	40Y7734		T/R/W/SL Series Li-Ion Battery 6-cell		40Y6799		ThinkPlus 3-year P&L P/U Depot			45K5972				
2GB PC2-5300 DDR2 SODIMM	40Y7735		T/R/W/SL Series Li-Ion Battery 9-cell		40Y6797		ThinkPlus 4-year P&L P/U Depot			45K5974				
SL 320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3405		ThinkPad 90W AC Adapter		40Y7659		ThinkPlus 5-year P&L P/U Depot			45K5976				
USB 2.0 Ultra Secure Memory Key 8GB	45J5918		90W Slim AC/DC Combo Adapter		41N8460		Post-warranty annual maintenance agreements at			lenovo.com/thinkplus/warranty				
USB 2.0 Portable Secure 320GB Hard Disk	43R2019		ThinkPad Business Topload Case		43R2476									
USB Port Replicator with Digital Video	45K1610		ThinkPad Business Backpack		43R2482									
ThinkPad Convertible Monitor Stand	40Y7620		ThinkVision® L2240p Wide 22" Monitor		4422HB6									
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008		ThinkVision L2440x Wide 24" Monitor		4421HB2									
Other accessories on O-SL400 sheet														

See footnotes for important warranty information  
US models announced July 15 or July 29, 2008  
US models withdrawn effective September 2008 or September 2009

• Intel Centrino® 2 processor technology

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(CAY1-2) September 2009

# ThinkPad® SL400c 4413 (GMA) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Screen era	Cam-Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB	Blue-tooth	Finger print reader	Bat-tery Pre-load	Avail date
4413-23U	T5870	2.00	2GB	14.1"	WXGA LED	Glossy	None	GMA	160G 5400	DVD±RW	* Intel 5100 <sup>28</sup>	None	None	None	Fing 6	Bus 32	Aug 09
4413-27U	P8700	2.53	2GB	14.1"	WXGA LED	Glossy	None	GMA	250G 5400	DVD±RW	† Intel 5100	None	None	None	Fing 6	Bus 32	Aug 09

- Entry price point ThinkPad notebooks available for bid to relationship accounts
- These models have an depot repair service 3-year limited warranty

Processor	<b>Intel® Core™ 2 Duo processor T5870</b> with dual-core, 800MHz system bus, and 2MB L2 cache or <b>Intel Core 2 Duo processor P8700</b> with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® Vista® Business 32 ↳ Vista Basic logo
Memory	<b>2GB</b> std / 4GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm) or <b>250GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display Camera	<b>14.1"</b> (358.1mm) <b>WXGA (1280x800) color, VibrantView</b> (glossy), <b>LED backlight</b> , high brightness 680 nits, 16:10 aspect ratio, 300:1 contrast ratio None	
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GM45, HDMI port supporting HDCP to output protected content; <i>Max external resolution:</i> 2048x1536@75Hz (VGA); 1920x1080 (HDMI)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	<i>6-cell 14.1W"</i> (WxDxH): 13.2" x 9.7" x 1.34–1.46"; 336mm x 247mm x 34–37mm <i>6-cell:</i> starting at 5.5 lb (2.5kg) black scratch-resistant ABS plastic, high-gloss top cover Lithium Ion <b>6-cell</b> <i>6-cell:</i> up to 4.1 hr; <i>9-cell:</i> up to 6 hr	
Chipset	<b>Mobile Intel GM45 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O)	
ExpressCard Multicard Reader PC Card Smart Card Read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Mini PCI Express Intel 5100 <sup>28</sup> WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader Limited warranty <sup>12</sup>	Three Mini PCI Express slots 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None None None 56K V.92 <sup>6</sup> modem None Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None Fingerprint reader on palm rest, swipe sensor 3-years/1-yr battery - depot repair service / service upgrades <sup>22</sup> available	ThinkPlus™.22 3-year LOR <sup>24</sup> 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>

See footnotes for important warranty information  
US models announced August 4, 2009  
US models withdrawn effective April 2010

\* Intel Centrino® processor technology  
† Intel Centrino 2 processor technology

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<b>Memory</b>		
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann 01/05/06
1GB PC2-5300 DDR2 SODIMM (25-Pack)	51J0502	ann 03/17/09
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann 11/28/06
2GB PC2-5300 DDR2 SODIMM (25-Pack)	51J0548	ann 03/17/09
<b>Storage and removable storage</b>		
SL 320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3405	ann 07/15/08
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10
<b>Wireless WAN (Mini PCI Express)</b>		
<i>Only WWAN upgradable models:</i>		
Verizon® WWAN UNDP Broadband Mini PCIe	43R9151	ann 08/05/08
AT&T® WWAN HSPA Broadband Mini PCIe	43R9152	ann 08/26/08
<b>ThinkPad Expansion</b>		
Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09
USB Port Replicator with Digital Video	45K1610	ann 07/28/09
<b>Keyboard</b>		
TrackPoint Cap Collection	73P2698	ann 12/16/03
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
UltraSlim Wireless Keyboard and Mouse <sup>52</sup>	57Y4700	ann 09/15/09
<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.		
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Preferred Pro USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09
<b>Mouse</b>		
Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08
<b>Security</b>		
Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06
ExpressCard Gemplus Smart Card Reader <sup>47</sup>	41N3043	ann 06/27/06
<sup>47</sup> Requires ExpressCard slot		
<b>Multimedia</b>		
ThinkPad In-Ear Headphones	57Y4488	ann 01/07/10

<b>Batteries</b>		
ThinkPad Battery 41+ (6-cell)	40Y6799	ann 01/05/06
ThinkPad Battery 41++ (9-cell)	40Y6797	ann 09/20/05
ThinkPad External Battery Charger <sup>44</sup>	40Y7625	ann 09/20/05
<sup>44</sup> Requires the <i>ThinkPad 90W AC Adapter 40Y7659</i> or the adapter provided with the system.		
More information at <a href="http://www.lenovo.com/alldaycomputing">www.lenovo.com/alldaycomputing</a>		
ThinkPad 65W AC Adapter <sup>45</sup>	40Y7696	
<sup>45</sup> Only compatible with the integrated graphics models.		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
90W UltraSlim AC/DC Combo Adapter	41R4493	ann 09/22/09
More info at <a href="http://www.lenovo.com/support/poweradapters">www.lenovo.com/support/poweradapters</a>		
<i>Charging tips for 90W UltraSlim AC/DC Combo Adapter 41R4493</i>		
•Palm device charge tip (L7)	41R4315	ann 12/18/07
•Blackberry charge tip (L8a)	41R4478	ann 12/18/07
•iPod and iPhone Charge Tip (L10a)	41R4481	ann 12/18/07
•Generic Micro USB charge tip (L18)	41R4490	ann 01/06/09
More information at <a href="http://www.lenovopowertips.com">www.lenovopowertips.com</a>		
<b>Carrying Cases</b>		
<i>Up to 14" widescreen models:</i>		
ThinkPad 14W Case Sleeve	57Y4294	ann 03/16/10
<i>Up to 15.4" widescreen models:</i>		
ThinkPad 15W Case Sleeve	51J0477	ann 08/18/09
Lenovo Business Messenger Case	51J0475	ann 08/18/09
Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance Backpack	41U5254	ann 05/01/07
Checkpoint Friendly Business Topload Case	51J0418	ann 05/05/09
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08
<i>Up to 15.6" widescreen models:</i>		
Wenger Backpack for Lenovo	57Y4271	ann 01/07/10
Wenger Slim Case for Lenovo	57Y4272	ann 01/07/10
Wenger Deluxe Slim Case for Lenovo	57Y4273	ann 01/07/10
Lenovo luxury cases at <a href="http://www.lenovoluxurycases.com">www.lenovoluxurycases.com</a>		
<b>Monitors</b>		
ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
<b>Monitor Accessories<sup>46</sup></b>		
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09
Radial Arm	19K4464	ann 05/05/00
<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.		
More information at <a href="http://www.lenovo.com/support/monitoraccessories">www.lenovo.com/support/monitoraccessories</a>		
For more information on ThinkPad SL accessories, please visit: <a href="http://www.lenovo.com/support/accessories">www.lenovo.com/support/accessories</a> <a href="http://www.lenovo.com/support/notebookaccessories">www.lenovo.com/support/notebookaccessories</a> <a href="http://www.lenovo.com/support/security">www.lenovo.com/support/security</a>		
Other accessories at <a href="http://www.lenovo.com/accessories">www.lenovo.com/accessories</a> Accessories Guide pdf at <a href="http://www.lenovo.com/accessoriesguide">www.lenovo.com/accessoriesguide</a>		

ThinkPad®



Lenovo® ThinkPad SL410



Lenovo ThinkPad SL410



Lenovo ThinkPad SL410



Lenovo ThinkPad SL410



Lenovo ThinkPad SL410 buttons



Lenovo ThinkPad SL410 lights

**ThinkPad® SL410 2842 (GMA) - TopS (XP with Win 7 License) - withdrawn** *Personal Systems Reference (PSREF)*

Type-model	Processor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Finger print	Bat-tery cells	Pre-load	Avail date
2842-5GU	T5870	2.00	2GB	14.0" HD	LED	Glossy		GMA	160G 5400	DVD±RW	* Intel 5100 <sup>28</sup>	None		6	XP Pro	Oct 09
2842-5HU	T5870	2.00	3GB	14.0" HD	LED	Glossy	2.0M	GMA	250G 5400	DVD±RW	* Intel 5100	None		6	XP Pro	Oct 09
2842-5JU	T6670	2.20	4GB	14.0" HD	LED	Glossy	2.0M	GMA	320G 5400	DVD±RW	* Intel 5100	None	Blue Fing	6	XP Pro	Oct 09

• *These small and medium business (SMB) models are part of the US TopSeller™ Program*

Processor	<b>Intel® Core™ 2 Duo processor T5870 or T6670 with dual-core,</b> 800MHz system bus, and 2MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32
Memory	<b>2GB, 3GB or 4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm), <b>250GB</b> (5400 rpm), or <b>320GB</b> (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display Camera	<b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GM45, HDMI port supporting HDCP to output protected content; <i>Max external resolution:</i> 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminated power button	
Lighting FX		Supports ThinkVantage® technologies
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	<i>4/6-cell 14.0W" (WxDxH):</i> 13.54" x 9.17" x 1.26–1.42"; 344mm x 233mm x 32–36mm <i>4-cell:</i> starting at 4.59 lb (2.08kg); <i>6-cell:</i> starting at 5.1 lb (2.3kg) ThinkPad Matte Black Scratch-resistant ABS plastic Lithium Ion <b>6-cell</b> <i>6-cell:</i> up to 4.0 hr; <i>9-cell:</i> up to 6 hr	65-watt (GMA graphics) AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Chipset	<b>Mobile Intel GM45 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752)	
ExpressCard Multicard Reader PC Card Smart Card Read Ports	One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	ThinkPlus™, 22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976
Mini PCI Express Intel 5100 <sup>28</sup> WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	One Mini PCI Express slot 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None None <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek RTL8111DL Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> Fingerprint reader on palm rest, swipe sensor	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information \* Intel Centrino® processor technology  
US models announced October 22, 2009  
US models withdrawn effective February or October 2010

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(JAD1-2) October 2010

# ThinkPad® SL410 2842 (GMA) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Camera	Integrated graphics	Disk SATA GB <sup>3</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Blue-tooth	Finger print reader	Battery cells	Preload	Avail date
2842-F7U	T6570	2.10	2GB	14.0" HD	LED	Glossy	2.0M	GMA	250G 5400	DVD±RW	* Intel 1000	None			6	Pro 32	Jan 10
2842-F8U	T6570	2.10	3GB	14.0" HD	LED	Glossy	2.0M	GMA	320G 7200	DVD±RW	* Intel 1000	None			6	Pro 32	Jan 10
2842-F9U	T6670	2.20	4GB	14.0" HD	LED	Glossy	2.0M	GMA	320G 7200	DVD±RW	* Intel 1000	None	Blue	Fing	6	Pro 64	Jan 10
2842-K3U	T6670	2.20	2GB	14.0" HD	LED	Glossy	0.3M	GMA	250G 5400	DVD±RW	* Intel 1000	None			6	Pro 64	Sep 10
2842-K4U	T6670	2.20	3GB	14.0" HD	LED	Glossy	0.3M	GMA	500G 7200	DVD±RW	* Intel 1000	None			6	Pro 64	Sep 10

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

Processor	Intel® Core™ 2 Duo processor T6570 or T6670 with dual-core, 800MHz system bus, and 2MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64
Memory	2GB, 3GB, or 4GB std / 8GB max <sup>7</sup> / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	Preloaded applications <sup>14</sup> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Adobe® Reader® • Adobe Flash® Player • Roxio® Creator® Business Edition (DVD±RW)
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 250GB <sup>8</sup> (5400 rpm), 320GB (7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	Supports ThinkVantage® technologies
Widescreen display Camera	14.0" (355mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus	65-watt (GMA graphics) AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDCP to output protected content; <i>Max external resolution: 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)</i>	ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968
Keyboard TrackPoint® Touch pad	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch	ThinkPlus 2-year LOR 9x5 NBD 45K5969
Lighting FX	Illuminated power button	ThinkPlus 3-year LOR 9x5 NBD 45K5970
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	4/6-cell 14.0W" (WxDxH): 13.54" x 9.17" x 1.26–1.42"; 344mm x 233mm x 32–36mm 4-cell: starting at 4.59 lb (2.08kg); 6-cell: starting at 5.1 lb (2.3kg) ThinkPad Matte Black Scratch-resistant ABS plastic Lithium Ion 6-cell 6-cell: up to 4.0 hr; 9-cell: up to 6 hr	ThinkPlus 4-year LOR 9x5 NBD 45K5973
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752) One slot (ExpressCard/34)	ThinkPlus 5-year LOR 9x5 NBD 45K5975
ExpressCard Multicard Reader PC Card Smart Card Read Ports	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	ThinkPlus 2-year P&L P/U Depot 45K5971
Mini PCI Express Intel 1000 WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	One Mini PCI Express slot 11b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2 None None <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek RTL8111DL Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole	ThinkPlus 3-year P&L P/U Depot 45K5972
Security Security chip Fingerprint reader	None None <i>Some:</i> Fingerprint reader on palm rest, swipe sensor	ThinkPlus 4-year P&L P/U Depot 45K5974
Limited warranty <sup>12</sup>	1-year - depot repair service / service upgrades <sup>22</sup> available	ThinkPlus 5-year P&L P/U Depot 45K5976
See footnotes for important warranty information * Intel Centrino® processor technology		Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>

US models announced December 15, 2009 or September 28, 2010  
US models withdrawn effective December 2010, or January or October, 2011

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# ThinkPad® SL410 2874 (GMA) - TopSeller (Celeron) - Win 7 - withdrawn

Personal Systems Reference (PSREF)

Type-model	Celeron processor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Battery tooth cells	Preload	Avail date	
2874-32U	Cel T3000	1.80	2GB	14.0" HD	LED	Glossy		GMA	160G 5400	DVD±RW	11n <sup>28</sup>	None	None	6	Home P	Oct 09
2874-7RU	Cel T3100	1.90	2GB	14.0" HD	LED	Glossy	2.0M	GMA	250G 5400	DVD±RW	Intel 1000 <sup>28</sup>	None	None	6	Home P	Jan 10

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **A comprehensive computing solution for small and medium business**
- **Balanced between serious business computing and powerful multimedia features**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Processor	<b>Intel® Celeron® Processor T3000 or T3100 with dual-core,</b> 800MHz system bus, and 1MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64
Memory	<b>2GB</b> std / 4GB max <sup>7</sup> / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm) or <b>250GB</b> (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
Widescreen display	<b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus	
Camera	<b>Intel Graphics Media Accelerator 4500M (GMA 4500M)</b> , in GL40, HDMI port supporting HDCP to output protected content; <i>Max external resolution:</i> 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)	Supports ThinkVantage® technologies
Integrated graphics		
Keyboard	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows and App keys	65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass	
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch	ThinkPlus™. <sup>22</sup> 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976
Lighting FX	Illuminated power button	
Dimensions <sup>3</sup>	<i>4/6-cell 14.0W" (WxDxH):</i> 13.54" x 9.17" x 1.26–1.42"; 344mm x 233mm x 32–36mm	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Weight <sup>2</sup>	<i>4-cell:</i> starting at 4.59 lb (2.08kg); <i>6-cell:</i> starting at 5.1 lb (2.3kg)	
Case color	ThinkPad Matte Black	
Case material	Scratch-resistant ABS plastic	
Battery - type <sup>37</sup>	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>6-cell:</i> up to 4.0 hr; <i>9-cell:</i> up to 6 hr	
Chipset	<b>Mobile Intel GL40 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752)	
ExpressCard	One slot (ExpressCard/34)	
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)	
PC Card	None	
Smart Card Read	None	
Ports	Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
Mini PCI Express	One Mini PCI Express slot <i>Some:</i> 11b/g/n wireless <sup>4</sup> , Mini-PCIe Adapter II	
11n <sup>28</sup>	<i>Some:</i> 11b/g/n wireless, Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2	
Intel 1000 <sup>28</sup>	None	
WWAN upg	None	
Modem	None	
Bluetooth™	None	
Ethernet	Realtek® RTL8103EL 10/100 Network Connection, PHY, PCIe x1	
Intel AMT	None	
Audio support	High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	None	
Fingerprint reader	None	
Limited warranty <sup>12</sup> <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available		

See footnotes for important warranty information  
 US models announced October 22 or December 15, 2009  
 US models withdrawn effective December 2010 or January 2011

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

<b>Storage and removable storage</b>		
SL410/510 500GB Disk SATA 3G/s (5400 rpm)	43N3422	ann 10/22/09
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

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

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

<b>Mouse</b>		
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08
Lenovo Optical Mouse A6010 (black)	57Y6255	
Lenovo Mini Optical Mouse M20B	55Y2091	
Lenovo Wireless Mouse N30B (black)	55Y9360	

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

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

<b>Modem</b>		
USB 2.0 Lenovo Modem	43R1814	ann 02/26/08

<b>Batteries<sup>37</sup></b>		
ThinkPad Battery 25 (4-cell)	51J0498	ann 10/22/09
ThinkPad Battery 25+ (6-cell)	51J0499	ann 10/22/09
ThinkPad Battery 25++ (9-cell)	51J0500	ann 10/22/09
ThinkPad External Battery Charger <sup>44</sup>	40Y7625	ann 09/20/05
<sup>44</sup> Requires the <i>ThinkPad 90W AC Adapter 40Y7659</i> or the adapter provided with the system.		

More information at [www.lenovo.com/alldaycomputing](http://www.lenovo.com/alldaycomputing)

ThinkPad 65W AC Adapter <sup>45</sup>	40Y7696	
<sup>45</sup> Only compatible with the integrated graphics models.		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
ThinkPad 65W AC Adapter with USB Hub	57Y4600	ann 09/07/10
90W Ultralim AC/DC Combo Adapter	41R4493	ann 09/22/09

More info at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

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

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

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

**Carrying Cases**

*Up to 14" widescreen models:*

ThinkPad 14W Case Sleeve	57Y4294	ann 03/16/10
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*Up to 15.4" widescreen models:*

ThinkPad 15W Case Sleeve	51J0477	ann 08/18/09
Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance Backpack	41U5254	ann 05/01/07
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08

*Up to 15.6" widescreen models:*

Wenger Backpack for Lenovo	57Y4271	ann 01/07/10
Wenger Slim Case for Lenovo	57Y4273	ann 01/07/10
Wenger Deluxe Slim Case for Lenovo	57Y4272	ann 01/07/10

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

**Monitors**

ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2321x Wide 23" Monitor	4014HB6	ann 06/10/10
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

**Monitor Accessories<sup>46</sup>**

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:  
[www.lenovo.com/accessories](http://www.lenovo.com/accessories)  
 Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)  
 Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)  
 Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)  
 An Options Compatibility Configurator for Lenovo systems

ThinkPad®



Lenovo® ThinkPad SL500



Lenovo ThinkPad SL500



Lenovo ThinkPad SL500



Lenovo ThinkPad SL500



USB Port Replicator with Digital Video  
45K1610



ThinkPad 90W AC Adapter  
40Y7659

# ThinkPad® SL500 2746 (GMA) - TopSeller (Celeron) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Celeron processor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Cam-era	Inte-grated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat-tery Blue/tery Fing cells	Preload	Avail date	
2746-8XU	Cel 585	2.16	1GB	15.4" WXGA		Glossy	None	GMA	80G 5400	DVD±RW	11b/g <sup>32</sup>	WWAN upg	None	None	6	Home B	Aug08
2746-8YU	Cel 585	2.16	1GB	15.4" WXGA			None	GMA	160G 5400	DVD±RW	11b/g	WWAN upg	None	None	6	XP Pro	Aug08
2746-BKU	Cel T1600	1.66	1GB	15.4" WXGA			None	GMA	160G 5400	DVD±RW	11b/g	WWAN upg	None	None	6	XP Pro	Sep08
2746-9VU	Cel T1600	1.66	1GB	15.4" WXGA			None	GMA	160G 5400	DVD±RW	11b/g	WWAN upg	None	None	6	Home B	Dec08
2746-MGU	Cel T1600	1.66	1GB	15.4" WXGA LED			None	GMA	160G 5400	DVD±RW	11b/g		None	None	6	Home B	Mar09
2746-MHU	Cel T1600	1.66	1GB	15.4" WXGA LED			None	GMA	160G 5400	DVD±RW	11b/g		None	None	6	XP Pro	Mar09
2746-FEU	Cel T3000	1.80	2GB	15.4" WXGA			None	GMA	250G 5400	DVD±RW	11b/g		None	None	6	Home B	Jul 09

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **A comprehensive computing solution for small and medium business**
- **Balanced between serious business computing and powerful multimedia features**

Processor	Intel® Celeron® Processor 585 with single-core, 667MHz system bus, and 1MB L2 cache or Intel Celeron Processor T1600 with dual-core, 667MHz system bus, and 1MB L2 cache or Intel Celeron Processor T3000 with dual-core, 800MHz system bus, and 1MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business
Memory	1GB or 2GB std / 4GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	- Some: Genuine Windows Vista Home Basic 32 ◇ Vista models: Vista Basic logo
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 80GB <sup>8</sup> (5400 rpm), 160GB (5400 rpm) or 250GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	Preloaded applications <sup>14</sup> (all OSes; only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
Widescreen display	Some: 15.4" (391.2mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 15.4" (391.2mm) WXGA (1280x800) color, VibrantView (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 15.4" (391mm) WXGA (1280x800) color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 400:1 contrast ratio	
Camera	None	
Integrated graphics	Intel Graphics Media Accelerator 4500M (GMA 4500M), in GL40, HDMI port supporting HDCP to output protected content Max external resolution: 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys, Windows and App keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.46–1.53"; 358 x 260mm x 37–39mm 6-cell: starting at 6.3 lb (2.9kg) Black Scratch-resistant ABS plastic, high-gloss top cover Lithium Ion 6-cell 6-cell: up to 3.6 hr; 9-cell: up to 5.5 hr	65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Chipset	Mobile Intel GL40 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O)	
ExpressCard/54 Multicard reader PC Card Smart Card read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976
Mini PCI Express 11b/g <sup>32</sup> WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11b/g wireless <sup>4</sup> , ThinkPad 11b/g Mini PCIe Adapter III, Atheros AR5007EG Some: Wireless WAN upgradable, optional AT&T® (43R9152) None None None 56K V.92 <sup>6</sup> modem None Realtek® RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Limited warranty <sup>12</sup> 1-year - depot repair service / service upgrades <sup>22</sup> available		

See footnotes for important warranty information  
US models announced August 20, September 30, December 16, 2008, March 31, 2009 or July 7, 2009  
US models withdrawn effective September 2009 or April 2010

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Type-model	Proc- essor	GHz	Memory	Wide- screen display	Screen type	Cam- era	Inte- grated graphics	Disk SATA GB <sup>8</sup>	SATA rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print Blue- tooth	Bat- tery cells	Preload	Avail date
2746-3UU	T5670	1.80	2GB	15.4"	WXGA		GMA 250G	5400	DVD±RW	* Intel 5100	28	AT&T <sup>23</sup>		Fing	6	Bus 32	July 08
2746-3VU	T5670	1.80	2GB	15.4"	WXGA	Glossy	Cam	GMA 250G	5400	DVD±RW	* Intel 5100	AT&T		Fing Blue	6	Home P	July 08
2746-3WU	T5670	1.80	2GB	15.4"	WXGA		Cam	GMA 160G	5400	DVD±RW	* Intel 5100	AT&T		Fing Blue	6	Bus 32	July 08
2746-3XU	T5670	1.80	2GB	15.4"	WXGA			GMA 250G	5400	DVD±RW	* Intel 5100	WWAN upg		Fing	6	Bus 32	July 08
2746-3YU	T5670	1.80	2GB	15.4"	WXGA	Glossy	Cam	GMA 250G	5400	DVD±RW	* Intel 5100	WWAN upg		Fing Blue	6	Home P	July 08
2746-3ZU	T5670	1.80	2GB	15.4"	WXGA		Cam	GMA 160G	5400	DVD±RW	* Intel 5100	WWAN upg		Fing Blue	6	Bus 32	July 08
2746-3NU	P8400	2.26	1GB	15.4"	WXGA			GMA 160G	5400	Combo	∴ Intel 5100	AT&T		Fing	6	Bus 32	July 08
2746-3PU	P8400	2.26	2GB	15.4"	WXGA			GMA 160G	5400	DVD±RW	∴ Intel 5100	AT&T		Fing	6	Bus 32	July 08
2746-3RU	P8400	2.26	1GB	15.4"	WXGA			GMA 160G	5400	Combo	∴ Intel 5100	WWAN upg		Fing	6	Bus 32	July 08
2746-3SU	P8400	2.26	2GB	15.4"	WXGA			GMA 160G	5400	DVD±RW	∴ Intel 5100	WWAN upg		Fing	6	Bus 32	July 08
2746-3YU	P8600	2.40	2GB	15.4"	WXGA		Cam	GMA 250G	5400	DVD±RW	* Intel 5100	AT&T		Fing Blue	6	Bus 32	July 08
2746-26U	P8600	2.40	2GB	15.4"	WXGA		Cam	GMA 160G	5400	DVD±RW	∴ Intel 5100	WWAN upg	2GB Turbo	Fing Blue	6	Bus 32	July 08
2746-6VU	P8400	2.26	2GB	15.4"	WXGA			GMA 160G	5400	DVD±RW	∴ Intel 5100	AT&T		Fing	6	XP Pro	Aug 08
2746-6XU	P8400	2.26	2GB	15.4"	WXGA			GMA 160G	5400	DVD±RW	∴ Intel 5100	WWAN upg		Fing	6	XP Pro	Aug 08
2746-6ZU	T5670	1.80	2GB	15.4"	WXGA			GMA 250G	5400	DVD±RW	* Intel 5100	WWAN upg		Fing	6	XP Pro	Aug 08
2746-72U	T5670	1.80	2GB	15.4"	WXGA		Cam	GMA 160G	5400	DVD±RW	* Intel 5100	WWAN upg		Fing Blue	6	XP Pro	Aug 08
2746-73U	T5670	1.80	1GB	15.4"	WXGA			GMA 160G	5400	DVD±RW	* Intel 5100	WWAN upg			6	XP Pro	Aug 08
2746-7DU	P8600	2.40	2GB	15.4"	WXGA		Cam	GMA 160G	5400	DVD±RW	∴ Intel 5100	WWAN upg		Fing Blue	6	XP Pro	Aug 08

• These small and medium business (SMB) models are part of the US TopSeller™ Program

Processor	Intel® Core™ 2 Duo processor T5670 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core 2 Duo processor P8400 or P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business) - Some: Genuine Windows Vista Home Premium 32 - Some: Genuine Windows Vista Business 32 ∠ 1GB Vista models: Vista Basic logo ∠ 2GB Vista models: Vista Premium logo
Memory	1GB or 2GB 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	
SATA Combo SATA DVD±RW SATA disk	Some: DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in Some: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB <sup>8</sup> (5400 rpm) or 250GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	Some: 15.4" (391.2mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 15.4" (391.2mm) WXGA (1280x800) color, VibrantView (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	
Camera	Some: camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDCP to output protected content Max external resolution: 2048x1536@75Hz (DB-15 port); 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case Battery - type Battery - life <sup>10</sup>	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.46–1.53"; 358 x 260mm x 37–39mm 6-cell: starting at 6.3 lb (2.9kg) Color: black; Material: scratch-resistant ABS plastic, high-gloss top cover Lithium Ion 6-cell 6-cell: up to 3.6 hr; 9-cell: up to 5.5 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (IT8752 Super I/O)	
ExpressCard slot Multicard Reader PC Card Std slot Smart Card Read Ports	One ExpressCard/34 or ExpressCard/54 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express Intel 5100 <sup>28</sup> WWAN upg AT&T <sup>23</sup>  2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: Wireless WAN upgradable, optional AT&T® (43R9152) Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T® Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 <sup>6</sup> modem Some: Bluetooth 2.0 wireless, LED indicator Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip	
Limited warranty <sup>12</sup>	1-year - EasyServ™ <sup>19</sup> depot repair service / service upgrades <sup>22</sup> available	ThinkPlus™, 22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information  
US models announced July 15 or 29, 2008  
US models withdrawn effective September 2008, January or September 2009

\* Intel Centrino® processor technology  
∠ Intel Centrino 2 processor technology

# ThinkPad® SL500 2746 (GMA) - TopSeller (September 2008) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Camera	Integrated graphics	Disk SATA GB <sup>3</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Fingerprint reader	Bluetooth	Battery cells	Pre-load	Availability date
2746-6DU	T5670	1.80	1GB	15.4"	WXGA		GMA	80GB 5400	DVD±RW	* Intel 5100 <sup>28</sup>	WWAN upg	None			6 XP Pro		Sep08
2746-6EU	P7370	2.00	2GB	15.4"	WXGA		GMA	250G 5400	DVD±RW	† Intel 5100	WWAN upg	None	Fing		6 XP Pro		Sep08
2746-6JU	T5870	2.00	2GB	15.4"	WXGA	Cam	GMA	250G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Fing	Blue	6 XP Pro		Oct 08
2746-9LU	P7370	2.00	3GB	15.4"	WXGA	Cam	GMA	250G 5400	DVD±RW	‡ Intel 5100	WWAN upg	None	Fing	Blue	6 XP Pro		Nov08
2746-9MUT	T5870	2.00	1GB	15.4"	WXGA		GMA	160G 5400	DVD±RW	* Intel 5100	WWAN upg	None			6 XP Pro		Dec08
2746-9NU	T5870	2.00	2GB	15.4"	WXGA		GMA	250G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Fing		6 XP Pro		Dec08
2746-9PU	T5870	2.00	2GB	15.4"	WXGA		GMA	250G 5400	DVD±RW	* Intel 5100	WWAN upg	None	Fing		6 Bus 32		Dec08
2746-9QU	T5870	2.00	3GB	15.4"	WXGA	Glossy Cam	GMA	250G 5400	DVD±RW	* Intel 5100	WWAN upg	None		Blue	6 Home P		Dec08
2746-ASU	P8600	2.40	2GB	15.4"	WXGA	Cam	GMA	250G 5400	DVD±RW	‡ Intel 5100	WWAN upg	None	Fing		6 Bus 32		Dec08
2746-H2U	P8600	2.40	2GB	15.4"	WXGA		GMA	160G 5400	DVD±RW	‡ WiMAX	WWAN upg	None	Fing		6 Bus 32		Jan 09
2746-H3U	P8600	2.40	3GB	15.4"	WXGA	Cam	GMA	160G 5400	DVD±RW	‡ Intel 5100	WWAN upg	None	Fing	Blue	6 XP Pro		Jan 09

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- A comprehensive computing solution for small and medium business

Processor	Intel® Core™ 2 Duo processor T5670 or T5870 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core 2 Duo processor P7370 or P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business - Some: Genuine Windows Vista Home Premium 32 - Some: Genuine Windows Vista Business 32 ◇ ASU model: Vista Premium logo ◇ Other Vista models: Vista Basic logo
Memory	1GB, 2GB, or 3GB 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	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 80GB <sup>8</sup> (5400 rpm), 160GB (5400 rpm), or 250GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	<i>Some:</i> 15.4" (391.2mm) WXGA (1280x800) color, VibrantView (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 15.4" (391.2mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	Preloaded applications <sup>14</sup> (all OSes; only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader® • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
Camera	<i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDCP to output protected content <i>Max external resolution:</i> 2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.46–1.53"; 358 x 260mm x 37–39mm 6-cell: starting at 6.3 lb (2.9kg) Black Scratch-resistant ABS plastic, high-gloss top cover Lithium Ion 6-cell 6-cell: up to 3.6 hr; 9-cell: up to 5.5 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O)	65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
ExpressCard/54 Multicard reader PC Card Smart Card read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick PRO™, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976
Mini PCI Express Intel 5100 <sup>28</sup> WiMAX WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n and WiMAX wireless <sup>4</sup> , Mini PCIe adap, Intel WiMAX/WiFi Link 5150, 1x2 (300Mbps) WiFi + 1x2 WiMAX (Echo Peak) Wireless WAN upgradable, optional AT&T® (43R9152) None None 56K V.92 <sup>6</sup> modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> Fingerprint reader on palm rest, swipe sensor	Post-warranty annual maintenance agreements at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a>
Limited warranty <sup>12</sup>	1-year - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information

US models announced September 30, October 7,

November 25, December 16, 2008, or Jan 6, 2009

US models withdrawn effective January or September 2009, or April 2010

\* Intel Centrino® processor technology

‡ Intel Centrino 2 processor technology

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(TAR1-4) April 2010

# ThinkPad® SL500 2746 (GMA) - TopSeller (April 2009) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	CCFL or LED	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Fingerprint reader	Bluetooth	Battery cells	Pre-load	Whorse (W) Gbl (G) Educ	Availability date
2746-MJU	T5870	2.00	2GB	15.4" WXGA	LED		GMA	160G 5400	DVD±RW	* Intel 5100 <sup>28</sup>				6	XP Pro		Mar 09
2746-MKU	T5870	2.00	3GB	15.4" WXGA	LED	Cam	GMA	250G 5400	DVD±RW	* Intel 5100			Blue	6	Home P		Mar 09
2746-MLU	T5870	2.00	3GB	15.4" WXGA	LED		GMA	250G 5400	DVD±RW	* Intel 5100		Fing		6	XP Pro		Mar 09
2746-MMU	T5870	2.00	3GB	15.4" WXGA	LED		GMA	250G 5400	DVD±RW	* Intel 5100	AT&T <sup>23</sup>	Fing		6	Bus32		Mar 09
2746-MNU	T6570	2.10	3GB	15.4" WXGA	LED	Cam	GMA	320G 5400	DVD±RW	* Intel 5100		Fing	Blue	6	XP Pro		Mar 09
2746-MPU	P8600	2.40	3GB	15.4" WXGA	LED	Cam	GMA	250G 5400	DVD±RW	* Intel 5100		Fing	Blue	6	XP Pro		Mar 09
2746-N9U	T6570	2.10	2GB	15.4" WXGA	LED	Cam	GMA	250G 5400	DVD±RW	* Intel 5100		Fing	Blue	6	Ult 32	Educ	Apr 09
2746-EKU	T5870	2.00	3GB	15.4" WXGA	LED	Cam	GMA	250G 5400	DVD±RW	* Intel 5100		Fing		6	XP Pro		Jul 09
2746-ELU	P7570	2.26	3GB	15.4" WXGA	LED	Cam	GMA	320G 5400	DVD±RW	* Intel 5100		Fing	Blue	6	XP Pro		Jul 09
2746-NDU	T5870	2.00	2GB	15.4" WXGA			GMA	160G 5400	DVD±RW	* Intel 5100				6	XP Pro		Jul 09

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- A comprehensive computing solution for small and medium business

Processor	Intel Core™ 2 Duo processor T5870 or T6570 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core 2 Duo processor P7570 or P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache	Preloaded operating system <sup>20</sup> - Some: Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business - Some: Genuine Windows Vista Home Premium 32 - Some: Genuine Windows Vista Business 32 - Some: Genuine Windows Vista Ultimate 32 ♦ Vista models: Vista Basic logo
Memory	2GB or 3GB 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> (all OSes; only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB <sup>8</sup> (5400 rpm), 250GB (5400 rpm), or 320GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	Some: 15.4" (391.2mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 15.4" (391.2mm) WXGA (1280x800) color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	
Camera	Some: camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDCP to output protected content Max external resolution: 2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.46–1.53"; 358 x 260mm x 37–39mm 6-cell: starting at 6.3 lb (2.9kg) Black Scratch-resistant ABS plastic, high-gloss top cover Lithium Ion 6-cell 6-cell: up to 3.6 hr; 9-cell: up to 5.5 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O) One slot (ExpressCard/34, ExpressCard/54)	65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
ExpressCard/54 Multicard reader PC Card Smart Card read Ports	7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976
Mini PCI Express Intel 5100 <sup>28</sup> AT&T <sup>23</sup>	Three Mini PCI Express slots 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T®	
2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	None None 56K V.92 <sup>6</sup> modem Some: Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None Some: Fingerprint reader on palm rest, swipe sensor	Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>
Limited warranty <sup>12</sup>	1-year - depot repair service / service upgrades <sup>22</sup> available	

See footnotes for important warranty information  
US models announced Mar 31, April 7, or July 7, 2009  
US models withdrawn effective April 2010

\* Intel Centrino® processor technology  
♦ Intel Centrino 2 processor technology

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(TAR1-5) April 2010

# ThinkPad® SL500 2746 (NVIDIA®) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Screen type	Cam-Discrete era graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery cells	Preload	Avail date
2746-3QU	P8400	2.26	2GB	15.4" WSXGA+		Cam 9300M	160G 5400	DVD±RW	Intel 5100 <sup>28</sup>	AT&T <sup>23</sup>		6	Bus 32	July 08
2746-3TU	P8400	2.26	2GB	15.4" WSXGA+		Cam 9300M	160G 5400	DVD±RW	Intel 5100	WWAN upg		6	Bus 32	July 08
2746-22U	P8400	2.26	2GB	15.4" WXGA	Glossy	Cam 9300M	160G 5400	DVD±RW	Intel 5100	AT&T		6	Bus 32	July 08
2746-24U	P8600	2.40	2GB	15.4" WSXGA+		Cam 9300M	320G 5400	DVD±RW	Intel 5100	AT&T	2GB Turbo	9	Bus 32	July 08
2746-25U	T9400	2.53	4GB	15.4" WSXGA+		Cam 9300M	320G 5400	BD burner	Intel 5100	AT&T	2GB Turbo	9	Ult 32	July 08
2746-6WU	P8400	2.26	2GB	15.4" WSXGA+		Cam 9300M	160G 5400	DVD±RW	Intel 5100	AT&T		6	XP Pro	Aug 08
2746-6YU	P8400	2.26	2GB	15.4" WSXGA+		Cam 9300M	160G 5400	DVD±RW	Intel 5100	WWAN upg		6	XP Pro	Aug 08
2746-H4U	P8600	2.40	2GB	15.4" WSXGA+		Cam 9300M	250G 5400	BD player	Intel 5100			6	XP Pro	Feb 09

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- A comprehensive computing solution for small and medium business

Processor	Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD boost, 1066MHz system bus; P8400/P8600: 3MB L2 cache; T9400: 6MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Some: Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business - Some: Genuine Windows Vista Business 32 - Some: Genuine Windows Vista Ultimate 32 ♦ Vista models: Vista Premium logo <b>Preloaded applications<sup>14</sup></b> (all OSes; only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
Memory	2GB 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	
SATA DVD±RW SATA BD burner SATA BD player SATA disk	<i>Some:</i> DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <i>Some:</i> Blu-ray™ burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <i>Some:</i> Blu-ray player, DVD burner, SATA 1.5Gb/s, 12.7mm, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm), <b>250GB<sup>8</sup></b> (5400), or <b>320GB<sup>8</sup></b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	<i>Some:</i> 15.4" (391.2mm) <b>WXGA (1280x800) color, VibrantView</b> (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 15.4" (391.2mm) <b>WSXGA+ (1680x1050) color</b> , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus	
Discrete graphics	<b>NVIDIA® GeForce 9300M</b> , PCI Express® x16, <b>256MB</b> memory, HDMI port supporting HDCP to output protected content; <i>Max external resolution:</i> 2048x1536@85Hz (DB-15 port); 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, ThinkPad logo	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.46–1.53"; 358 x 260mm x 37–39mm 6-cell: starting at 6.3 lb (2.9kg); 9-cell: starting at 6.7 lb (3.0kg) black scratch-resistant ABS plastic, high-gloss top cover Lithium Ion <b>6-cell</b> or <b>9-cell</b> 6-cell: up to 3 hr; 9-cell: up to 4.9 hr	
Chipset	<b>Mobile Intel PM45 Express Chipset</b> (Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O)	
ExpressCard Multicard Reader PC Card Smart Card Read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express Intel 5100 <sup>28</sup> WWAN upg AT&T <sup>23</sup>  2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support  Security Security chip Fingerprint reader Limited warranty <sup>12</sup>	Three Mini PCI Express slots 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> Wireless WAN upgradable, optional AT&T® (43R9152) <i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 <sup>6</sup> modem Bluetooth 2.1 wireless, LED indicator Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None Fingerprint reader on palm rest, swipe sensor <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	
	90-watt (NVIDIA) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976  Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>	

See footnotes for important warranty information      ♦ Intel Centrino® 2 processor technology  
 US models announced July 15 or July 29, 2008, or February 10, 2009  
 US models withdrawn effective September 2008, September 2009 or April 2010

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 (TAR1-2) April 2010



# ThinkPad® SL500c 4414 (GMA) - Celeron - withdrawn

Personal Systems Reference (PSREF)

Type-model	Celeron processor	GHz	Memory	Wide-screen display	Cam-era	Inte-grated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
4414-2MU	Cel T1600	1.66	2GB	15.4" WXGA	None	GMA	160G 5400	DVD±RW	11b/g	None	None	Fing	Blue	6	Bus 32	Aug09

- Entry price point ThinkPad notebooks available for bid to relationship accounts
- This model has an depot repair service 3-year limited warranty

Processor	Intel® Celeron® Processor T1600 with dual-core, 667MHz system bus, and 1MB L2 cache											<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® Vista® Business 32 ↕ Vista Basic logo  <b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)				
Memory	2GB std / 4GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available															
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB <sup>8</sup> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™															
Widescreen display Camera	15.4" (391.2mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio None															
Integrated graphics	Intel Graphics Media Accelerator 4500M (GMA 4500M), in GL40, HDMI port supporting HDCP to output protected content <i>Max external resolution:</i> 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)															
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys, Windows and App keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo															
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.46–1.53"; 358 x 260mm x 37–39mm 6-cell: starting at 6.3 lb (2.9kg) Black Scratch-resistant ABS plastic, high-gloss top cover Lithium Ion 6-cell 6-cell: up to 3.6 hr; 9-cell: up to 5.5 hr															
Chipset	Mobile Intel GL40 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O)															
ExpressCard/54 Multicard reader PC Card Smart Card read Ports	One slot (ExpressCard/34, ExpressCard/54) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)															
Mini PCI Express 11b/g <sup>32</sup> WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11b/g wireless <sup>4</sup> , ThinkPad 11b/g Mini PCIe Adapter III, Atheros AR5007EG None None None 56K V.92 <sup>6</sup> modem Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack															
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None Fingerprint reader on palm rest, swipe sensor															
Limited warranty <sup>12</sup> 3-years/1-yr battery - depot repair service / service upgrades <sup>22</sup> available													65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™.22 3-year LOR <sup>24</sup> 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at <a href="http://lenovo.com/thinkplus/warranty">lenovo.com/thinkplus/warranty</a>			

See footnotes for important warranty information  
 US model announced August 4, 2009  
 US model withdrawn effective April 2010

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 (TAR11C-2) April 2010

# ThinkPad® SL500c 4414 (GMA) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	CCFL or LED	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Finger print reader	Blue-tooth	Battery cells	Pre-load	Avail date
4414-25U	T5870	2.00	2GB	15.4" WXGA		None	GMA	160G 5400	DVD±RW	*Intel 5100 <sup>28</sup>	None	Fing	Blue	6	Bus 32	Aug 09
4414-29U	P8700	2.53	2GB	15.4" WXGA	LED	None	GMA	160G 5400	DVD±RW	‡Intel 5100	None	Fing	Blue	6	Bus 32	Aug 09

- **Entry price point ThinkPad notebooks available for bid to relationship accounts**
- **These models have an depot repair service 3-year limited warranty**

Processor	<b>Intel® Core™ 2 Duo processor T5870 with dual-core</b> , 800MHz system bus, and 2MB L2 cache or <b>Intel Core 2 Duo processor P8700 with dual-core</b> , Intel HD boost, 1066MHz system bus, and 3MB L2 cache										<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® Vista® Business 32 ◇ Vista Basic logo					
Memory	<b>2GB</b> std / 4GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo Care™ Tools • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • Lenovo System Toolbox • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)					
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™															
Widescreen display	<i>Some:</i> <b>15.4"</b> (391.2mm) <b>WXGA (1280x800) color</b> , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> <b>15.4"</b> (391.2mm) <b>WXGA (1280x800) color</b> , anti-glare, <b>LED backlight</b> , 200 nits, 16:10 aspect ratio, 300:1 contrast ratio															
Camera	None															
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GM45, HDMI port supporting HDCP to output protected content <i>Max external resolution:</i> 2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)															
Keyboard TrackPoint® Touch pad Lighting FX	6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo															
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	<i>6-cell 15.4W"</i> (WxDxH): 14.1" x 10.2" x 1.46–1.53"; 358 x 260mm x 37–39mm <i>6-cell:</i> starting at 6.3 lb (2.9kg) Black Scratch-resistant ABS plastic, high-gloss top cover Lithium Ion <b>6-cell</b> <i>6-cell:</i> up to 3.6 hr; <i>9-cell:</i> up to 5.5 hr															
Chipset	<b>Mobile Intel GM45 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752 Super I/O) One slot (ExpressCard/34, ExpressCard/54)															
ExpressCard/54 Multicard reader PC Card Smart Card read Ports	7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) None None Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)										65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378					
Mini PCI Express Intel 5100 <sup>28</sup> WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader Limited warranty <sup>12</sup>	Three Mini PCI Express slots 11a/b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None None None 56K V.92 <sup>6</sup> modem Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111C Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, CX20561-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None Fingerprint reader on palm rest, swipe sensor <b>3-years/1-yr battery</b> - depot repair service / service upgrades <sup>22</sup> available										ThinkPlus™.22 3-year LOR <sup>24</sup> 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>					

See footnotes for important warranty information  
US models announced August 4, 2009  
US models withdrawn effective April 2010

\* Intel Centrino® processor technology  
‡ Intel Centrino 2 processor technology

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<b>Memory</b>		
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann 01/05/06
1GB PC2-5300 DDR2 SODIMM (25-Pack)	51J0502	ann 03/17/09
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann 11/28/06
2GB PC2-5300 DDR2 SODIMM (25-Pack)	51J0548	ann 03/17/09

<b>Storage and removable storage</b>		
SL 320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3405	ann 07/15/08
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

<b>Wireless WAN (Mini PCI Express)</b>		
<i>Only WWAN upgradable models:</i>		
Verizon® WWAN UNDP Broadband Mini PCIe	43R9151	ann 08/05/08
AT&T® WWAN HSPA Broadband Mini PCIe	43R9152	ann 08/26/08

<b>ThinkPad Expansion</b>		
Lenovo® Essential Notebook Stand	45J9292	ann 05/12/09
USB Port Replicator with Digital Video	45K1610	ann 07/28/09

<b>Keyboard</b>		
TrackPoint Cap Collection	73P2698	ann 12/16/03
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse <sup>52</sup>	57Y4700	ann 09/15/09
<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.		
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Preferred Pro USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

<b>Mouse</b>		
Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08

<b>Security</b>		
Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06
ExpressCard Gemplus Smart Card Reader <sup>47</sup>	41N3043	ann 06/27/06
<sup>47</sup> Requires ExpressCard slot		

<b>Multimedia</b>		
ThinkPad In-Ear Headphones	57Y4488	ann 01/07/10

<b>Batteries</b>		
ThinkPad Battery 41+ (6-cell)	40Y6799	ann 01/05/06
ThinkPad Battery 41++ (9-cell)	40Y6797	ann 09/20/05
ThinkPad External Battery Charger <sup>44</sup>	40Y7625	ann 09/20/05
<sup>44</sup> Requires the <i>ThinkPad 90W AC Adapter 40Y7659</i> or the adapter provided with the system.		

More information at <a href="http://www.lenovo.com/alldaycomputing">www.lenovo.com/alldaycomputing</a>		
ThinkPad 65W AC Adapter <sup>45</sup>	40Y7696	ann 01/05/06
<sup>45</sup> Only compatible with the integrated graphics models.		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
90W Ultraslim AC/DC Combo Adapter	41R4493	ann 09/22/09

More info at <a href="http://www.lenovo.com/support/poweradapters">www.lenovo.com/support/poweradapters</a>		
<i>Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493</i>		
•Palm device charge tip (L7)	41R4315	ann 12/18/07
•BlackBerry charge tip (L8a)	41R4478	ann 12/18/07
•iPod and iPhone Charge Tip (L10a)	41R4481	ann 12/18/07
•Generic Micro USB charge tip (L18)	41R4490	ann 01/06/09

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

<b>Carrying Cases</b>		
<i>Up to 15.4" widescreen models:</i>		
ThinkPad 15W Case Sleeve	51J0477	ann 08/18/09
Lenovo Business Messenger Case	51J0475	ann 08/18/09
Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance Backpack	41U5254	ann 05/01/07
Checkpoint Friendly Business Topload Case	51J0418	ann 05/05/09
ThinkPad Business Topload Case	43R2476	ann 05/13/08
ThinkPad Business Backpack	43R2482	ann 05/13/08
ThinkPad Deluxe Expander Case	43R2478	ann 05/13/08
ThinkPad Executive Leather Case	43R2480	ann 05/13/08

<b>Monitors</b>		
ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

<b>Monitor Accessories<sup>46</sup></b>		
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09
Radial Arm	19K4464	ann 05/05/00
<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.		

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on ThinkPad SL accessories, please visit:  
[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)  
[www.lenovo.com/support/notebookaccessories](http://www.lenovo.com/support/notebookaccessories)  
[www.lenovo.com/support/security](http://www.lenovo.com/support/security)

Other accessories at [www.lenovo.com/accessories](http://www.lenovo.com/accessories)  
 Accessories Guide pdf at [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)



Lenovo® ThinkPad SL510



Lenovo ThinkPad SL510



Lenovo ThinkPad SL510



Lenovo ThinkPad SL510



Lenovo Essential Notebook Stand  
45J9292



ThinkPad SL510 Touchpad

**ThinkPad® SL510 2847 (GMA) - TopS (XP with Win 7 License) - withdrawn** *Personal Systems Reference (PSREF)*

Type-model	Processor	GHz	Memory	Wide-screen display	CCFL or LED	Camera	Integrated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Finger print reader	Battery cells	Preload	Avail date	
2847-2JU	T5870	2.00	2GB	15.6" HD	LED		GMA	160G 5400	DVD±RW	* Intel 5100 <sup>28</sup>			6	XP Pro	Oct 09	
2847-2MU	T5870	2.00	3GB	15.6" HD	LED	2.0M	GMA	250G 5400	DVD±RW	* Intel 5100			6	XP Pro	Oct 09	
2847-2NU	T5870	2.00	3GB	15.6" HD	LED	2.0M	GMA	250G 5400	DVD±RW	* Intel 5100	AT&T <sup>23</sup>		6	XP Pro	Oct 09	
2847-2PU	T6670	2.20	4GB	15.6" HD	LED	2.0M	GMA	320G 5400	DVD±RW	* Intel 5100		Blue	Fing	6	XP Pro	Oct 09
2847-9WU	T6570	2.10	3GB	15.6" HD	LED	2.0M	GMA	320G 7200	DVD±RW	* Intel 1000 <sup>28</sup>			6	XP Pro	Jan 10	
2847-3ZU	T6570	2.10	2GB	15.6" HD	LED	2.0M	GMA	250G 5400	DVD±RW	* Intel 1000			6	XP Pro	Jan 10	
2847-QJU	T6670	2.20	4GB	15.6" HD	LED	2.0M	GMA	320G 5400	DVD±RW	* Intel 1000		Blue	Fing	6	XP Pro	Oct 09

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **A comprehensive computing solution for small and medium business**
- **Balanced between serious business computing and powerful multimedia features**

Processor	<b>Intel® Core™ 2 Duo processor T5870, T6570, or T6670 with dual-core,</b> 800MHz system bus, and 2MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32  <b>Preloaded applications<sup>14</sup></b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Password Manager</li> <li>• ThinkVantage Power Manager</li> <li>• Fingerprint Software (fingerprint models)</li> <li>• ThinkVantage Toolbox</li> <li>• Skype™ for Windows</li> <li>• Microsoft Research AutoCollage Touch</li> <li>• Roxio® Creator® Business Edition (DVD±RW)</li> <li>• Roxio MyDVD® (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> </ul>
Memory	<b>2GB, 3GB, or 4GB</b> std / 8GB max <sup>7</sup> / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm), <b>250GB</b> (5400 rpm), or <b>320GB</b> (5400 or 7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	<b>15.6"</b> (395mm) <b>HD (1366x768) color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	<i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GM45, HDMI port supporting HDCP to output protected content <i>Max external resolution:</i> 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows and App keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch illuminated power button	
Lighting FX		
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	<i>4/6-cell 15.6W"</i> (WxDxH): 14.9" x 9.72" x 1.26–1.42"; 380 x 247mm x 32–36mm <i>4-cell:</i> starting at 5.17 lb (2.35kg); <i>6-cell:</i> starting at 5.64 lb (2.56kg) ThinkPad Matte Black Scratch-resistant ABS plastic Lithium Ion <b>6-cell</b> <i>6-cell:</i> up to 4.0 hr; <i>9-cell:</i> up to 6 hr	
Chipset	<b>Mobile Intel GM45 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752)	
ExpressCard Multicard reader PC Card Smart Card read Ports	One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
Mini PCI Express Intel 1000 <sup>28</sup> Intel 5100 <sup>28</sup> AT&T <sup>23</sup>	One or two Mini PCI Express slots <i>Some:</i> 11b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> 11a/b/g/n wireless, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T®	
Modem Bluetooth™ Ethernet Intel AMT Audio support	None <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None <i>Some:</i> Fingerprint reader on palm rest, swipe sensor	
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	
		Supports ThinkVantage® technologies  65-watt (GMA graphics) AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378  ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976  Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>

See footnotes for important warranty information \* Intel Centrino® processor technology  
 US models announced October 22 or December 15, 2009  
 US models withdrawn effective February or October 2010

# ThinkPad® SL510 2847 (GMA) - TopSeller (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

Type-model	proc- essor	GHz	Memory	Wide- screen display	CCFL or LED	Screen type	Cam- era	Inte- grated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Finger Blue- tooth reader	Bat- tery cells	Preload	Avail date
2847-2KU	T5870	2.00	2GB	15.6"	HD	LED		GMA	160G 5400	DVD±RW *	Intel 5100 <sup>28</sup>			6	Pro 32	Oct 09
2847-2LU	T5870	2.00	4GB	15.6"	HD	LED	2.0M	GMA	250G 5400	DVD±RW *	Intel 5100		Blue	6	Home P	Oct 09
2847-2QU	P8700	2.53	4GB	15.6"	HD	LED	2.0M	GMA	320G 5400	DVD±RW *	Intel 5100		Blue	6	Pro 64	Oct 09
2847-6GU	T6670	2.20	2GB	15.6"	HD	LED	2.0M	GMA	250G 5400	DVD±RW *	WiMAX			6	Pro 32	Nov 09
2847-6HU	T6670	2.20	3GB	15.6"	HD	LED	2.0M	GMA	250G 5400	DVD±RW *	Intel 5100	Verizon <sup>16</sup>		6	Pro 32	Nov 09
2847-9VU	T6570	2.10	4GB	15.6"	HD	LED	Glossy 2.0M	GMA	320G 7200	DVD±RW *	Intel 1000 <sup>28</sup>		Blue	6	Home P	Jan 10
2847-9YU	T6670	2.20	4GB	15.6"	HD	LED	2.0M	GMA	320G 7200	DVD±RW *	Intel 1000		Blue	6	Pro 64	Jan 10
2847-9UU	T6570	2.10	2GB	15.6"	HD	LED	2.0M	GMA	250G 5400	DVD±RW *	Intel 1000			6	Pro 32	Jan 10
2847-9XU	T6570	2.10	3GB	15.6"	HD	LED	2.0M	GMA	320G 7200	DVD±RW *	Intel 1000			6	Pro 32	Jan 10
2847-9ZU	T6670	2.20	3GB	15.6"	HD	LED	2.0M	GMA	320G 7200	DVD±RW *	Intel 1000	AT&T <sup>23</sup>		6	Pro 32	Jan 10
2847-AZU	T6570	2.10	2GB	15.6"	HD	LED	Glossy 2.0M	GMA	250G 5400	DVD±RW *	Intel 1000			6	Home P	Apr 10
2847-CZU	T6670	2.20	2GB	15.6"	HD	LED	0.3M	GMA	250G 5400	DVD±RW *	Intel 1000			6	Pro 64	Sep 10
2847-D2U	T6670	2.20	3GB	15.6"	HD	LED	0.3M	GMA	500G 7200	DVD±RW *	Intel 1000			6	Pro 64	Sep 10

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

Processor	Intel® Core™ 2 Duo processor T5870, T6570, or T6670 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core 2 Duo processor P8700 with dual-core, Intel HD Boost, 1066MHz system bus, and 3MB L2 cache	Preloaded operating system <sup>20</sup>
Memory	2GB, 3GB, or 4GB std / 8GB max <sup>7</sup> / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	- Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 32 - Some: Genuine Windows 7 Professional 64
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB <sup>8</sup> (5400 rpm), 250GB (5400 rpm), 320GB (5400 or 7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™	Preloaded applications <sup>14</sup> (only some listed)
Widescreen display	<i>Some:</i> 15.6" (395mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 15.6" (395mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	• Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)
Camera	<i>Some:</i> camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDCP to output protected content Max external resolution: 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)	
Keyboard TrackPoint® Touch pad	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows and App keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminated power button	
Lighting FX		
Dimensions <sup>3</sup> Weight <sup>2</sup> Case	4/6-cell 15.6W" (WxDxH): 14.9" x 9.72" x 1.26–1.42"; 380 x 247mm x 32–36mm 4-cell: starting at 5.17 lb (2.35kg); 6-cell: starting at 5.64 lb (2.56kg) Color: ThinkPad Matte Black; Material: Scratch-resistant ABS plastic	
Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Lithium Ion 6-cell 6-cell: up to 4.0 hr; 9-cell: up to 6 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752)	Supports ThinkVantage® technologies
ExpressCard Multicard reader PC Card Smart Card read Ports	One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	65-watt (GMA graphics) AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378
Mini PCI Express Intel 1000 <sup>28</sup> Intel 5100 <sup>28</sup> WiMAX Verizon <sup>16</sup> AT&T <sup>23</sup>	One or two Mini PCI Express slots <i>Some:</i> 11b/g/n wireless <sup>4</sup> , Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> 11a/b/g/n wireless, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n and WiMAX wireless, Mini PCIe adap, Intel WiMAX/WiFi Link 5150, 1x2 (300Mbps) WiFi + 1x2 WiMAX (Echo Peak) <i>Some:</i> Wireless WAN, Qualcomm Gobi 1000 chipset, Mini PCIe adpdr, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, service contract required with Verizon® <i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T®	ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975
Modem Bluetooth™ Ethernet Intel AMT Audio support	None <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole	ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976
Security Security chip Fingerprint reader	None None <i>Some:</i> Fingerprint reader on palm rest, swipe sensor	Post-warranty annual maintenance agreements at
Limited warranty <sup>12</sup>	1-year - depot repair service / service upgrades <sup>22</sup> available	lenovo.com/thinkplus/warranty

See footnotes for important warranty information  
US models announced October 22, November 17, or December 15, 2009, April 6 or September 28, 2010  
US models withdrawn effective February or December 2010 or January or October 2011

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# ThinkPad® SL510 2847 (GMA) - TopSeller (Win 7) - Jan 2011 - withdrawn

Personal Systems Reference (PSREF)

Type-model	proc- essor	GHz	Memory	Wide- screen display	CCFL or LED	Cam- era	Inte- grated graphics	Disk SATA GB <sup>8</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Blue- tooth	Finger print reader	Bat- tery cells	Preload	Avail date
2847-DJU	T6670	2.20	4GB	15.6" HD	LED	0.3M	GMA	500G 7200	DVD±RW	* 11n <sup>28</sup>	None	None	None	6	Home P	Jan 11
2847-DKU	T6670	2.20	2GB	15.6" HD	LED	0.3M	GMA	250G 5400	DVD±RW	* Intel 1000 <sup>28</sup>	None	None	None	6	Home P	Jan 11

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

Processor	Intel® Core™ 2 Duo processor T6670 with dual-core, 800MHz system bus, and 2MB L2 cache											Preloaded operating system <sup>20</sup> - Genuine Windows® 7 Home Premium 64			
Memory	2GB or 4GB std / 8GB max <sup>7</sup> / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available											Preloaded applications <sup>14</sup> (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)			
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 250GB <sup>8</sup> (5400 rpm) or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™														
Widescreen display Camera	15.6" (395mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 0.3-megapixel, fixed focus														
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDCP to output protected content <i>Max external resolution:</i> 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)														
Keyboard TrackPoint® Touch pad	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows and App keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch														
Lighting FX	Illuminated power button											Supports ThinkVantage® technologies			
Dimensions <sup>3</sup> Weight <sup>2</sup> Case Battery - type <sup>37</sup> Battery - life <sup>10</sup>	4/6-cell 15.6W" (WxDxH): 14.9" x 9.72" x 1.26-1.42"; 380 x 247mm x 32-36mm 4-cell: starting at 5.17 lb (2.35kg); 6-cell: starting at 5.64 lb (2.56kg) <i>Color:</i> ThinkPad Matte Black; <i>Material:</i> Scratch-resistant ABS plastic Lithium Ion 6-cell 6-cell: up to 4.0 hr; 9-cell: up to 6 hr											65-watt (GMA graphics) AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378			
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752)														
ExpressCard Multicard reader PC Card Smart Card read Ports	One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)											ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976			
Mini PCI Express 11n <sup>28</sup> Intel 1000 <sup>28</sup> WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	One Mini PCI Express slot <i>Some:</i> 11b/g/n wireless <sup>4</sup> , Mini-PCIe Adapter II <i>Some:</i> 11b/g/n wireless, Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2 None None None Realtek® RTL8111DL Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole														
Security Security chip Fingerprint reader	None None None											Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>			
Limited warranty <sup>12</sup>	1-year - depot repair service / service upgrades <sup>22</sup> available														

See footnotes for important warranty information  
US models announced January 11, 2011  
US models withdrawn effective October, 2011

\* Intel Centrino® processor technology  
✦ Intel Centrino 2 processor technology

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(TOP1-4) October 2011

# ThinkPad® SL510 2875 (GMA) - TopSeller (Celeron) - Win 7 - withdrawn

Personal Systems Reference (PSREF)

Type-model	Celeron processor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Camera	Integrated graphics	Disk SATA GB <sup>3</sup> rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Battery Fing cells	Preload	Avail date
2875-32U	Cel T3000	1.80	1GB	15.6" HD	LED	Glossy		GMA	160G 5400	DVD±RW	11n <sup>28</sup>	None	None	6 Home P	Oct 09
2875-4YU	Cel T3100	1.90	2GB	15.6" HD	LED	Glossy	2.0M	GMA	250G 5400	DVD±RW	Intel 1000 <sup>28</sup>	None	None	6 Home P	Jan 10

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **A comprehensive computing solution for small and medium business**
- **Balanced between serious business computing and powerful multimedia features**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Processor	<b>Intel® Celeron® Processor T3000 or T3100 with dual-core,</b> 800MHz system bus, and 1MB L2 cache											<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64	
Memory	<b>1GB or 2GB</b> std / 4GB max <sup>7</sup> / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available											<b>Preloaded applications<sup>14</sup></b> (only some listed)	
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in <b>160GB<sup>8</sup></b> (5400 rpm) or <b>250GB</b> (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Password Manager</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Toolbox</li> <li>• Adobe® Reader®</li> <li>• Adobe Flash® Player</li> <li>• Skype™ for Windows</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• Microsoft Research AutoCollage Touch</li> <li>• Roxio® Creator® Business Edition (DVD±RW)</li> <li>• Roxio MyDVD® (DVD±RW)</li> <li>• Corel® WinDVD® (DVD±RW)</li> </ul>	
Widescreen display Camera	<b>15.6"</b> (395mm) <b>HD (1366x768) color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus												
Integrated graphics	<b>Intel Graphics Media Accelerator 4500M (GMA 4500M)</b> , in GL40, HDMI port supporting HDCP to output protected content <i>Max external resolution:</i> 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)												
Keyboard TrackPoint® Touch pad	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows and App keys TrackPoint® pointing device, Internet Scroll Bar <sup>13</sup> , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch												
Lighting FX	Illuminated power button												
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup> Battery - life <sup>10</sup>	4/6-cell <b>15.6W"</b> (WxDxH): 14.9" x 9.72" x 1.26–1.42"; 380 x 247mm x 32–36mm 4-cell: starting at 5.17 lb (2.35kg); 6-cell: starting at 5.64 lb (2.56kg) ThinkPad Matte Black Scratch-resistant ABS plastic Lithium Ion <b>6-cell</b> 6-cell: up to 4.0 hr; 9-cell: up to 6 hr											Supports ThinkVantage® technologies	
Chipset	<b>Mobile Intel GL40 Express Chipset</b> (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752) One slot (ExpressCard/34)											65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup> via 800-426-7378	
ExpressCard Multicard reader PC Card Smart Card read Ports	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)											ThinkPlus™.22 1-year LOR <sup>24</sup> 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976	
Mini PCI Express 11n <sup>28</sup> Intel 1000 <sup>28</sup> WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	One Mini PCI Express slot <i>Some:</i> 11b/g/n wireless <sup>4</sup> , Mini-PCIe Adapter II <i>Some:</i> 11b/g/n wireless, Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2 None None None Realtek® RTL8103EL 10/100 Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack											Post-warranty annual maintenance agreements at <b>lenovo.com/thinkplus/warranty</b>	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None												
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available												

See footnotes for important warranty information  
US models announced October 22 or December 15, 2009  
US models withdrawn effective December 2010

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

<b>Storage and removable storage</b>		
SL410/510 500GB Disk SATA 3G/s (5400 rpm)	43N3422	ann 10/22/09
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
Lenovo Slim USB Portable DVD Burner	0A33988	ann 06/14/11

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

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

<b>Mouse</b>		
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
ThinkPad USB Laser Mouse	57Y4635	ann 12/15/09
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann 06/04/02
ThinkPad Bluetooth Laser Mouse	41U5008	ann 01/22/08
Lenovo Optical Mouse A6010 (black)	57Y6255	
Lenovo Mini Optical Mouse M20B	55Y2091	
Lenovo Wireless Mouse N30B (black)	55Y9360	

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

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

<b>Modem</b>		
USB 2.0 Lenovo Modem	43R1814	ann 02/26/08

<b>Batteries<sup>37</sup></b>		
ThinkPad Battery 25 (4-cell)	51J0498	ann 10/22/09
ThinkPad Battery 25+ (6-cell)	51J0499	ann 10/22/09
ThinkPad Battery 25++ (9-cell)	51J0500	ann 10/22/09
ThinkPad External Battery Charger <sup>44</sup>	40Y7625	ann 09/20/05
<sup>44</sup> Requires the <i>ThinkPad 90W AC Adapter</i> 40Y7659 or the adapter provided with the system.		

More information at [www.lenovo.com/alldaycomputing](http://www.lenovo.com/alldaycomputing)

ThinkPad 65W AC Adapter <sup>45</sup>	40Y7696	
<sup>45</sup> Only compatible with the integrated graphics models.		
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
ThinkPad 65W AC Adapter with USB Hub	57Y4600	ann 09/07/10
90W Ultralim AC/DC Combo Adapter	41R4493	ann 09/22/09

More info at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

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

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

More information at [www.lenovopowertips.com](http://www.lenovopowertips.com)

**Carrying Cases**		
*Up to 15.6" widescreen models:*		
ThinkPad 15W Case Sleeve	51J0477	ann 08/18/09
Lenovo Messenger Max	41U5253	ann 05/01/07
Lenovo Performance BackPack	41U5254	ann 05/01/07
ThinkPad Business Backpack	43R2482	ann 05/13/08

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

**Monitors**		
ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2321x Wide 23" Monitor	4014HB6	ann 06/10/10
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

**Monitor Accessories<sup>46</sup>**		
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Security Cable Lock	57Y4303	ann 08/24/10
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09
<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.		

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:  
[www.lenovo.com/accessories](http://www.lenovo.com/accessories)  
 Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)  
 Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)  
 Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)  
 An Options Compatibility Configurator for Lenovo systems

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

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

**Footnotes:**

- <sup>1</sup> Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.
- <sup>2</sup> **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.
- <sup>3</sup> **Thinness** may vary at certain points on the system.
- <sup>4</sup> **Wireless capability:** Requires compatible wireless-enabled options sold separately.
- <sup>6</sup> **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- <sup>7</sup> **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems Windows XP Professional 64-bit and Windows Vista 64-bit Editions.
- <sup>8</sup> **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

<sup>10</sup> **Battery:** These model numbers achieved the battery life based on MobileMark® 2007 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

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

<sup>13</sup> **Internet access not included.**

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

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

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

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

<sup>19</sup> **EasyServ depot repair service:** In the United States call 1-800-426-7378. The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.

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

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

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

<sup>24</sup> **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. In the United States call 1-800-426-7378. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

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

<sup>28</sup> **The IEEE 802.11n specification (MIMO)** has not been finalized and is currently in draft release. The ThinkPad 11a/b/g/n (11n) Wireless LAN Mini PCI Express Adapters are based on the Draft Release, Version 1.02, of the IEEE 802.11n specification. The Intel Mini PCI Express Adapters are based on the Draft Release, Version 2.0 of the IEEE 802.11n specification. 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, or 11a/b/g/n can communicate on any of its supported formats.

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

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

<sup>35</sup> **Operating system:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to [lenovo.com/think/support](http://lenovo.com/think/support) and enter your machine type and model number for more information.

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