### ThinkPad® Edge E220s 5038 (TopSeller) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA</th>
<th>mSATA Carrier</th>
<th>Finger print reader</th>
<th>Bluetooth cells</th>
<th>Battery Preload</th>
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<td>None</td>
<td>Finger Blue</td>
<td>8</td>
<td>Pro 64</td>
</tr>
</tbody>
</table>

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

#### Preloaded operating system™
- Some: Genuine Windows 7 Home Premium 64
- Some: Genuine Windows 7 Professional 64

#### Ready to install applications
- Rescue and Recovery™
- Access Connections™
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

#### Preloaded applications
- 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)

### Positioning
- Elegant design with quality, reliability, and portability for SMB customers; one spindle
- Intel® Core™ i3-2357M processor (dual-core, 1.30GHz, 3MB Cache)
- DDR3 memory controller (up to 1333MHz), Hyper-Threading technology
- Intel Core i3-2367M processor (dual-core, 1.40GHz, 3MB Cache)
- DDR3 memory controller (up to 1333MHz), Hyper-Threading technology
- Intel Core i5-2467M processor (dual-core, 1.60GHz, 3MB Cache)
- DDR3 memory controller (up to 1333MHz), Hyper-Threading technology
- Intel Core i5-2537M processor (dual-core, 1.40GHz, 3MB Cache)
- DDR3 memory controller (up to 1333MHz), Hyper-Threading technology

### Optical SATA disk
- None
- 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™ (APS)
- All: removable, upgradable, Shock Mounted Hard Drive

### Graphics
- Intel® HD Graphics 3000 in processor, digital monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display:
- Maximum external resolution: 2048x1536 (VGA) @75Hz; 1920x1200 (HDMI port) @60Hz

### Keyboard
- 6-row, spill-resistant, multimedia Fn keys

### Touchpad
- UltraNav™, touch-sensitive touchpad below keyboard, Tap Zones, scrolling regions, multi-touch
- ThinkLight™ illumination of the touchpad to improve visibility in low-light conditions

### Dimensions³
- 12.5"W (WxDxH): 12.32" x 8.41" x 0.86"; 313mm x 213.5mm x 21.9mm

### Weight²
- Starting at 3.23 lb (1.46kg)

### Battery - type³
- Integrated Lithium Ion 8-cell, 1000 cycle battery

### Battery - life¹⁴
- 8-cell (40.7Whr): up to 6.0 hr

### Chipset
- Mobile Intel HM65 Express Chipset

### ExpressCard/34
- 4-in-1 reader (MMC, SD, SDHC, SDXC)

### Multicard Reader Ports
- Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

### PCle Mini Card LAN
- 65-watt AC adapter
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant
- RoHS-compliant
- International Warranty Service 5.0
- 24 hour x 7 day 5/6 toll-free support during the warranty period

### Power-on password, hard disk password
- For compatible accessories, please go to O-E220-S sheet
- For Lenovo service upgrade options, please go to S-EDGE sheet

---

See footnotes for more detailed information

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US model(s) announced December 20, 2011; previous model(s) on April 19, 2011; US model(s) withdrawn effective May 2012.
ThinkPad® Edge E220s Accessories

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 0A6E619 ann 11/29/11
USB 3.0 Secure 750GB Hard Drive 0A6E616 ann 11/29/11
USB 3.0 Secure 1TB Hard Drive 0A6E621 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 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 73P5260 ann 03/23/04
Lenovo Mini Wireless Keyboard 59012 57Y6336 ann 01/06/09
Lenovo Wireless Laser Mouse 0A36188 ann 06/04/09
ThinkPad 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 0A36188 ann 12/20/11

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

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

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

Power adapters
ThinkPad 65W AC Adapter 40Y7966 ann 01/05/06
** Only compatible with the integrated graphics models.

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

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

Carrying Cases
Up to 13.3” widescreen models:
ThinkPad Ultraportable Case 41U5062 ann 05/13/08

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

Monitors
ThinkVision® LT171p 17” (VGA, DVI-D) 5047H2B ann 10/20/09
ThinkVision L1900p 19” (VGA, DVI-D) 4431HE1 ann 11/11/08
ThinkVision LT1952p Wide 19” (VGA, DVI-D) 2448MB6 ann 09/13/11
ThinkVision L2250p Wide 22” (VGA, DVI-D) 2572HB6 ann 10/20/09
ThinkVision L2251x Wide 22” (VGA, DVI-D) 2578HB6 ann 10/20/09
ThinkVision LT2252p Wide 22” (VGA, DVI-D) 2572MB6 ann 09/13/11
ThinkVision LT2452p Wide 24” (VGA, DVI-D) 4420MB2 ann 09/13/11
** DisplayPort cable is not included.
ThinkVision LT1421 Wide 14” Mobile Monitor with Protective Screen Cover (USB 2.0) 1452DS6 ann 08/16/11
Lenovo LS2421p Wide 23.6” (VGA, HDMI) 4015LS1 ann 08/02/11

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

Monitor Accessories
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 73P5262 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

** Compatible on selected Lenovo and ThinkVision monitors.
More information at www.lenovo.com/support/monitoraccessories

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

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

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

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

© Lenovo (O-E220-S) February 2013
## ThinkPad® Edge 13" 0196 (Intel) - TS (XP with Win 7 License) - withdrawn

### Personal Systems Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Integrated graphics</th>
<th>Disk SATA</th>
<th>PCIe Mini Card</th>
<th>Top color</th>
<th>Blue-tooth</th>
<th>Battery cells</th>
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<td>SU7300</td>
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<td>XP Pro</td>
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</table>

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

### Preloaded operating system
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32

### Preloaded applications (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

### Supports ThinkVantage™ technologies
- ENERGY STAR® Gold rating
- RoHS-compliant
- International Warranty Service 24 hour x 7 day toll-free support via 800-426-7378 during the warranty period

### 65-watt AC adapter
- EPEAT® 5.0-compliant
to ensure that the ThinkPad® Edge is designed to meet environmental and energy efficiency guidelines.

### Additional Features
- Advanced video and audio technologies (only some listed)
- TrackPoint® pointing device, Internet Scroll Bar™
- Wide touch pad below keyboard, Tap Zones, multi-touch
- 4-cell: up to 8.0 hr; 6-cell: up to 5.3 hr, 2 Duo processor SU7300 Core with ultra low voltage, dual-core, 800MHz system bus, and 3MB L2 cache
- Digital camera on top of screen, 0.3-megapixel, low light sensitive
- LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio
- Active Protection System

### Additional Notes
- **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

<table>
<thead>
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<th>Type-model</th>
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</table>

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

### Preloaded operating system
- Some: Genuine Windows® 7 Home Premium 64
- Some: Genuine Windows® 7 Professional 32

### Preloaded applications
- 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

Supports ThinkVantage® technologies

65-watt AC adapter
- ENERGY STAR® 5.0-compliant
- RoHS-compliant
- International Warranty Service

24 hour x 7 day toll-free support during the warranty period via 800-426-7378

Genuine Windows® 7

- Microsoft Office 2010 preloaded:
- Office 2010 Product Key Ready (O10PKR)

- Microsoft Research AutoCollage Touch

### PCle Mini Card

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Intel 1000</th>
<th>WiMAX</th>
<th>Modem</th>
<th>Bluetooth™</th>
<th>Ethernet</th>
<th>Intel AMT</th>
<th>Audio support</th>
<th>Security</th>
<th>Security chip</th>
<th>Fingerprint reader</th>
<th>Limited warranty</th>
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</thead>
<tbody>
<tr>
<td>0196-24U SU7300</td>
<td>Two PCI Express Mini Card slots</td>
<td>Some: 11a/b/g/n wireless, PCle Half Mini Card, Intel Centrino Wireless-N 1000, 1x2</td>
<td>Some: Bluetooth 2.1 wireless</td>
<td>Realtek® RTL8111DL Gigabit Network Connection</td>
<td>None</td>
<td>High Definition (HD) Audio, Conexant® CX20582 codec / stereo speakers, 1 watt x 2 / mono microphone, combo audio/mic jack</td>
<td>Power-on password, hard disk password, supervisor password, security keyhole</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1-year - depot repair service / service upgrades available</td>
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**Note:** 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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(541-1001) February 2011
This small and medium business (SMB) model is part of the US TopSeller™ Program.
See footnotes for important warranty information
US models announced January 5, 2010
US models withdrawn effective February 2011

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<th>Camera</th>
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<td>Pro 32</td>
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</tr>
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</table>

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

- Preloaded operating system:
  - Some: Genuine Windows® 7
  - Some: Genuine Windows® 7 Professional 32

- Preloaded applications (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

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT® Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service

Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

ThinkPlus™ 1-year LOR4 9x5 NBD
ThinkPlus 2-year LOR 9x5 NBD
ThinkPlus 3-year LOR 9x5 NBD
ThinkPlus 4-year LOR 9x5 NBD
ThinkPlus 2-year P&L P/U Depot
ThinkPlus 3-year P&L P/U Depot
ThinkPlus 4-year P&L P/U Depot

Limited warranty 1-year - depot repair service / service upgrades available

Positioning Processor: Sophisticated design with quality, durability and reliability for SMB customers; one spindle AMD® Athlon™ Neo X2 Dual-Core processor L325 with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB L2 cache

Memory: 2GB or 3GB std / 4GB max / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets;

Optical drive: SATA disk None (use optional USB Portable DVD Burner 43N3264)

Widescreen display: 13.3" (338mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio

Camera: on top of screen, 0.3-megapixel, low light sensitive

Integrated graphics: ATI™ Radeon™ HD 3200 graphics, 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; Max external resolution: 2456x1536@60Hz

Keyboards: 6-row, spill-resistant, multimedia Fn keys

Touchpad: TrackPoint® pointing device, Internet Scroll Bar®, wide touch pad below keyboard, Tap Zones, multi-touch

ThinkLight™:

Dimensions: 13.3W (WxDxH): 12.7" x 9.0" x 1.0"; 322 x 228mm x 25.4mm (excluding battery bump)

Weight: 4-cell: starting at 3.61 lb (1.64kg); 6-cell: starting at 3.83 lb (1.74kg)

Case color: Matte black (top) or glossy black (top), trimmed with a thin silver band (side);

Battery - life: LiThium Ion 4-cell or 6-cell L325 models with 4-cell: up to 3.3 hr; 6-cell: up to 5.0 hr

Chipset: AMD M780G Chipset, SB710 south bridge

Audio support: Realtek RTL8111DL Gigabit Network Connection

Security: Power-on password, hard disk password, supervisor password, security keyhole

Security chip: None

Fingerprint reader: None

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

© Lenovo

(RAPR-2) February 2011
## Memory
- **1096 with Intel processors:**
  - 1GB PC3-8500 DDR3 Low-Halogen SODIMM 55Y3706
  - 1GB PC3-8500 DDR3 L-H SODIMM (25-Pack) 57Y4385
  - 2GB PC3-8500 DDR3 Low-Halogen SODIMM 55Y3707
  - 2GB PC3-8500 DDR3 L-H SODIMM (25-Pack) 57Y4386
  - 1GB PC3-10600 DDR3-L H SODIMM 55Y3709
  - 2GB PC3-10600 DDR3-L H SODIMM (25-Pack) 55Y4415
  - 2GB PC3-10600 DDR3-L H SODIMM (25-Pack) 55Y4416

## Batteries
- ThinkPad Battery 73 (4-cell) 57Y4564
- ThinkPad Battery 73+ (6-cell) 57Y4565
- ThinkPad External Battery Charger** 40Y7625

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

More information at www.lenovo.com/alladaycomputing

## Carrying Cases
- ThinkPad 15W Case Sleeve 51J0471
- Lenovo Business Messenger Case 51J0475
- Lenovo Messenger Max 41U5253
- ThinkPad Business Topload Case 43R2476
- ThinkPad Business Backpack 43R2482
- ThinkPad Deluxe Expander Case 43R2478
- ThinkPad Executive Leather Case 43R2480

More information at www.lenovoaccessories.com

## Monitors
- ThinkVision L2230x Wide 21.5" Monitor 5453HB1
- ThinkVision L2440p Wide 24" Monitor 4420HB2
- ThinkVision L2321x Wide 23" Monitor 4014HB6
- ThinkVision L2251x Wide 22" Monitor 2578HB6
- ThinkVision L2251p Wide 22" Monitor 2572HD6
- ThinkVision L1951p Wide 19" Monitor 2448HB6
- ThinkVision L2250p Wide 22" Monitor 2572HB6
- ThinkVision L2255p Wide 22" Monitor 2572HD6
- ThinkVision L2321x Wide 23" Monitor 4014HB6
- ThinkVision L2440p Wide 24" Monitor 4420HB2

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

## Modem
- USB 2.0 Lenovo Modem 43R1814

For more information on ThinkPad accessories, please visit:
www.lenovo.com/support/accessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide
Lenovo® ThinkPad Edge 14"

(Glossy black model)

Lenovo ThinkPad Edge 14"

ThinkPad In-Ear Headphones with mic
57Y4488
| Model   | Processor | GHz | Memory | Wide-screen display | Disk | PCle Mini Card | PCle Mini Card | Top color       | Finger print reader | Bluetooth cells | Battery-life hours | Availability |
|---------|-----------|-----|--------|---------------------|------|----------------|----------------|----------------|-------------------|-------------------|------------------|-----------------|---------------|
| 0578-HSU | i3-370M   | 2.40| 4GB    | 14.0"HD             | 320G | Intel 1000     | None           | Glossy black    | Finger            | Blue              | None             | 4-cell: up to 4.5 hr | Jul 10        |
| 0578-HYU | i3-370M   | 2.40| 2GB    | 14.0"HD             | 250G | Intel 1000     | None           | Matte black     | None              | None              | 4-cell: up to 2.9 hr, 6-cell: up to 4.5 hr | Jul 10        |

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

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**Positioning Processor**

Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i3 processor i3-370M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache

**Memory**

2GB or 4GB std / 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; Italics: standard memory in both sockets; no sockets available; Non-italics: standard memory in one socket; one socket available

**SATA DVD+RW SATA disk**

DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 250GB (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™

**Widescreen display**

14.0" (355mm) HD (1366x768) color. VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 1920x1080 (HDMI port)

**Integrated graphics**

Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)

**Keyboard**

6-row, spill-resistant, multimedia Fn keys

**Touchpad**

TrackPoint® pointing device, UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch

**ThinkLight™**

None

**Dimensions**

14.0W (WxDxH): 13.54"x 9.17"x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm

4-cell: from 4.72 lb (2.14kg); 6-cell: from 6.9 lb (3.22kg); 9-cell: from 9.2 lb (4.14kg)

**Battery - type**

Lithium Ion 6-cell

**Battery - life**

4-cell: up to 2.9 hr; 6-cell: up to 4.5 hr

**Chipset**

Mobile Intel HM55 Express Chipset

**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)

**PCle Mini Card**

Two PCI Express Mini Card slots

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<thead>
<tr>
<th>Model</th>
<th>PCIe Mini Card</th>
<th>Intel Centrino® Wireless-N 1000, 1x2</th>
<th>Wireless-N upg</th>
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**Fingerprint reader**

Some: UPEK Fingerprint reader on palm rest, swipe sensor

**Limited warranty**

1-year - depot repair service / service upgrades available

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**Preloaded operating system**

- Windows XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32

**Preloaded applications**

- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Adobe® Reader™
- Adobe Flash® Player
- Skype™ for Windows

**Supports ThinkVantage® technologies**

65-watt AC adapter

EPEAT® Gold rating

ENERGY STAR® 5.0-compliant

RoHS-compliant

International Warranty Service17 24 hour x 7 day toll-free support during the warranty period via 800-426-7375

**ThinkPlus™**

- 1-year LOR24 9x5 NBD
- 2-year LOR 9x5 NBD
- 3-year LOR 9x5 NBD
- 4-year LOR 9x5 NBD
- 2-year P/L P/U Depot
- 3-year P/L P/U Depot
- 4-year P/L P/U Depot

**Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty**

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See footnotes for important warranty information

US models announced July 6, 2010

US models withdrawn effective October 2010

© Lenovo (BER1-4) October 2010
0578-23U i3-350M 2.26 2+1GB 14.0" HD 320G 7200 Intel 6200™
0578-25U i3-330M 2.13 2GBx2 14.0" HD 250G 5400 11b/g/n
0578-27U i3-330M 2.13 2GBx1 14.0" HD 250G 5400 Intel 1000™
0578-29U i3-330M 2.13 2GBx1 14.0" HD 250G 5400 Intel 1000™
0578-28U i3-330M 2.13 2GBx2 14.0" HD 250G 5400 Intel 1000™
0578-65U i3-330M 2.13 2+1GB 14.0" HD 250G 5400 Intel 1000™
0578-86U i3-330M 2.13 2GBx2 14.0" HD 320G 7200 Intel 1000™
0578-84U i3-330M 2.13 2+1GB 14.0" HD 250G 5400 Intel 1000™
0578-83U i3-330M 2.13 2+1GB 14.0" HD 250G 5400 Intel 1000™
0578-64U Cel P4500 1.86 2GBx1 14.0" HD 250G 5400 Intel 1000™
0578-85U i3-330M 2.13 2GBx1 14.0" HD 250G 5400 Intel 1000™
0578-66U i3-330M 2.13 2+1GB 14.0" HD 250G 5400 Intel 1000™
0578-C6U i3-350M 2.26 2GBx2 14.0" HD 500G 7200 Intel 1000™
0578-C5U i3-350M 2.26 2GBx1 14.0" HD 320G 7200 Intel 1000™
0578-84U i3-330M 2.13 2GBx2 14.0" HD 250G 5400 Intel 1000™
0578-83U i3-330M 2.13 2+1GB 14.0" HD 250G 5400 Intel 1000™
0578-65U i3-330M 2.13 2+1GB 14.0" HD 250G 5400 Intel 1000™

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

** Preloaded operating system**
- Some: Genuine Windows® 7 Professional 32
- Some: Genuine Windows® 7 Home Premium 64
- Some: Genuine Windows® 7 Professional 64

** Preloaded applications**
- Some:
  - Rescue and Recovery™
  - Access Connections™
  - Password Manager
  - ThinkVantage System Update
  - ThinkVantage Toolbox
  - Norton™ Internet Security 2011 (30 days of virus definitions)
  - Adobe® Reader® 9
  - Adobe Flash® Player
  - Skype™ for Windows
  - Microsoft Office 2010 preloaded; purchase product key to activate
  - Microsoft Research AutoCollage Touch

** Supports ThinkVantage™ technologies**
- 66-watt AC adapter
- EPEAT® Gold rating (except Celeron models)
- ENERGY STAR® 5.0-compliant (except Celeron models)
- RoHS-compliant
- International Warranty Service
- 24 hour x 7 day toll-free support during the warranty period via 800-426-7375

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

© Lenovo
(BER1-1) June 2011

Lenovo.com/thinkplus/warranty
ThinkPad® Edge 14" 0578 (Intel) - TopS (Win 7) - May 2010 - withdrawn

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<th>Processor</th>
<th>GHz</th>
<th>Max turbo (GHz)</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Disk SATA GB</th>
<th>PCIe Mini Card 820.11</th>
<th>PCIe Mini Card WWAN</th>
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<td>Pro 64</td>
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</table>

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

**Preloaded operating system**
- Some: Genuine Windows® 7 Professional 64
- Some: Genuine Windows 7 Home Premium 64

**Preloaded applications** (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- 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

Positioning
- Sophisticated design with quality, durability and reliability for SMB customers; two spindles
- Intel® Core™ i3 processor i3-350M or i3-370M with dual-core.
- DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or
- Intel Core i5 processor i5-450M with dual-core.
- DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache

Memory
- 2GB or 4GB std / 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;
- Italic: standard memory in both sockets; no sockets available; Non-italic: standard memory in one socket; one socket available

SATA DVD±RW
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in

Widescreen display
- 14.0" (355mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio supports dual independent display;

Keyboard
- 6-row, spill-resistant, multimedia Fn keys
- TrackPoint® pointing device, Intel® Scroll Bar™
- UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch

ThinkLight™
- None

Dimensions
- 14.0W" (WxDxH): 13.54" x 9.17" x 1.25-1.46";
- 344 x 233mm x 31.8-37.0mm

Weight
- 4-cell: 2.66 lb (1.21kg);
- 9-cell: 3.35 lb (1.52kg);

Chipset
- Mobile Intel HM55 Express Chipset
- Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)

PCle Mini Card
- Intel 1000 (2GB)
- Gobi™ 2000

Power-on password, hard disk password, supervisor password, security keyhole

Security chip
- UPEK Fingerprint reader on palm rest, swipe sensor

Limited warranty 1-year - depot repair service / service upgrades available

See footnotes for important warranty information

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US models announced May 4 or July 6, 2010
US models withdrawn effective October 2010 or June 2011

(BER1-2) June 2011
ThinkPad® Edge 14" 0578 (Intel) - TopS (Win 7) - Jan 2011 - withdrawn

### Type-model and Processor
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<th>Model</th>
<th>Processor</th>
<th>GHz</th>
<th>Max turbo (GHz)</th>
<th>Memory</th>
<th>Wide-screen display</th>
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<th>Disk type</th>
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<th>PCle Mini Card WWAN</th>
<th>Carrier</th>
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<td>Fingerprint Blue</td>
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</tbody>
</table>

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

### Positioning Processor
Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i3 processor i3-380M or i3-390M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology: 3MB cache or Intel Core i5 processor i5-480M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology: 3MB cache

### Memory
2GB or 4GB std / 8GB max / 7PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italicics*: standard memory in both sockets; no sockets available; *Non-Italicics*: standard memory in one socket; one socket available

### SATA DVD±RW
DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in

### Widescreen display
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: 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, 2.0-megapixel, fixed focus

### Integrated graphics
Intel HD Graphics, in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI (supporting HDCP to output protected content); supports dual independent display; Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)

### Keyboard and Touchpad
6-row, spill-resistant, multimedia Fn keys
TrackPoint® pointing device, Internet Scroll Bar™

### ThinkLight™
UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch

### Dimensions
14.0W (Wx Dx H): 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm

### Weight
Matte black (top) or glossy black (top), from 5.29 lb (2.40kg)

### Battery - life
Up to 4.5 hr: 6-cell; 4-cell: 3.5 hr

### Battery - type
Lithium Ion 6-cell

### Chipset ExpressCard/34 Multicard Reader Ports
Mobile Intel HM55 Express Chipset
One ExpressCard/34

### PCle Mini Card
Two PCI Express Mini Card slots

### Carrier Modem
None

### Bluetooth™
Realtek® RTL8111DL Gigabit Network Connection
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

### Fingerprint reader
Some: UPEK Fingerprint reader on palm rest, swipe sensor

### Preloaded operating system
- Genuine Windows® 7
- Professional 64

### Preloaded applications
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Norton® Internet Security 2011
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

### Limited warranty
1- year - depot repair service / service upgrades 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

<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA GB rpm</th>
<th>PCle Mini Card</th>
<th>PCle Mini Card WWAN</th>
<th>Carrier</th>
<th>Top color</th>
<th>Finger print reader</th>
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* This small and medium business (SMB) model is part of the US TopSeller™ Program
* This system is Microsoft® Office 2010 Product Key Ready (O10PKR)

**Positioning Processor**
Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Pentium® processor P6200 with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), 3MB cache or Intel® Core™ i3 processor i3-370M or i3-380M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology: 3MB cache or Intel Core i5 processor i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost (3.06GHZ), Hyper-Threading technology: 3MB cache

**Memory**
8GB max1 / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italicics:* standard memory in both sockets; no sockets available; *Non-italics:* 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 Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™

**Widescreen display, Camera**
14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera on top of screen, 0.3 or 2.0-megapixel, fixed focus

**Integrated graphics**
Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)

**Keyboard, Touch pad, ThinkVantage**
6-row, spill-resistant, multimedia Fn keys
6-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
One ExpressCard/34

**Port**
Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)

**PCle Mini Card WWAN upg**
Two PCI Express Mini Card slots 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, 1x1

**Limited warranty**
1-year - depot repair service / service upgrades12 available

See footnotes for important warranty information

US model(s) announced May 10 or December 13, 2011; or February 28, 2012
US model(s) withdrawn effective June 2012

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**Preloaded operating system**
* Some: Genuine Windows 7 Home Premium 64
* Some: Genuine Windows 7 Professional 64

**Preloaded applications** (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

---

**Sata controls**
- 4-cell: from 4.72 lb (2.14kg); 6-cell: from 4.9 lb (2.22kg); 9-cell: from 5.29 lb (2.40kg)

**Battery - type**
Lithium Ion 6-cell

**Battery - life**
4-cell (32Whr): up to 2.9 hr; 6-cell (48Whr): up to 4.5 hr

**Chipset, ExpressCard/34, Multicard Reader**
Mobile Intel HM55 Express Chipset
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)

**Security**
Power-on password, hard disk password, supervisor password, security keyhole

**Security chip**
None

**Fingerprint reader**
None

---

**Supports ThinkVantage technologies**
65-watt AC adapter
EPEAT® Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service17
24 hour x 7 day18 toll-free support during the warranty period12

**Post-warranty annual maintenance agreements**

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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
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 | PCIe Mini Card | Top color | Finger print reader | Bluetooth | Battery cells | Preload | Availability | 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 | Finger | Blue | 6 | Home P 64 | Jun 10
0199-24U P220 | 2.10 | 2GB | 14.0" HD | | 0.3M | 320G 5400 | 11b/g/n | Matte black | 4 | Home P 64 | Jun 10
0199-27U P220 | 2.10 | 2GB | 14.0" HD | | 0.3M | 320G 5400 | 11b/g/n | Matte black | 6 | Pro 64 | Jul 10
0199-28U P220 | 2.10 | 4GB | 14.0" HD | | 2.0M | 320G 7200 | 11b/g/n | Matte black | Finger | Blue | 6 | Pro 64 | Jul 10
0199-29U P220 | 2.30 | 2GB | 14.0" HD | | 0.3M | 320G 5400 | 11b/g/n | Matte black | 6 | Pro 64 | Jul 10
0199-2AU P220 | 2.30 | 4GB | 14.0" HD | | 2.0M | 320G 7200 | 11b/g/n | Matte black | Finger | Blue | 6 | Pro 64 | Jul 10
0199-28U P520 | 1.80 | 2GB | 14.0" HD | | 0.3M | 320G 5400 | 11b/g/n | Matte black | 6 | Pro 64 | Jul 10
0199-22U P320 | 1.80 | 4GB | 14.0" HD | | 2.0M | 320G 7200 | 11b/g/n | Matte black | Finger | Blue | 6 | Pro 64 | Jul 10
0199-2EU P820 | 1.80 | 4GB | 14.0" HD | | 2.0M | 320G 7200 | 11b/g/n | Matte black | Finger | Blue | 6 | Pro 64 | Jul 10
0199-2FU P820 | 1.80 | 4GB | 14.0" HD | | 2.0M | 320G 7200 | 11b/g/n | Matte black | Finger | Blue | 6 | Pro 64 | Jul 10
0199-2GU P220 | 2.30 | 4GB | 14.0" HD | | 2.0M | 320G 7200 | 11b/g/n | Matte black | Finger | Blue | 6 | Pro 64 | Jul 10
0199-2HU P220 | 2.30 | 2GB | 14.0" HD | | 0.3M | 320G 5400 | 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**
- Sophisticated design with quality, durability and reliability for SMB customers; two spindles
- AMD Athlon™ II Dual-Core Mobile Processor P320 with dual-core, virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache or AMD Turion™ II Dual-Core Mobile Processor P520 with dual-core, virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache or AMD Phenom™ II Triple-Core Mobile Processor P820 with triple-core, virtualization technology, integrated DDR3 memory controller, and 1.5MB L2 cache

**Memory**
- 2GB or 4GB std / 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; **Italicics:** standard memory in both sockets; no sockets available; **Non-italic:** standard memory in one socket; one socket available
- SATA DVD±RW
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in
- 250GB (5400 rpm), 320GB (5400 or 7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™

**Widescreen display**
- Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- Some: 14.0" (355mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Camera**
- Some: camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus

**Integrated graphics**
- ATI™ Radeon™ HD 4250 graphics, 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 displays; **Max external resolution:** 2456x1536 @ 60Hz

**Keyboard**
- 6-row, spill-resistant, multimedia Fn keys
- TrackPoint® pointing device, Internet Scroll Bar™
- UltraNav™ wide touch pad below keyboard, Tap Zones, multi-touch

**ThinkLight™**
- None

**Dimensions**
- 14.0W (Wx Dx H): 13.54’’ x 9.17’’ x 1.25-1.46’’; 344 x 233mm x 31.8-37.0mm
- 4-cell: from 4.78 lb (2.17kg); 6-cell: 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**
- Acrylonitrile-Butadiene-Styrene (ABS) plastic

**Battery - type**
- Lithium Ion 4-cell or 6-cell

**Battery - life**
- 4-cell: up to 2.6 hr; 6-cell: up to 4 hr; 9-cell: up to 6 hr

**Chipset**
- AMD RS880M Chipset, SB820M south bridge
- One ExpressCard/34
- Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**PCle Mini Card**
- 11b/g/n
- Bluetooth™
- Ethernet
- Audio support
- Security
- Security chip
- Finger print reader

**Limited warranty**
- 1-year - depot repair service / service upgrades available

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

© Lenovo (BER1-3) December 2010

Preloaded operating system:
- Some: Genuine Windows® 7 Professional 64
- Some: Genuine Windows 7 Professional 64

Preloaded applications (only some listed):
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- Norton® Internet Security 2011
- Adobe® Reader
- Adobe Flash Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

SupportsThinkVantage® technologies

65-watt AC adapter

EPEAT® Gold rating

ENERGY STAR® 5.0-compliant and RoHS-compliant

International Warranty Service™ 24 hour x 7 day® toll-free support during the warranty period via 800-426-7378

ThinkPlus™ 1-year LOR® 9x5 NBD

ThinkPlus® 2-year LOR 9x5 NBD

ThinkPlus® 3-year LOR 9x5 NBD

ThinkPlus® 4-year LOR NBD

ThinkPlus® 2-year P&L NBD

ThinkPlus® 3-year P&L NBD

ThinkPlus® 4-year P&L NBD

Post-warranty annual maintenance agreements available at lenovo.com/thinkplus/warranty
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<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Screen type</th>
<th>Camera</th>
<th>Disk SATA GB</th>
<th>PCIe Mini Card</th>
<th>Top color</th>
<th>Finger print reader</th>
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- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

**Preloaded operating system**: Genuine Windows® 7 Professional 64

**Preloaded applications**
- 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

Supports ThinkVantage® technologies

- 65-watt AC adapter
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant
- RoHS-compliant
- International Warranty Service
- 24 hour x 7 day toll-free support during the warranty period via 800-426-7378

ThinkPlus® 1-year LOR 9x5 NBD 45K5968
ThinkPlus 2-year LOR 9x5 NBD 45K5969
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5973
ThinkPlus 2-year P&L P/U Depot 45K5971
ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkPlus 4-year P&L P/U Depot 45K5974

Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information

US models announced September 28, 2010 or March 1, 2011
US models withdrawn effective April or October 2011

© Lenovo (BER1-5) October 2011
ThinkPad® Edge 14" Accessories

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: 73Y2698 (ann 12/16/03)
- Ultraslim Plus Wireless Keyboard and Mouse: 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: 57Y6336
  - 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 01/07/10)
- 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: 0A36188 (ann 12/20/11)
  - 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 03/02/10)
- Lenovo Security Cable Lock: 57Y4303 (ann 08/24/10)
- USB Gemplus GemPC Smart Card Reader: 41N3040 (ann 02/21/06)

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

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

Batteries
- 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: 40Y7625 (ann 09/20/05)
  - Requires the ThinkPad 90W AC Adapter 40Y7659 or the adapter provided with the system.

More information at www.lenovo.com/alladaycomputing

ThinkPad 65W AC Adapter: 40Y7696 (ann 01/05/06)
  - Only compatible with the integrated graphics models.
ThinkPad 90W AC Adapter: 40Y7559 (ann 09/20/05)
- 90W Ultrasilm AC/DC Combo Adapter: 41R4493 (ann 09/22/09)

More info at www.lenovo.com/support/90wac

Charging tips for 90W Ultrasilm AC/DC Combo Adapter: 41R4493
- iPod and iPhone Charge Tip (L10a): 41R4481 (ann 12/18/07)
- Generic Micro USB charge tip (L18): 41R4490 (ann 01/06/06)

More information at www.lenovopowertips.com

Carrying Cases
- Up to 14" widescreen models:
  - ThinkPad 14" Case Sleeve: 57Y4294 (ann 03/16/10)
- Up to 15.6" widescreen models:
  - Lenovo Messenger Max: 41U5253 (ann 05/01/07)
  - Lenovo Performance BackPack: 41U5254 (ann 05/01/07)
  - ThinkPad Business Topload Case: 43R2476 (ann 05/13/08)
  - ThinkPad Business BackPack: 43R2482 (ann 05/13/08)
  - ThinkPad Deluxe Expander Case: 43R2478 (ann 05/13/08)
  - ThinkPad Executive Leather Case: 43R2480 (ann 05/13/08)
  - Lenovo Sport Backpack - Red: 0A38996 (ann 02/28/12)
  - Lenovo Sport Slimcase - Red: 0A38997 (ann 02/28/12)
  - Lenovo Sport Messenger - Red: 0A38998 (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

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): 2448MB6 (ann 09/13/11)
- ThinkVision L2250p Wide 22" (VGA, DVI-D): 2572HB6 (ann 12/29/03)
- ThinkVision L2251x Wide 22" (VGA, DVI-D): 2579HB8 (ann 10/20/09)
- ThinkVision L2252p Wide 22" (VGA, DP, DVI-D): 2572MB6 (ann 09/13/11)
- ThinkVision LT2452p Wide 24" (VGA, DVI-D): 4420MB2 (ann 09/13/11)
- ThinkVision LT1421 Wide 14" Mobile Monitor:
  - with Protective Screen Cover (USB 2.0): 1452D6 (ann 08/16/11)
- Lenovo LS2421p Wide 23.6" (VGA, DVI-D): 4015LS1 (ann 05/01/12)

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

Monitor Accessories
- 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: 45K2996 (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)
  - DisplayPort cable is not included.
- ThinkVision LT2462p Wide 24" (VGA, DVI-D): 4420MB2 (ann 09/13/11)
  - DisplayPort cable is not included.
  - Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on accessories:
- www.lenovo.com/accessories
  - An Options Compatibility Matrix (OCM) and accessory brochures
- www.lenovopowertips.com
- www.lenovocomputer.com
  - An Options Compatibility Configurator for Lenovo systems

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(Personal Systems Reference (PSREF)
(©-Edge14) February 2013)
## ThinkPad® Edge E420 1141 (Intel) - TopSeller - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA GB</th>
<th>rpm</th>
<th>PCIe Mini Card WLAN</th>
<th>PCIe Mini Card WWAN/mSATA</th>
<th>Carrier</th>
<th>Top color</th>
<th>Finger print reader</th>
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</table>

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

### Positioning
**Processor**
Sophisticated design with quality, durability and reliability for SMB customers; two spindles

Intel<sup>®</sup> Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache),

DDR3 memory controller (up to 1333MHz), HT technology

Intel<sup>®</sup> Core™ i3-2350M processor (dual-core, 2.30GHz, 3MB Cache),

DDR3 memory controller (up to 1333MHz), HT technology

Intel<sup>®</sup> Core™ i5-2450M processor (dual-core, 2.50GHz, 3MB Cache),

DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.90GHz), HT technology

Intel<sup>®</sup> Core™ i5-2520M processor (dual-core, 2.50GHz, 3MB Cache),

DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology

**Memory**
8GB max/<sup>TM</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

**Wide-screen display**
14.0" (355mm) HD (1366x768) color, anti-glare.

LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Camera**
HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator

**Graphics**
Intel HD Graphics 3000 in processor,

external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content);

supports dual independent display;

Max external resolution: 2048x1536 (VGA) @75Hz; 1920x1200 (HDMI) @60Hz

**Keyboard**
6-row, spill-resistant, multimedia Fn keys

TrackPoint<sup>®</sup> pointing device, Internet Scroll Bar<sup>®</sup>

ThinkLight<sup>™</sup>
UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch

None

**Dimensions<sup>3</sup>**
14.0W<sup>™</sup> (WxDxH): 13.52" x 9.20" x 1.13-1.43; 343.4 x 233.6mm x 28.7-36.4mm

6-cell: from 4.85 lb (2.2kg); 9-cell: from 5.2 lb (2.36kg)

**Weight<sup>2</sup>**
Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom

**Case color**
Acrylonitrile-Butadiene-Styrene (ABS) plastic

Lithium Ion 6-cell or 9-cell

**Battery - life**
6-cell (48Whr); up to 6.2 hr; 9-cell (94Whr); up to 11.7 hr

**Chipset**
Mobile Intel HM65 Express Chipset

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)

**PCle Mini Card WLAN<sup>4</sup>**
Two PCI Express Mini Card slots

Some: 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, 1x1

Some: 11b/g/n, PCle Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2

**WWAN**
None

**Modem**
None

**Bluetooth™**
Some: Bluetooth 3.0 wireless

Some: Bluetooth 2.1 wireless

**Ethernet**
Realtek<sup>®</sup> RTL8111E Gigabit Network Connection

**Audio support**
High Definition (HD) Audio; Conexant 20571 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**
Some: UPEK Fingerprint reader on palm rest, swipe sensor

**Limited warranty**<sup>12</sup> 1-year - depot repair service / service upgrades<sup>20</sup> available

See footnotes for more detailed information

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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
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA GB rpm</th>
<th>PCIe Mini Card</th>
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<th>Finger print reader</th>
<th>Bluetooth cells</th>
<th>Battery - life</th>
<th>Preload</th>
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<td>720p</td>
<td>320G 7200</td>
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<td>Matte black</td>
<td>None</td>
<td>None</td>
<td>6-cell (48Whr)</td>
<td>6 Pro 64</td>
</tr>
</tbody>
</table>

- 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
**AMD Accelerated Processor E2-3000M** (dual-core, 1.8GHz, 1MB L2 cache),
integrated AMD Radeon™ HD 6380G Graphics, AMD Turbo Core technology (up to 2.40GHz),
integrated DDR3 memory controller (up to 1333MHz)
**AMD Accelerated Processor A4-3300M** (dual-core, 1.90GHz, 2MB L2 cache),
integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz),
integrated DDR3 memory controller (up to 1333MHz)

Memory
8GB max / 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
Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high,
removable, upgradable, Shock Mounted Hard Drive, Active Protection System™

Widescreen display
14.0" (355mm) HD (1366x768) color, anti-glare,
LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

Camera
HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator

Graphics
Dynamic switching between discrete and integrated graphics (user selectable),
**AMD Radeon HD Graphics** in processor,
**AMD Radeon HD 6470M Graphics**, PCI Express® x16, 1GB memory,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content);
dupports dual independent display,
**Max external resolution**: 1920x1600 (VGA)@60Hz; 1920x1080p (HDMI)@60Hz

Keyboard
6-row, spill-resistant, multimedia Fn keys

TrackPoint®
TrackPoint pointing device, Internet Scroll Bar™

TouchLight™
UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch

Dimensions™
14.0W" (WxDxH): 13.52" x 9.20" x 1.13-1.43"; 343.4 x 233.6mm x 28.7-36.4mm
6-cell: from 4.85 lb (2.2kg); 9-cell: from 5.2 lb (2.36kg)

Case color
Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom

Battery - type™
Lithium ion 6-cell or 9-cell

Battery - life™
6-cell (48Whr): up to 4.2 hr; 9-cell (94Whr): up to 8.3 hr

Chipset
**AMD A60M FCH**

ExpressCard
One ExpressCard/34

Multicard Reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Three USB 2.0 (one powered), one USB 2.0/eSATA combo port external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

PCLe Mini Card
One PCI Express Half Mini Card slot

WLAN™
ThinkPad 11b/g/n, PCLe Half Mini Card, Realtek® chipset, 1x1

Modem
None

Bluetooth™
None

Ethernet
Realtek RTL8111E Gigabit Network Connection

Audio support
High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/
mono digital microphone, combo audio/mic jack

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
None

Fingerprint reader
None

Limited warranty15
1-year - depot repair service / service upgrades™ available

See footnotes for more detailed information

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US model(s) announced September 6, 2011
US model(s) withdrawn effective July 2012
ThinkPad® Edge E420, E425 Accessories

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 02/22/11

Keyboard
TrackPoint Cap Collection 73P2698 ann 01/07/10
TrackPoint Cap Collection 73P2698 ann 01/07/10
Ultraslim Plus Wireless Keyboard and Mouse 52 Only compatible with the integrated graphics models.
USB Numeric Keypad 33L3225 ann 05/01/00
Preferred Pro USB Keyboard 73P5220 ann 06/21/05
Enhanced Performance USB Keyboard 73P5260 ann 03/23/04
Lenovo Mini Wireless Keyboard N5901 (blk) 57Y6336
52 Wireless via 2.4GHz technology using a micro-size USB receiver.
ThinkPad USB Keyboard with TrackPoint 55Y9003 ann 08/18/09
Lenovo USB Fingerprint Keyboard 73P4730 ann 02/22/05
Lenovo USB Smartcard Keyboard 51J0155 ann 03/24/09

Mouse
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 52 0A36188 ann 12/20/11
52 Wireless via 2.4GHz technology using a micro-size USB receiver.

Security
3M 14.0W Privacy Filter from Lenovo 0A61769 ann 04/05/11
Kensington® MicroSaver® Cable Lock 73P2582 ann 12/29/03
Lenovo Security Cable Lock 57Y4303 ann 08/24/10
USB Gembplus 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

Batteries52
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 40Y7625 ann 09/20/05
44 Requires the ThinkPad 90W AC Adapter 40Y7659 or the adapter provided with the system.

More information at www.lenovo.com/aldaycomputing

ThinkPad 65W AC Adapter 40Y7696 ann 01/05/06

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

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) 2448MB6 ann 09/11/13
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) 2572MB6 ann 09/13/11
ThinkVision LT2452p Wide 24” (VGA, DP, DVI-D) 4420MB2 ann 09/13/11
66 DisplayPort cable is not included.
ThinkVision LT1421 Wide 14” Mobile Monitor with Protective Screen Cover (USB 2.0) 1452DS6 ann 08/16/11
Lenovo LSG411pWide 23.6” (VGA, HDMI) 4015LS1 ann 08/02/11

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

Monitor Accessories
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
46 Compatible on selected Lenovo and ThinkVision monitors.

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

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

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(O-E420) February 2013
## ThinkPad® Edge E420s 4401 (TopSeller) - withdrawn

**Personal Systems Reference (PSREF)**

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

### Specifications

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<th>PCle Mini Card WWAN</th>
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<td>320G 7200</td>
<td>Intel 1000</td>
<td>None</td>
<td>Finger Blue</td>
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</table>

**Positioning Processor**
- Elegant design with quality, reliability, and portability for SMB customers; two spindles Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache). DDR3 memory controller (up to 1333MHz), HT technology Intel Core i3-2330M processor (dual-core, 2.20GHz, 3MB Cache). DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2410M processor (dual-core, 2.90GHz, 3MB Cache). DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2430M processor (dual-core, 2.90GHz, 3MB Cache). DDR3 memory controller (up to 1333MHz), HT technology

**Battery**
- 8GB max / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
- DVD burner, 9.5mm high, fixed, not removable, slot-in
- Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high
- Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All:
  - removable, upgradable, Shock Mounted Hard Drive

**Graphics**
- Intel HD Graphics 3000 in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display;
- Max external resolution: 2048x1536 (VGA) @75Hz; 1920x1200 (HDMI) @60Hz

**Keyboard**
- 6-row, spill-resistant, multimedia Fn keys
- TrackPoint® point device, Internet Scroll Bar13
- UltraNav™, buttonless touchpad below keyboard, Tap Zones, scrolling regions, multi-touch
- Illuminates the keyboard to improve visibility in low-light conditions

**Dimensions**
- 14.0W" (WxDxH): 13.74" x 9.29" x 0.91-1.23"; 349mm x 236mm x 23.1-31.2mm
- Weight3: starting at 4.14 lb (1.88kg)
- Case color: Moss Black soft touch finish, authentic metal accents
- Case material: Magnesium/Aluminum + PPS
- Battery - type: Integrated Lithium Ion 4-cell, 1000 cycle battery
- Battery - life: 4-cell (48.8Whr): up to 7.0 hr

**Chipset**
- Mobile Intel HM65 Express Chipset
- Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**Supported ThinkVantage® technologies**
- 65-watt AC adapter
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant
- RoHS-compliant
- International Warranty Service17

**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
ThinkPad® Edge E420s Accessories

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 0A66519 ann 11/29/11
USB 3.0 Secure 750GB Hard Drive 0A66516 ann 11/29/11
USB 3.0 Secure 1TB Hard Drive 0A66521 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
Ultrasonic Plus Wireless Keyboard and Mouse 52 Wireless via 2.4GHz technology using a micro-size USB receiver.
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 Plus Trackpoint Keyboard 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 5901 03 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 52 Wireless via 2.4GHz technology using a micro-size USB receiver.

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

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

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

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

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

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

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

More information at www.lenovopowertips.com

Carrying Cases
Up to 14” widescreen models:
ThinkPad 14W Case Sleeve 57Y4294 ann 03/16/10
Up to 15.6” widescreen models:
Lenovo Messenger Max 41U5253 ann 05/01/07
Lenovo Performance BackPack 41U5254 ann 05/01/07
ThinkPad Business Topload Case 43R2476 ann 05/13/08
ThinkPad Business Backpack 43R2482 ann 05/13/08
ThinkPad Deluxe Expander Case 43R2478 ann 05/13/08
ThinkPad Executive Leather Case 43R2480 ann 05/13/08
Lenovo Sport Backpack - 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 Backpack - Grey 0B47301 ann 08/28/12
Lenovo Sport Slimcase - Grey 0B47303 ann 08/28/12

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

Monitors
ThinkVision® L1711p 17” (VGA, DVI-D) 5047HB2 ann 10/20/09
ThinkVision L1900p 19” (VGA, DVI-D) 4431HE1 ann 11/11/08
ThinkVision LT1952p Wide 19” (VGA, DP, DVI-D) 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) 2572MB6 ann 09/13/11
ThinkVision LT2452p Wide 24” (VGA, DP, DVI-D) 4420MB2 ann 09/13/11

DisplayPort cable is not included.

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

Monitor Accessories
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 08/28/12

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

For more information on accessories:
www.lenovo.com/accessories
Purchase Lenovo accessories
www.lenovo.com/support/accessories
Product specifications on Lenovo Support
www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures
www.lenovopowertips.com

ThinkPad® Edge E420s Accessories
Personal Systems Reference (PSREF)

© Lenovo
(O-E420-S) February 2013
**ThinkPad® Edge 15" 0301 (Intel) - TS (XP with Win 7 License) - withdrawn**  
**Personal Systems Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor GHz</th>
<th>Memory GB</th>
<th>Wide-screen display</th>
<th>Disk SATA GB</th>
<th>PCIe Mini Card 802.11</th>
<th>PCIe Mini Card WWAN</th>
<th>Carrier</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Bluetooth cells</th>
<th>Battery type</th>
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<td>Finger</td>
<td>Blue</td>
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<td>XP Pro</td>
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<td></td>
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<td>6-cell</td>
<td>XP Pro</td>
<td>Jul 10</td>
</tr>
</tbody>
</table>

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

---

**Preloaded operating system**
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32

**Preloaded applications**
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Adobe® Reader®, Adobe Flash® Player
- Skype™ for Windows

**Dimensions**
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, 2.0-megapixel, fixed focus

**Integrated graphics**
Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display, Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)

**Keyboard**
6-row, spill-resistant, multimedia Fn keys

**TrackPoint® pointing device**
TrackPoint® pointing device, Internet Scroll Bar™

**Touchpad**
UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch

**ThinkLight™**
None

**Operative Systems**
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32

**Battery specs**
- 65-watt AC adapter
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service
- 24 hour x 7 day toll-free support during the warranty period
- via 800-426-7378

**Chipset**
Mobile Intel HM55 Express Chipset

**ExpressCard/34**
7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)

**Multicard Reader**
Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**PCle Mini Card WWAN upg**
Two PCI Express Mini Card slots

**Modem**
None

**Bluetooth™**
Some: Bluetooth 2.1 wireless

**Ethernet**
Realtek® RTL8111DL Gigabit Network Connection

**Audio support**
High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack

**Security**
Password-on password, hard disk password, supervisor password, security keyhole

**Security chip**
None

**Fingerprint reader**
Some: UPEK Fingerprint reader on palm rest, swipe sensor

**Limited warranty**
1-year - depot repair service / service upgrades available

See footnotes for important warranty information

US models announced July 6, 2010

US models withdrawn effective October 2010

 © Lenovo

(LDN1-4) October 2010
**ThinkPad Edge 15" 0301 (Intel) - TopSeller (Windows 7) - withdrawn**

**Positioning**

Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i3 processor i3-330M or i3-350M with dual-core; DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache

**Memory**

2GB, 3GB, or 4GB std / 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; Italics: standard memory in both sockets; no sockets available; Non-italics: standard memory in one socket; one socket available

**SATA DVD:RW**

DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in

**SATA disk**

250GB® (5400 rpm) or 320GB® (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradeable, Active Protection System®

**Widescreen display**

Some: 15.6" (395mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

Some: 15.6" (395mm) HD (1366x768) color, VibrateView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Camera**

Camera on top of screen, 2.0-megapixel, fixed focus

**Integrated graphics**

Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display, Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)

**Keyboard**

6-row, spill-resistant, multimedia Fn keys

**Touchpad**

UltraNav®, wide touch pad below keyboard, Tap Zones, multi-touch

**ThinkLight™**

None

**Dimensions**

15.68W (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm

4-cell: from 5.32 lb (2.42kg); 6-cell: from 5.50 lb (2.50kg); 9-cell: from 5.89 lb (2.67kg)

Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom

**Battery - type**

Acrylonitrile-Butadiene-Styrene (ABS) plastic

**Battery - life**

Lithium Ion 4-cell or 6-cell

4-cell: up to 2.9 hr; 6-cell: up to 4.5 hr

**Chipset**

Mobile Intel HM55 Express Chipset

One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)

Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, ethernet) (RJ-45)

**PCIe Mini Card**

Two PCIe Express Mini Card slots

**Carrier**

None

**Modem**

Realtek® RTL8111DL Gigabit Network Connection

None

**Security**

Power-on password, hard disk password, supervisor password, security keyhole

None

**Fingerprint reader**

Some: UPEK Fingerprint reader on palm rest, swipe sensor

**Limited warranty**

1-year - depot repair service / service upgrades available

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

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

**Preloaded operating system**

- Some: Genuine Windows 7
- Home Premium 64
- Some: Genuine Windows 7
- Professional 32
- Some: Genuine Windows 7
- Professional 64

**Preloaded applications**

- Lenovo Online Data Backup
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Lenovo Flash Player®
- ThinkVantage Power Manager
- ThinkVantage System Update
- Lenovo System Rescue Center
- Access Connections
- Rescue and Recovery™
- Internet Security 2011

**Supports ThinkVantage® technologies**

- 65-watt AC adapter
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant
- RoHS-compliant
- 22 hour x 7 day toll-free support during the warranty period via 800-426-7378

See footnotes for important warranty information

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US models announced March 23, 2010

US models withdrawn effective August 2010 or June 2011
**ThinkPad® Edge 15" 0301 (Intel) - TopS (Win 7) - April 2010 - withdrawn**

**Personal Systems Reference (PSREF)**

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</table>

**Positioning Processor**

Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Celeron® Processor P4500 with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), and 2MB cache or Intel Core™ i3 processor i3-330M or i3-350M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-430M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache.

**Memory**

2GB or 4GB std / 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets.

**SATA DVD:RW**

SATA disk

SATA burner, SATA 1.5Gb/s, 12.7mm high, fixed, non removable, tray-in 250GB (7200 rpm), 320GB (7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™

**Widescreen display**

Some: 15.6" (395mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

Some: 15.6" (395mm) HD (1366x768) color, VividView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Camera**

Camera on top of screen, 2.0-megapixel, fixed focus

**Integrated graphics**

Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display, Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)

**Keyboard**

6-row, spill-resistant, multimedia Fn keys

**TrackPoint™ pointing device, Internet Scroll Bar™**

**Touch pad**

UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch

**ThinkLight™**

None

**Dimensions**

15.6W" (395mm) x 12.7" (323.3-37.5mm)

**Weight**

4-cell: from 3.52 lb (1.64kg); 9-cell: from 5.89 lb (2.67kg)

**Case color**

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**

Lithium Ion 4-cell or 6-cell

**Battery - life**

4-cell: up to 2.9 hr; 6-cell: up to 4.5 hr

**Chipset**

Mobile Intel H55M Express Chipset

One ExpressCard/34

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, one miniSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**PCIe Mini Card**

Two PCI Express Mini Card slots

Intel 1000 W iMAX (only some)

**Gobi™ 2000**

Some: Wireless WAN, Qualcomm card, PCIe Mini Card, EV-DO Rev.A, GPRS/WCDMA/HSPA, GPS, contract required with service provider

Some: AT&T™, contract required with service provider

**Carrier Modem**

None

**Bluetooth™**

Some: Bluetooth 2.1 wireless

**Ethernet**

Realtek® RTL8111DL Gigabit Network Connection

**Intel AMT**

None

**Audio support**

High Definition (HD) Audio, Realtek AC97 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**

Some: UPEK Fingerprint reader on palm rest, swipe sensor

**Limited warranty**

1-year - depot repair service / service upgrades available

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

Preloaded operating system:

- Some: Genuine Windows 7
- Home Premium 64
- Some: Genuine Windows 7 Professional 32
- Some: Genuine Windows 7 Professional 64

Preloaded applications (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

Supports ThinkVantage technologies

65-watt AC adapter

EPAT™ Gold rating

ENERGY STAR® 5.0-compliant

RoHS-compliant

International Warranty Service

24 hour x 7 day toll-free support during the warranty period via 800-426-7378

Lenovo.com/thinkplus/warranty
### Specification Table

<table>
<thead>
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<th>Type-model</th>
<th>Processor</th>
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<th>Memory</th>
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### Additional Information

- ThinkPad models are part of the US TopSeller™ Program.
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR).
- Preloaded operating system:
  - Some: Genuine Windows 7
  - Some: Genuine Windows 7 Professional 32
  - Some: Genuine Windows 7 Professional 64
- Preloaded applications (only some listed):
  - Rescue and Recovery™
  - Access Connections™
  - Password Manager
  - ThinkVantage Power Manager
  - ThinkVantage System Update
  - ThinkVantage Toolbox
  - Norton™ Internet Security 2011
  - Adobe® Reader®
  - Adobe Flash® Player
  - Skype™ for Windows
  - Microsoft Office 2010 preloaded: purchase product key to activate
  - Microsoft Research AutoCollage Touch
- Supports ThinkVantage® technologies:
  - Mobile Intel HM55 Express Chipset
    - Mobile Intel Chipset
    - ExpressCard/34
    - 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, 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
    - 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@75Hz
- Sockets available:
  - One socket available for standard memory in one socket; no sockets available
- Preloaded applications:
  - 22 1-year LOR
  - 24 hour x 7 day toll-free support during the warranty period via 800-426-7378
- Lenovo Technology
- Limited warranty
  - 1-year - depot repair service / service upgrades available

See footnotes for important warranty information.

US models announced July 6, 2010.
US models withdrawn effective October 2010 or June 2011.

© Lenovo (LDN1-5) June 2011
**ThinkPad® Edge 15" 0301 (Intel) - TopS (Win 7) - Jan 2011 - withdrawn**

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

**Positioning Processor**

Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i3 processor i3-380M or i3-390M with dual-core.

DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5-480M with dual-core.

DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache

**Memory**

- 2GB or 4GB std / 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;
- Italic: standard memory in both sockets; no sockets available;
- Non-italic: standard memory in one socket; one socket available

**SATA DVD RW SATA disk**

DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 250GB® (5400 rpm), 320GB (7200 rpm), or 500GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™

**Widescreen display**

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, 2.0-megapixel, fixed focus

**Keyboard**

6-row, spill-resistant, multimedia F keys

**Touchpad**

TrackPoint® pointing device, Internet Scroll Bar

**ThinkLight™**

- 15.6"W (WxHxD): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32-37.5mm
- 4-cell: from 5.32 lb (2.42kg); 6-cell: from 5.50 lb (2.50kg); 9-cell: from 5.89 lb (2.67kg)
- Matte black (top), trimmed with a thin silver band (side); black bottom
- 2048x1536@75Hz; 1920x1080 (HDMI port)

**Thinkpad ExpressCard/34 Multicard Reader**

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 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; Max external resolution: 2048x1536@75Hz; 1920x1080 (HDMI port)

**PCle Mini Card**

Two PCI Express Mini Card slots

- 11b/g/n wireless, ThinkPad 11b/g/n, PCle Half Mini Card Slot
- None: None

**Intel 1000 WWAN upg**

None

**Bluetooth™**

Some: 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

**Fingerprint reader**

Some: UPEK Fingerprint reader on palm rest, swipe sensor

**Limited warranty 1-year - depot repair service / service upgrades available**

See footnotes for important warranty information

US models announced January 11, 2011

US models withdrawn effective June 2011

© Lenovo (LDN1-7) June 2011
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<td>6</td>
<td>Home P 64</td>
<td>Jul 10</td>
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</tr>
</tbody>
</table>

Additional information:
- **Preloaded operating system**:
  - Some: Genuine Windows® 7
  - Some: Genuine Windows® 7 Professional 64

- **Preloaded applications**:
  - Rescue and Recovery™
  - Microsoft® Office 2010 Professional 64
  - Adobe® Flash® Player
  - Skype™ for Windows

- **Supports ThinkVantage® technologies**

- **Battery life**: up to 4.5 hours

- **Display**: WXGA+ (1440x900), WXGA (1280x800), HD (1366x768), WXGA+ (1600x900)

- **Processor**: AMD AthlonTM II Dual-Core Mobile Processor P320 or AMD TurionTM II Dual-Core Mobile Processor P620

- **Memory**: DDR3 1333MHz, 4GB standard / 8GB max, 256-bit buswidth

- **Storage**: 500GB (7200 rpm), 320GB (5400 rpm), 250GB (5400 rpm)

- **Networking**: Fast Ethernet, Realtek RTL8111DL Gigabit Network Connection

- **Audio**: HD (1366x768) color, VibeOn notebook speakers, 1.5 watt x 2

- **Security**: UPEK Fingerprint reader on palm rest, swipe sensor

- **Software Preload**: Microsoft® Office 2010, Adobe® Reader®, Adobe® Flash® Player, ThinkVantage® Toolbox

- **Post-warranty annual maintenance agreements**: available at lenovo.com/thinkplus/warranty

See footnotes for important warranty information.

- Lenovo

US models announced June 22 or July 6, 2010

US models withdrawn effective December 2010

See footnotes for important warranty information.
### 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** | **PCIe Mini Card 802.11** | **Top color** | **Fingerprint reader** | **Blue-tooth** | **Battery cells** | **Preload** | **Available 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**

- Sophisticated design with quality, durability and reliability for SMB customers; two spindles
- AMD® Athlon™ II Dual-Core Mobile Processor P340 or P360 with dual-core, virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache
- AMD Turion™ II Dual-Core Mobile Processor P540 or P560 with dual-core, virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache
- AMD Phenom™ II Triple-Core Mobile Processor P840 with triple-core, virtualization technology, integrated DDR3 memory controller, and 1.5MB L2 cache

### Memory

- 2GB or 4GB std / 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
- Non-italics: 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
- 320GB (7200 rpm) or 500GB (5400 rpm)
- SATA 3.0GB/s, 2.5" wide, 9.5mm high, removable, upgradeable, Active Protection System™

### Widescreen display

- Some: 15.6" (395mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- Some: 15.6" (395mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

### Camera

- Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus

### Integrated graphics

- ATI™ Radeon™ HD 4250 graphics, 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; Max external resolution: 2456x1536@60Hz

### Keyboard

- 6-row, spill-resistant, multimedia Fn keys
- TrackPoint® pointing device, Internet Scroll Bar™
- UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch
- None

### Dimensions

- 15.6"W (WxDxH): 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm
- 4-cell: from 5.40 lb (2.45kg); 6-cell: from 5.58 lb (2.53kg); 9-cell: from 5.95 lb (2.70kg)
- Black top (or) glossy black (top), trimmed with a thin silver band (side); black bottom
- Acrylonitrile-Butadiene-Styrene (ABS) plastic
- Lithium Ion 6-cell
- 4-cell: up to 2.6 hr; 6-cell: up to 4 hr; 9-cell: up to 6 hr

### Chipset

- AMD® RS880M Chipset, SB880M 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)
- One PCI Express Half Mini Card slot
- One PCI Express Half Mini Card slot
- None
- Realtek® RTL8111DL Gigabit Network Connection
- Realtek® ALC269 codec / stereo speakers, 1.5 watt x 2 /
- mono digital microphone, combo audio/mic jack
- Power-on password, hard disk password, supervisor password, security keyhole
- None
- None

### Limited warranty

- 1-year - depot repair service / service upgrades 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

Preloaded operating system

- Some: Genuine Windows® 7
- Some: Genuine Windows 7

Preloaded applications (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 preload; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage™ technologies

- 65-watt AC adapter
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant
- RoHS-compliant
- International Warranty Service
- 24 hour x 7 day toll-free support during the warranty period via 800-426-7378

Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

Lenovo (LDN1-6) October 2011

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

**Personal Systems Reference (PSREF)**

### Type-models

<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk capacity</th>
<th>PCle Mini Card</th>
<th>PCle Mini Card WAN Carrier</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery type</th>
<th>Preload</th>
<th>Ann date (mm/yyyy)</th>
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<td>12/11</td>
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</table>

### Preloaded operating system
- Some: Genuine Windows® 7 Home Premium 64
- Some: Genuine Windows 7 Professional 64

### Preloaded applications (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

### Positioning Processor
- Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Pentium® processor P6100 or P6200 with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), 3MB cache or Intel Core™ i3 processor i3-370M or i3-380M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost (3.0GHz), Hyper-Threading technology; 3MB cache.

### Memory
- 2GB or 4GB std / 8GB max
- Parity, dual-channel capable, two 204-pin SO-DIMM sockets; no sockets available.
- Standard memory in both sockets; no sockets available.
- Non-Parity: standard memory in one socket; one socket available.

### Widescreen display
- Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- Some: 15.6" (396mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

### Camera
- Camera on top of screen, 0.3 or 2.0-megapixel, fixed focus

### Integrated graphics
- Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display.
- Max external resolution: 2048x1536 @ 75Hz; 1920x1080 (HDMI port)

### Keyboard
- 6-row, spill-resistant, multimedia Fn keys

### TrackPoint
- TrackPoint pointing device, Internet Scroll Bar™

### ThinkLight™
- UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch

### Dimensions³
- 15.6"Wx (WxDxH): 14.96" x 9.72" x 1.27-1.48"
- 380 x 247mm x 32.3-37.5mm

### Weight²
- 250GB (5400 rpm), 320GB (5400 rpm or 7200 rpm) or 500GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Intel Express Protection System™

### Battery - type ²
- Lithium Ion 6-cell
- 4-cell (32Whr): up to 2.9 hr, 6-cell (48Whr): up to 4.5 hr

### Chipset ExpressCard/34
- Mobile Intel HM55 Express Chipset
- One ExpressCard/34

### Multicard Reader ²
- 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)

### PCle Mini Card ²
- Two PCI Express Mini Card slots
- 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, 1x1

See footnotes for important warranty information

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US model(s) announced May 10, August 30, or December 13, 2011; or February 28, 2012

US model(s) withdrawn effective June 2012

(LDN-8) February 2013
Memory
2GB PC3-10600 DDR3-L SODIMM 55Y3710 ann 03/02/10
2GB PC3-10600 DDR3-L SODIMM (25Pack) 57Y4416 ann 03/02/10
4GB PC3-10600 DDR3-L 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 11/18/09
USB 3.0 Secure 500GB Hard Drive 0A66519 ann 11/29/11
USB 3.0 Secure 750GB Hard Drive 0A66516 ann 11/29/11
USB 3.0 Secure 1TB Hard Drive 0A66521 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 03/22/10

Keyboard
TrackPoint Cap Collection 73P2698 ann 12/16/03
Ultrasonic Plus Wireless Keyboard and Mouse 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 N59012 (blk) 57Y6336
  12 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 0A36188 ann 12/20/11
  11 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
Lenovo Security Cable Lock 57Y4303 ann 08/24/10
USB Gemplus GemPC Smart Card Reader 41N3040 ann 02/21/06

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

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

Batteries
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 40Y7625 ann 08/20/05
  45 Requires the ThinkPad 90W AC Adapter 40Y7659 or the adapter provided with the system.

More information at www.lenovo.com/alladaycomputing

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

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

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493
  • iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07
  • Generic Micro USB charge tip (L14) 41R4490 ann 01/06/09

More information at www.lenovopowerkits.com

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

Monitors
ThinkVision L1711p 17" (VGA, DVI-D) 5047HB8 ann 10/20/09
ThinkVision L1900p 19" (VGA, DVI-D) 4431HE4 ann 11/11/08
ThinkVision L1950p Wide 19" (VGA, DVI-D) 4448M96 ann 09/13/11
ThinkVision L2250p Wide 22" (VGA, DVI-D) 2572HB8 ann 10/20/09
ThinkVision L2251x Wide 22" (VGA, DVI-D) 2578HB6 ann 10/20/09
ThinkVision L2252p Wide 22" (VGA, DVI-D) 2572M86C ann 09/13/11
ThinkVision L2450p Wide 24" (VGA, DVI-D) 2442M80 ann 09/13/11
  55 DisplayPort cable is not included.
ThinkVision LT1421 14" Mobile Monitor
  with Protective Screen Cover (USB 2.0) 415DS6 ann 08/16/11
ThinkVision LT2052p Wide 20.5" (VGA, DVI-D) 4426M80 ann 09/13/11
ThinkVision LT2452p Wide 24" (VGA, DVI-D) 4400M82 ann 09/13/11

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

Monitor Accessories
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
  45 Compatible on selected Lenovo and ThinkVision monitors.

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

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

© Lenovo
(0-Edge15) February 2013
## ThinkPad® Edge E520 1143 (Intel) - TopSeller - withdrawn

### Technical Specifications

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk</th>
<th>SATA GB</th>
<th>rpm</th>
<th>PCIe Mini Card</th>
<th>mSATA</th>
<th>WWAN</th>
<th>Carrier</th>
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<th>Finger print reader</th>
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### Preloaded System
- **SMB models**, part of the US TopSeller Program
- **Microsoft Office 2010 Product Key Ready (O10PKR)**

### Positioning

- **Processor**: Sophisticated design with quality, durability and reliability for SMB customers; two spindles
- **Intel Core™ 13-2310M processor (dual-core, 2.10GHz, 3MB Cache)**
- **Intel Core i3-2350M processor (dual-core, 2.10GHz, 3MB Cache)**
- **Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB Cache)**
- **Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache)**
- **Intel Core i5-2520M processor (dual-core, 2.50GHz, 3MB Cache)**

### Memory

- 8GB max / 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
- **HD DVD Drive**: SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradeable, Shock Mounted Hard Drive, Active Protection System™
- **mSATA™ SSD**: None

### Widescreen display

- **HD (1366x768) color**, anti-glare,
- **LED backlight**: 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

### Graphics

- **Intel HD Graphics 3000** in processor,
- **External analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content)**
- **supports dual independent displays**
- **Max external resolution**: 2048x1536 (VGA) @ 75Hz; 1920x1200 (HDMI) @ 60Hz

### Keyboard

- 6-row, spill-resistant, multimedia Fn keys, numeric keypad
- **TrackPoint®**: TrackPoint pointing device, Internet Scroll Bar™
- **Touchpad**: UltraNav™, wide touchpad below keyboard, Tap zones, multi-touch
- **ThinkLight™**: None

### Dimensions

- **15.6" (396mm)** (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm
- **Weight**: 6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg)
- **Case material**: Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
- **Battery - type**: Lithium Ion 6-cell or 9-cell
- **Battery - life**: 6-cell (48Whr): up to 6.2 hr.; 9-cell (94Whr): up to 11.7 hr

### Chipset

- **Mobile Intel HM65 Express Chipset**

### ExpressCard

- **One ExpressCard/34**

### Multicard Reader

- **4-in-1 reader** (MMC, SD, SDHC, SDXC)

### Ports

- **Three USB 2.0 (one powered), one USB 2.0/eSATA combo port**, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
- **PCIe Mini Card WLAN**: Two PCIe Express Mini Card slots
- **WWAN**: None
- **Modem**: None
- **Bluetooth™**: None
- **Ethernet**: Realtek® RTL8111E Gigabit Network Connection
- **Audio support**: High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2
- **Security**: Power-on password, hard disk password, supervisor password, security keyhole
- **Security chip**: None
- **Fingerprint reader**: Some: UPEK Fingerprint reader on palm rest, swipe sensor

### Limited warranty

- **1-year** - depot repair service / service upgrades available

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

US model(s) withdrawn effective September 2012

See footnotes for more detailed information

[For Lenovo® service upgrade options, please go to S-EDGE sheet]

[For compatible accessories, please go to O-E520 sheet]

For Lenovo22 service upgrade go to O-E520 sheet; For compatible accessories, please go to S-EDGE sheet

Genuine Windows 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 - Some: Genuine Windows 7 Professional 64

Ready to install applications (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 DVD MovieFactory™ Lenovo Edition (DVD: RW)

For Lenovo22 service upgrade options, please go to S-EDGE sheet

- 65-watt AC adapter
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant RoHS-compliant
- International Warranty Service 24 hour x 7 day18 toll-free support during the warranty period

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

- Some: Genuine Windows 7 Home Premium 64
- Some: Genuine Windows 7 Professional 64

- For Lenovo22 service upgrade options, please go to S-EDGE sheet

- Preloaded operating system
- - Some: Genuine Windows 7 Home Premium 64
- - Some: Genuine Windows 7 Professional 64

- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

- Preloaded applications (only some listed)
- 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 DVD MovieFactory™ Lenovo Edition (DVD: RW)
**ThinkPad® Edge E525 1200 (AMD) - TopSeller - withdrawn**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>widescreen display</th>
<th>Disk</th>
<th>PCIe Mini Card</th>
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- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **Microsoft® Office 2010 Product Key Ready (010PKR)**

Positioning Processor  
Sophisticated design with quality, durability and reliability for SMB customers; two spindles

**AMD Accelerated Processor E2-3000M** (dual-core, 1.80GHz, 1MB L2 cache),
integrated AMD Radeon™ HD 6380G Graphics, AMD Turbo Core technology (up to 2.40GHz),
integrated DDR3 memory controller (up to 1333MHz)

**AMD Accelerated Processor A4-3300M** (dual-core, 1.90GHz, 2MB L2 cache),
integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz),
integrated DDR3 memory controller (up to 1333MHz)

**AMD Accelerated Processor A4-3305M** (dual-core, 1.90GHz, 1MB L2 cache),
integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz),
integrated DDR3 memory controller (up to 1333MHz)

Memory  
8GB max / 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, upgradeable, Shock Mounted Hard Drive, Active Protection System™

Widescreen display  
15.6" (396mm) HD (1366x768) color, anti-glare,
LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

Camera  
HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator

Graphics  
**AMD Radeon HD Graphics** in processor,
external analog monitor support via VGA DB-15 connector and
digital monitor support via HDMI™ (supporting HDCP to output protected content);
supports dual independent display;
Max external resolution: 1920x1200 (VGA)@60Hz; 1920x1080p (HDMI)@60Hz

Keyboard  
6-row, spill-resistant, multimedia Fn keys, numeric keypad

Touchpad  
TrackPoint® pointing device, Internet Scroll Bar™
UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch

ThinkLight™  
None

Dimensions³  
15.6"W (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)

Case material  
Acrylonitrile-Butadiene-Styrene (ABS) plastic

Battery - type ⁷  
Lithium Ion 6-cell or 9-cell

Battery - life ⁷  
6-cell (48Whr): up to 3.75 hr; 9-cell (94Whr): up to 7.4 hr

Chipset  
**AMD A60M FCH**

ExpressCard  
One ExpressCard/34

Multicard Reader  
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports  
Three USB 2.0 (one powered), one USB 2.0/eSATA combo port,
eexternal monitor (VGA DB-15, HDMI), ethernet (RJ-45)

Preloaded operating system³⁰  
- Some: Genuine Windows® 7
- Some: Genuine Windows 7

Preloaded applications³⁵ (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 DVD MovieFactory® Lenovo Edition (DVD±RW)

Preloaded applications³⁵ (only some listed)
- Ready to install applications³⁵ (only some listed)
  - Rescue and Recovery™
- Access Connections³⁴
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

Supports ThinkVantage® technologies

See footnotes for more detailed information
© Lenovo
US model(s) announced January 17, 2012; previous model(s) on August 30 or September 6, 2011
US model(s) withdrawn effective July 2012
ThinkPad® Edge E520, E525 Accessories

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

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

ThinkPad Expansion
- Lenovo® Essential Notebook Stand 45J9292 \(\text{ann 05/12/09}\)
- USB 2.0 Port Replicator with Digital Video 0A33942 \(\text{ann 03/22/11}\)

Keyboard
- TrackPoint Cap Collection 73P2698 \(\text{ann 12/16/03}\)
- Ultralight Plus Wireless Keyboard and Mouse \(^{32}\) 0A34032 \(\text{ann 04/05/11}\)
- USB Numeric Keypad 33L3225 \(\text{ann 05/01/00}\)
- Preferred Pro USB Keyboard 73P5220 \(\text{ann 06/21/05}\)
- Enhanced Performance USB Keyboard 73P2620 \(\text{ann 03/23/04}\)
- Lenovo Mini Wireless Keyboard N5901 \(^{32}\) (blk) 57Y6336 \(\text{ann 03/23/04}\)
- ThinkPad USB Keyboard with TrackPoint 55Y9003 \(\text{ann 08/18/09}\)
- Lenovo USB Fingerprint Keyboard 73P4730 \(\text{ann 02/22/05}\)
- Lenovo USB Smartcard Keyboard 51J1055 \(\text{ann 03/24/09}\)

Mouse
- ThinkPad Bluetooth Laser Mouse 0A36407 \(\text{ann 06/26/12}\)
- Lenovo Optical Mouse (USB) 06P4069 \(\text{ann 05/21/03}\)
- Lenovo Laser Mouse (USB) 41U3074 \(\text{ann 01/23/07}\)
- ThinkPad USB Laser Mouse 57Y4635 \(\text{ann 12/15/09}\)
- Lenovo ScrollPoint® Mouse (USB, Optical) 31P7405 \(\text{ann 08/27/02}\)
- ThinkPad Travel Mouse (USB, Optical) 31P7410 \(\text{ann 06/04/02}\)
- Lenovo Wireless Laser Mouse \(^{32}\) 0A36188 \(\text{ann 12/20/11}\)
- Lenovo USB Laser Mouse \(^{32}\) 0A36188 \(\text{ann 12/20/11}\)

Security
- 3M 15.6" Privacy Filter from Lenovo 0A61771 \(\text{ann 04/05/11}\)
- Kensington® MicroSaver® Cable Lock 73P2582 \(\text{ann 12/29/03}\)
- Lenovo Security Cable Lock 57Y4303 \(\text{ann 08/24/10}\)
- USB Gemplus GemPC Smart Card Reader 41N3040 \(\text{ann 02/21/06}\)

Multimedia
- ThinkPad In-Ear Headphones with mic 57Y4488 \(\text{ann 01/07/10}\)
- Lenovo Mini Speakers M220 55Y2033 \(\text{ann 01/07/10}\)

Modem
- USB 2.0 Lenovo Modem 43R1814 \(\text{ann 02/26/08}\)

Batteries\(^{37}\)
- ThinkPad Battery 25 (4-cell) 51J0498 \(\text{ann 10/22/09}\)
- ThinkPad Battery 25+ (6-cell) 51J0499 \(\text{ann 10/22/09}\)
- ThinkPad Battery 25++ (9-cell) 51J0500 \(\text{ann 10/22/09}\)
- ThinkPad External Battery Charger \(^{44}\) 40Y7625 \(\text{ann 09/20/05}\)

More information at www.lenovo.com/aldaycomputing

ThinkPad 65W AC Adapter \(^{45}\) 40Y7659 \(\text{ann 09/20/05}\)

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

ThinkPad Business Topload Case 43R2476 \(\text{ann 05/13/08}\)
- ThinkPad Bays Expand Case 43R2482 \(\text{ann 05/13/08}\)
- ThinkPad Deluxe Expander Case 43R2478 \(\text{ann 05/13/08}\)
- ThinkPad Executive Leather Case 43R2480 \(\text{ann 05/13/08}\)
- Lenovo Sport Backpack - Red 0A33896 \(\text{ann 02/28/12}\)
- Lenovo Sport Slimcase - Blue 0A47300 \(\text{ann 08/28/12}\)
- Lenovo Sport Messenger - Blue 0A47301 \(\text{ann 08/28/12}\)
- Lenovo Sport Messenger - Grey 0A47302 \(\text{ann 08/28/12}\)

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

Monitors
- ThinkVision® L1711p 17" (VGA, DVI-D) 5047HB2 \(\text{ann 10/20/09}\)
- ThinkVision L1900p 19" (VGA, DVI-D) 4431HE1 \(\text{ann 11/11/08}\)
- ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)\(^{36}\) 2448MB6 \(\text{ann 09/13/11}\)
- ThinkVision L2250p Wide 22" (VGA, DVI-D) 2572HB6 \(\text{ann 10/20/09}\)
- ThinkVision L2251x Wide 22" (VGA, DP) 2578HB6 \(\text{ann 10/20/09}\)
- ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)\(^{36}\) 2572MB6 \(\text{ann 10/20/09}\)
- ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)\(^{36}\) 4420MB2 \(\text{ann 09/13/11}\)

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

Monitor Accessories\(^{46}\)
- Lenovo USB Soundbar 0A36190 \(\text{ann 05/01/12}\)
- Lenovo HDMI to HDMI Monitor Cable 0B47071 \(\text{ann 05/25/12}\)
- Lenovo HDMI to VGA Monitor Cable 0B47070 \(\text{ann 06/26/12}\)
- Lenovo USB-to-DVI Monitor Adapter 45K5296 \(\text{ann 05/12/09}\)
- Kensington MicroSaver Cable Lock 73P2582 \(\text{ann 12/29/03}\)
- Kensington Twin Head Cable Lock 45K1620 \(\text{ann 09/30/08}\)
- Lenovo Security Cable Lock 57Y4303 \(\text{ann 08/24/10}\)
- Lenovo Easy Reach Monitor Stand 55Y9258 \(\text{ann 09/22/09}\)

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

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

© Lenovo

(O-E520) February 2013
ThinkPad® SL300 2738 (GMA) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Integrated graphics</th>
<th>Disk</th>
<th>SATA</th>
<th>Mini PCIe 802.11</th>
<th>Mini PCIe WWAN</th>
<th>Mini PCIe UWB or Turbo boost Preload</th>
<th>Battery</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2738-4BU T5670 1.80 2GB 13.3&quot; WXGA Glossy Cam</td>
<td>Intel® Core™ 2 Duo processor T5670 or T5870 with dual-core, 600MHz system bus, and 2MB L2 cache</td>
<td>2GB standard memory in both sockets; no sockets available; Not available</td>
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<td>2738-44U P8400 2.26 2GB 13.3&quot; WXGA Glossy Cam</td>
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<td>2738-43U P8400 2.26 2GB 13.3&quot; WXGA Glossy Cam</td>
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</tbody>
</table>

Processor

Preloaded operating system:
- Some: Genuine Windows® XP Professional preinstalled via downgrade rights in Windows Vista® Business
- Some: Genuine Windows Vista Home Premium
- Some: Genuine Windows Vista Home Basic

Vista models: Vista Premium logo

Preloaded applications (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)
- Power 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)

65-watt (GMA graphics) AC adapter RoHS-compliant

International Warranty Service of 24 hour x 7 days toll-free support during the warranty period via 800-426-7378

ThinkPlus™ 1-year LOR 9x5 NBD
45K968

ThinkPlus™ 2-year LOR 9x5 NBD
45K969

ThinkPlus 3-year LOR 9x5 NBD
45K970

ThinkPlus 4-year LOR 9x5 NBD
45K973

ThinkPlus 5-year LOR 9x5 NBD
45K975

ThinkPlus 2-year P&L P/U Depot
45K971

ThinkPlus 3-year P&L P/U Depot
45K972

ThinkPlus 4-year P&L P/U Depot
45K974

ThinkPlus 5-year P&L P/U Depot
45K976

Post-warranty annual maintenance agreements available at lenovo.com/thinkplus/warranty

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

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Disk</th>
<th>Mini PCIe</th>
<th>Mini PCIe</th>
<th>Mini PCIe</th>
<th>Finger</th>
<th>Limited warranty*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2738-A2U T5870 2.00 2GB 13.3&quot; WXGA Glossy</td>
<td>Intel® Core™ 2 Duo processor T5870 with dual-core, 800MHz system bus, and 2MB L2 cache</td>
<td>1GB, 2GB, or 3GB std / 4GB max7 / PC2-5300 667MHz DDR2, non-parity, Intel HD boost, 1066MHz system bus, and 3MB L2 cache</td>
<td>MGA 160G 5400</td>
<td>DVD:RW</td>
<td>* Intel® 5100™ WWAN upg</td>
<td>None</td>
<td>Blue Fing</td>
<td>1-year - depot repair service / service upgrades** available</td>
</tr>
<tr>
<td>2738-A3U T5870 2.00 2GB 13.3&quot; WXGA Glossy</td>
<td>Intel® Core™ 2 Duo processor P8600 with dual-core</td>
<td>1GB, 2GB, or 3GB std / 4GB max7 / PC2-5300 667MHz DDR2, non-parity, Intel HD boost, 1066MHz system bus, and 3MB L2 cache</td>
<td>MGA 160G 5400</td>
<td>DVD:RW</td>
<td>* Intel® 5100™ WWAN upg</td>
<td>None</td>
<td>Blue Fing</td>
<td>1-year - depot repair service / service upgrades** available</td>
</tr>
<tr>
<td>2738-A4U T5870 2.00 3GB 13.3&quot; WXGA Glossy Cam</td>
<td>Intel® Core™ 2 Duo processor P8600 with dual-core</td>
<td>1GB, 2GB, or 3GB std / 4GB max7 / PC2-5300 667MHz DDR2, non-parity, Intel HD boost, 1066MHz system bus, and 3MB L2 cache</td>
<td>MGA 250G 5400</td>
<td>DVD:RW</td>
<td>* Intel® 5100™ WWAN upg</td>
<td>None</td>
<td>Blue Fing</td>
<td>1-year - depot repair service / service upgrades** available</td>
</tr>
<tr>
<td>2738-2JU P8600 2.40 2GB 13.3&quot; WXGA Glossy Cam</td>
<td>Intel® Core™ 2 Duo processor P8600 with dual-core</td>
<td>1GB, 2GB, or 3GB std / 4GB max7 / PC2-5300 667MHz DDR2, non-parity, Intel HD boost, 1066MHz system bus, and 3MB L2 cache</td>
<td>MGA 250G 5400</td>
<td>DVD:RW</td>
<td>* Intel® 5100™ WWAN upg</td>
<td>None</td>
<td>Blue Fing</td>
<td>1-year - depot repair service / service upgrades** available</td>
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<tr>
<td>2738-H2U P8600 2.40 2GB 13.3&quot; WXGA Glossy Cam</td>
<td>Intel® Core™ 2 Duo processor P8600 with dual-core</td>
<td>1GB, 2GB, or 3GB std / 4GB max7 / PC2-5300 667MHz DDR2, non-parity, Intel HD boost, 1066MHz system bus, and 3MB L2 cache</td>
<td>MGA 250G 5400</td>
<td>DVD:RW</td>
<td>* Intel® 5100™ WWAN upg</td>
<td>None</td>
<td>Blue Fing</td>
<td>1-year - depot repair service / service upgrades** available</td>
</tr>
<tr>
<td>2738-K5U T5870 2.00 1GB 13.3&quot; WXGA Glossy</td>
<td>Intel® Core™ 2 Duo processor T5870 with dual-core, 800MHz system bus, and 2MB L2 cache</td>
<td>1GB, 2GB, or 3GB std / 4GB max7 / PC2-5300 667MHz DDR2, non-parity, Intel HD boost, 1066MHz system bus, and 3MB L2 cache</td>
<td>MGA 160G 5400</td>
<td>DVD:RW</td>
<td>* Intel® 5100™ WWAN upg</td>
<td>None</td>
<td>Blue Fing</td>
<td>1-year - depot repair service / service upgrades** available</td>
</tr>
</tbody>
</table>

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

Processor
- Intel® Core™ 2 Duo processor T5870 with dual-core
- Intel® Core™ 2 Duo processor P8600 with dual-core

Memory
- 1GB, 2GB, or 3GB std / 4GB max7 / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets;
- *Italics:* standard memory in both sockets; no sockets available;
- Non-italics: standard memory in one socket; one socket available

SATA DVD:RW
- Some: DVD burner. SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in
- 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
- 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)

Battery - life
- 1-cell: up to 1.5 hr; 6-cell: up to 6 hr
- 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 Express 2.3, 802.11b/g/n Minicard)
- 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H)
- One slot (ExpressCard34, ExpressCard54)
- 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)

Preloaded operating system
- Some: Windows® XP Professional preinstalled through downgraded rights in Genuine Windows Vista® Business
- Some: Genuine Windows Vista Home Premium 32
- Some: Genuine Windows Vista Business 32
- 2/3U model: Vista Premium logo
- Other Vista models: Vista Basic logo

Preloaded applications
- Lenovo Care™ Tools
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage System Update
- ThinkVantage 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)

RoHS-compliant 65-watt (GMA graphics) AC adapter International Warranty Service
24 hour x 7 day toll-free support during the warranty period via 800-426-7378

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See footnotes for important warranty information

* Intel Centrino® processor technology

US models announced Dec 16, 2008,
© Intel Centrino 2 processor technology

Jan 6, 2009 or Feb 24, 2009
CAR11-1 April 2010

US models withdrawn effective September 2009 or April 2010

lenovo.com/thinkplus/warranty
### ThinkPad® SL300 2738 (NVIDIA®) - TopSeller - withdrawn

**Personal Systems Reference (PSREF)**

*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

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<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor GHz Memory</th>
<th>Wide-screen type</th>
<th>Camera Discrete graphics</th>
<th>Disk</th>
<th>SATA</th>
<th>Mini PCIe</th>
<th>Mini PCIe WWAN</th>
<th>Battery life</th>
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<tbody>
<tr>
<td>2738-22U</td>
<td>T9400 2.53 4GB 13.3&quot; WXGA Glossy Cam 9300M 320G 5400 BD burner+ Intel 5100 AT&amp;T2&lt;sup&gt;®&lt;/sup&gt;</td>
<td>13.3&quot; (338mm) WXGA (1280x800) color, Windows 7 Home Premium (64-bit), Intel Centrino® 2 processor, 1GB RAM, 128MB Intel HD graphics, 5400 rpm, 250GB hard disk drive, 5-in-1 reader (MMC, Memory Stick, Memory Stick PRO™, SD, SDHC, XD, XD Type H)</td>
<td>Camera</td>
<td>Battery - life&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Chipset Mobile Intel P4M4 Express Chipset (Memory Controller Hub), ICHOM 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)</td>
<td>ExpressCard/54 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H)</td>
<td>6-cell (WxHxD): 12.5&quot; x 9.4&quot; x 1.18&quot; - 1.33&quot;</td>
<td>10.5 hr</td>
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<tr>
<td>2738-23U</td>
<td>P8600 2.40 4GB 13.3&quot; WXGA Glossy Cam 9300M 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>13.3&quot; (338mm) WXGA Glossy Cam 9300M 320G 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Camera</td>
<td>Battery - life&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Chipset Mobile Intel P4M4 Express Chipset (Memory Controller Hub), ICHOM 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)</td>
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<td>10.5 hr</td>
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<tr>
<td>2738-42U</td>
<td>P8400 2.26 2GB 13.3&quot; WXGA Glossy Cam 9300M 160GB 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>13.3&quot; (338mm) WXGA Glossy Cam 9300M 320G 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Camera</td>
<td>Battery - life&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Chipset Mobile Intel P4M4 Express Chipset (Memory Controller Hub), ICHOM 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)</td>
<td>ExpressCard/54 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H)</td>
<td>6-cell (WxHxD): 12.5&quot; x 9.4&quot; x 1.18&quot; - 1.33&quot;</td>
<td>10.5 hr</td>
<td></td>
</tr>
<tr>
<td>2738-46U</td>
<td>P8400 2.26 2GB 13.3&quot; WXGA Glossy Cam 9300M 160GB 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>13.3&quot; (338mm) WXGA Glossy Cam 9300M 320G 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Camera</td>
<td>Battery - life&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Chipset Mobile Intel P4M4 Express Chipset (Memory Controller Hub), ICHOM 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)</td>
<td>ExpressCard/54 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H)</td>
<td>6-cell (WxHxD): 12.5&quot; x 9.4&quot; x 1.18&quot; - 1.33&quot;</td>
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<tr>
<td>2738-7CU</td>
<td>P8600 2.40 4GB 13.3&quot; WXGA Glossy Cam 9300M 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>13.3&quot; (338mm) WXGA Glossy Cam 9300M 320G 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Camera</td>
<td>Battery - life&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Chipset Mobile Intel P4M4 Express Chipset (Memory Controller Hub), ICHOM 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)</td>
<td>ExpressCard/54 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H)</td>
<td>6-cell (WxHxD): 12.5&quot; x 9.4&quot; x 1.18&quot; - 1.33&quot;</td>
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<td>2738-HBU</td>
<td>P8600 2.40 4GB 13.3&quot; WXGA Glossy Cam 9300M 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>13.3&quot; (338mm) WXGA Glossy Cam 9300M 320G 5400 BD burner+ Intel 5100 AT&amp;T&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Camera</td>
<td>Battery - life&lt;sup&gt;®&lt;/sup&gt;</td>
<td>Chipset Mobile Intel P4M4 Express Chipset (Memory Controller Hub), ICHOM 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)</td>
<td>ExpressCard/54 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H)</td>
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<td>10.5 hr</td>
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</tbody>
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**Limited warranty** - 1-year - depot repair service / service upgrades<sup>®</sup> available

---

See footnotes for important warranty information  "Intel Centrino® processor technology © Lenovo

US models announced August 12 or August 8, 2009, or February 10, 2009

US models withdrawn effective September 2008, September 2009, or April 2010

(CAR1-2) April 2010

*Lenovo®

90-watt (NVIDIA graphics) AC adapter
RoHS-compliant
Informational Warranty Service<sup>®</sup> 24 hour x 7 day toll-free support during the warranty period<sup>®</sup> via 800-426-7378

ThinkPlus<sup>®</sup> 22 1-year LOR<sup>®</sup> 9x5 NBD
ThinkPlus 2-year LOR 9x5 NBD 45K5968
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5975
ThinkPlus 5-year LOR 9x5 NBD 45K5976
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 45K5973
ThinkPlus 5-year P&L P/U Depot 45K5974
Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty
<table>
<thead>
<tr>
<th>Memory</th>
<th>1GB PC2-5300 DDR2 SODIMM</th>
<th>40Y7734</th>
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<td>2GB PC2-5300 DDR2 SODIMM</td>
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<td>2GB PC2-5300 DDR2 SODIMM (25-Pack)</td>
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<th>Storage and removable storage</th>
<th>SL 320GB Disk SATA 1.5GB/s (5400 rpm)</th>
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<td>45J7904</td>
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<td>USB 2.0 Essential Memory Key 8GB</td>
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<td>USB 2.0 Essential Memory Key 32GB</td>
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<td>USB 2.0 Ultra Secure Memory Key 1GB</td>
<td>45JS915</td>
<td>ann 08/26/08</td>
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<td>USB 2.0 Ultra Secure Memory Key 2GB</td>
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<td>USB 2.0 Ultra Secure Memory Key 4GB</td>
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<td>USB 2.0 Ultra Secure Memory Key 8GB</td>
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<td>USB 2.0 Portable 160GB Hard Disk</td>
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<td>USB 2.0 Portable Secure 320GB Hard Disk</td>
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<td>eSATA/USB 2.0 Secure 500GB Hard Drive</td>
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<td>USB 2.0 Super Multi-Burner Drive</td>
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<td>USB 2.0 Portable DVD Burner</td>
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<th>Only WWAN upgradable models:</th>
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<tr>
<td>VeriSign® WWAN UNDP Broadband Mini PCIe</td>
<td>43R9152</td>
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<tr>
<td>AT&amp;T® WWAN HSPA Broadband Mini PCIe</td>
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<tr>
<th>ThinkPad Expansion</th>
<th>Lenovo® Essential Notebook Stand</th>
<th>45J9292</th>
<th>ann 05/12/09</th>
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<tbody>
<tr>
<td>USB Port Replicator with Digital Video</td>
<td>45K1610</td>
<td>ann 07/28/09</td>
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<tr>
<th>Keyboard</th>
<th>TrackPoint Cap Collection</th>
<th>73P2698</th>
<th>ann 12/16/03</th>
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<tr>
<td></td>
<td>USB Numeric Keypad</td>
<td>3SL3225</td>
<td>ann 05/01/00</td>
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<tr>
<td>Preferred Pro USB Keyboard</td>
<td>73P5220</td>
<td>ann 06/21/05</td>
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<tr>
<td>Enhanced Performance USB Keyboard</td>
<td>73P2620</td>
<td>ann 03/26/04</td>
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<tr>
<td>UltraSlim Wireless Keyboard and Mouse</td>
<td>57Y4700</td>
<td>ann 09/15/09</td>
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<td>Wireless via 2.4GHz technology using a micro-size USB receiver</td>
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<tr>
<td>ThinkPad USB Keyboard with TrackPoint</td>
<td>55Y9003</td>
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<td>Preferred Pro USB Fingerprint Keyboard</td>
<td>73P4730</td>
<td>ann 02/22/05</td>
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<tr>
<td>Lenovo USB Smartcard Keyboard</td>
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<th>Mouse</th>
<th>Lenovo Mini Optical Mouse - Black (USB)</th>
<th>55Y9308</th>
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<tr>
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<td>Lenovo Mini Optical Mouse - White (USB)</td>
<td>55Y9309</td>
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<td></td>
<td>Lenovo Optical Mouse (USB)</td>
<td>06P4069</td>
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<td>Lenovo Laser Mouse (USB)</td>
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<td>ThinkPad USB Laser Mouse</td>
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<td>Lenovo ScrollPoint® Mouse (USB, Optical)</td>
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<td>ann 08/27/02</td>
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<td>ThinkPad Travel Mouse (USB, Optical)</td>
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<td>ThinkPad Bluetooth Laser Mouse</td>
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<tr>
<th>Security</th>
<th>Kensington® MicroSaver® Cable Lock</th>
<th>73P2582</th>
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<tbody>
<tr>
<td></td>
<td>Kensington Twin Head Cable Lock</td>
<td>45K1620</td>
<td>ann 09/30/08</td>
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<tr>
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<td>USB Gemplus GemPC Smart Card Reader</td>
<td>41N3040</td>
<td>ann 02/21/06</td>
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<td></td>
<td>ExpressCard Gemplus Smart Card Reader</td>
<td>41N3043</td>
<td>ann 06/27/06</td>
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<tr>
<td></td>
<td>Requires ExpressCard slot</td>
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| Multimedia | ThinkPad In-Ear Headphones | 57Y4488 | ann 01/07/10 |

<table>
<thead>
<tr>
<th>Batteries</th>
<th>ThinkPad Battery 41+ (6-cell)</th>
<th>40Y6799</th>
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<tr>
<td>ThinkPad Battery 41++ (9-cell)</td>
<td>40Y6797</td>
<td>ann 09/20/05</td>
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<tr>
<td>ThinkPad External Battery Charger</td>
<td>40Y7625</td>
<td>ann 09/20/05</td>
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<tr>
<td>Requires the ThinkPad 90W AC Adapter</td>
<td>40Y7659</td>
<td>or the adapter provided with the system.</td>
<td></td>
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</tbody>
</table>

More information at www.lenovo.com/aldaycomputing

ThinkPad 65W AC Adapter | 40Y7696

Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter | 40Y7659 | ann 09/20/05

90W Ultraslim AC/DC Combo Adapter | 41R4493 | ann 09/22/09

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

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

BlackBerry charge tip (L8a) | 41R4481 | ann 12/18/07
| Generic Micro USB charge tip (L18) | 41R4490 | ann 01/06/09

More information at www.lenovopowertips.com

Carrying Cases

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

Up to 15.4" widescreen models:
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 05/01/07

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

Monitors

ThinkVision® L1711p 17" Monitor | 5047HB2 | ann 10/20/09

ThinkVision L1900p 19" Monitor | 4431H1E1 | ann 11/11/08

ThinkVision L1951p Wide 19" Monitor | 2448H86 | ann 10/20/09

ThinkVision L2250p Wide 22" Monitor | 2572H86 | ann 10/29/09

ThinkVision L2251p Wide 22" Monitor | 2572H86 | ann 10/29/09

ThinkVision L2251x Wide 22" Monitor | 2578H86 | ann 10/29/09

ThinkVision L2440p Wide 24" Monitor | 4420H2B | ann 09/17/08

Monitor Accessories

ThinkVision 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 05/05/09

Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on ThinkPad SL accessories, please visit:
www.lenovo.com/support/accessories

www.lenovo.com/support/notebookaccessories

www.lenovo.com/support/security

Other accessaries at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Celeron processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>CCFL or LED</th>
<th>Screen/Cam-Integrated Graphics</th>
<th>Disk</th>
<th>Mini PCI Express</th>
<th>Mini PCI Express WWAN</th>
<th>Mini PCI Express UWB</th>
<th>Mini PCI Express Blue-</th>
<th>Bat-</th>
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<td>2743-9YU</td>
<td>Cel 585</td>
<td>2.16</td>
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<td>XP Pro Mar 09</td>
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- **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

**Memory**

1GB std / 4GB max / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; Non-italics: standard memory in one socket; one socket available

**SATA DVD/ RW**

DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 80GB (5400 rpm) or 160GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, 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
Some: 14.1" (358.1mm) WXGA (1280x800) color, VibrantView (glossy), LED backlight, high brightness 680 nits, 16:10 aspect ratio, 300:1 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 (DB-15 port); 1920x1080 (HDMI port)*

**Keyboard**

6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys, Windows and App keys

**TrackPoint®**

TrackPoint® pointing device, Internet Scroll Bar™, 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**

6-cell 14.1"W (358.1mm) × 9.7"H (247mm) × 1.34–1.46"D (34–37mm)

**Weight**

Color: black; integrated: scratch-resistant ABS plastic, high-gloss top cover

**Battery - type**

Lithium Ion 6-cell

**Battery - life**

6-cell: up to 4.1 hr; 9-cell: up to 6 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**

One slot (ExpressCard/34, ExpressCard/54)

**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**

Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RJ-11), ethernet (RJ-45), Mobile Intel GL40 Express Chipset

**Mini PCI Express 11b/g**

Three Mini PCI Express slots

**WWAN upg**

11b/g wireless®, ThinkPad 11b/g Mini PCI Express Adapter III, Atheros AR5007EG

**2G Turbo**

None

**UWB**

None

**Modem**

56K V.92® modem

**Bluetooth®**

None

**Ethernet**

Realtek RTL8111C Gigabit Network Connection, PHY, PCI x1

**Intel AMT**

None

**Audio support**

High Definition (HD) Audio, CODEC: stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack

**Security chip**

Power-on password, hard disk password, supervisor password, security keyhole

**Fingerprint reader**

None

**Limited warranty**

1-year - depot repair service / service upgrades® available

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Preloaded operating system®

- Some: Windows® XP Professional preinstalled through downgrades rights in Genuine Windows Vista® Business
- Some: Genuine Windows Vista Home Basic 32

Vista models: Vista Basic logo

Preloaded applications® (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)

65-watt (GMA graphics) AC adapter RoHS-compliant

International Warranty Service®

24-hour x 7 day 7/24 free support during the warranty period® via 800-426-7378

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(CAY1-3) April 2010

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
<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Core™ 2 Duo processor</th>
<th>T5670 or T5870 with dual-core.</th>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>16GB 2GB std / 4GB max / PC2-5300 667MHz D4122, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; Italics: standard memory in both sockets; no sockets available or Non-Italics: standard memory in one socket; one socket available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sata Combo</td>
<td>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 (5400 rpm), 250GB (5400 rpm) or SATA 1.5GB/s, 9.5mm high, removable, upgradeable, ThinkPad Shock Mounted Hard Drive, Active Protection System™</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Widescreen display</td>
<td>Some: 14.1” (358.16mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio or Some: 14.1” (358.16mm) WXGA (1280x800) color, VibrantView (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Camera</td>
<td>Some: camera on top of screen, 2-megapixel, fixed focus</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Preloaded operating system**

**Preloaded applications**
- Lenovo Care Tools or Rescue and Recovery™ or Access Connections™
- Password Manager or ThinVantage System Update or Lenovo Care
- FingerPrint Software or McAfee VirusScan™ Plus with SiteAdvisor™ (30 days of virus definitions)
- PC-Doctor® (diagnostics) or ThinkPad Utilities or Adobe® Reader or Windows Live™ Toolbar and Search or Microsoft® Office 2007 Trial (60-day) or Roxio® Creator® Small Business Edition or Roxio® MyDVD® (combo, DVD+RW) or Corel® WinDVD® (combo, DVD+RW)

65-watt (GMA graphics) AC adapter RoHS-compliant International Warranty Service 24 hour x 7 day toll-free support during the warranty period via 800-426-7378

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**Mini PCI Express**
- Intel 5100®
- WAN upg AT&T®
- Some: Wireless WAN, Ericsson chipset, Mini PCI adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T®
- Some: Wireless LAN/WAN, Intel Turbo Memory, Half-Mini PCI adapter, 2GB flash, disk-cache accelerator
- None

**2G Turbo UWB**
- Modem 56K V.92® modem or Bluetooth™
- Some: Bluetooth 2.0 wireless, LED indicator or Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1 or None

**Audio support**
- High Definition (HD) Audio, CX20561-152 codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack or None

**Security**
- Power-on password, hard disk password, supervisor password, security keyhole or None

**Fingerprint reader**
- Fingerprint reader on palm rest, swipe sensor, supports the security chip

**Limited warranty**
- 1-year - EasyServ™-19 depot repair service / service upgrades® or Lenovo.com/thinkplus/warranty

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Footnotes:
- * Intel Centro® processor technology
- ** US models announced July 15, July 29, September 30 or October 7, 2008
- © Lenovo (CAY1-1) September 2009
- Lenovo models withdrawn effective September 2008, January or September 2009
### ThinkPad SL400 2743 (GMA) - TopSeller (January 2009) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Drive</th>
<th>Display</th>
<th>Graphics</th>
<th>Mini PCI Express</th>
<th>Mini PCI Express</th>
<th>Mini PCI Express</th>
<th>Finger Printer</th>
<th>Battery type</th>
<th>Pre-adv</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2743-6GU T5870 2.00</td>
<td>Intel® Core™ 2 Duo processor T5870 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core 2 Duo processor P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache</td>
<td>2GB or 3GB std / 4GB max / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; Italics: standard memory in both sockets; no sockets available; Non-italics: standard memory in one socket; one socket available</td>
<td>SATA DVD±RW</td>
<td>DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in</td>
<td>Widescreen display</td>
<td>Some:</td>
<td></td>
<td></td>
<td>Fingerprint reader on palm rest, swipe sensor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2743-6HU T5870 2.00</td>
<td></td>
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<tr>
<td>2743-6JU T5870 2.00</td>
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<tr>
<td>2743-3WUP8600 2.40</td>
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<tr>
<td>2743-HZU P8600 2.40</td>
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<td>2743-H3U P8600 2.40</td>
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</tr>
</tbody>
</table>

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

- Preloaded operating system:
  - 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
  - 3WU model: Vista Premium logo
  - Other Vista models: Vista Basic logo

- Preloaded applications:
  - 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)

- International Warranty Service
  - 65-watt (GMA graphics) AC adapter RoHS-compliant
  - 24 hour x 7 day™ toll-free support during the warranty period via 800-426-7378

- ThinkPlus™
  - 1-year LOR® 9x5 NBD
  - 2-year LOR® 9x5 NBD
  - 3-year LOR® 9x5 NBD
  - 4-year LOR® 9x5 NBD
  - 5-year LOR® 9x5 NBD
  - 2-year P&L P/U Depot
  - 3-year P&L P/U Depot
  - 4-year P&L P/U Depot
  - 5-year P&L P/U Depot

- Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information

© Lenovo

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

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

Personal Systems Reference (PSREF) (CAY11-1) April 2010
**These small and medium business (SMB) models are part of the US TopSeller™ Program**

| Processor                                      | Memory                  | Sata DVD/
<table>
<thead>
<tr>
<th></th>
<th></th>
<th>RW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Core™ 2 Duo processor T5870 or T6570</td>
<td>2GB or 3GB std / 4GB max</td>
<td>60GB</td>
</tr>
<tr>
<td>with dual-core, 800MHz system bus,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and 2MB L2 cache or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intel Core 2 Duo processor P7570 or P8600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with dual-core, Intel HD boost,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1066MHz system bus, and 3MB L2 cache</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **Memory**                                     | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Processor**                                  | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Wirescreen display**                         | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Camera**                                     | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Integrated graphics**                        | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Keyboard**                                   | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **TrackPoint™**                                | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Lighting FX**                                | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Dimensions³**                                | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Weight³**                                    | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Battery - type**                             | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Battery - lifeî**                            | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Chipset**                                    | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **ExpressCard**                                | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Multicard Reader**                           | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **PC Card**                                    | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Smart Card Read**                            | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Ports**                                      | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Mini PCI Express**                           | **Sata DVD/
|                                                |                         | RW      |
|                                                |                         |         |
| **Intel 5100®**                                 | **Sata DVD/
|                                                |                         | RW      |
| **WWAN upg**                                   | **Sata DVD/
|                                                |                         | RW      |
| **2G Turbo**                                   | **Sata DVD/
|                                                |                         | RW      |
| **UWB**                                        | **Sata DVD/
|                                                |                         | RW      |
| **None**                                       | **Sata DVD/
|                                                |                         | RW      |
| **Modem**                                      | **Sata DVD/
|                                                |                         | RW      |
| **56K V.92 modem**                             | **Sata DVD/
|                                                |                         | RW      |
| **Bluetooth™**                                 | **Sata DVD/
|                                                |                         | RW      |
| **Some: Bluetooth 2.1 wireless, LED indicator**| **Sata DVD/
|                                                |                         | RW      |
| **Networking**                                 | **Sata DVD/
|                                                |                         | RW      |
| **PHY, PCIe x1**                               | **Sata DVD/
|                                                |                         | RW      |
| **None**                                       | **Sata DVD/
|                                                |                         | RW      |
| **Audio support**                              | **Sata DVD/
|                                                |                         | RW      |
| **Some: High Definition (HD) Audio, C20561-152** | **Sata DVD/
|                                                |                         | RW      |
| **codec / stereo speakers, 1.5 watt / volume  | **Sata DVD/
|                                                |                         | RW      |
| **up, down, mute buttons / dual array microphone, | **Sata DVD/
|                                                |                         | RW      |
| **mic input jack, headphone jack**              | **Sata DVD/
|                                                |                         | RW      |
| **Security**                                   | **Sata DVD/
|                                                |                         | RW      |
| **Power-on password, hard disk password,       | **Sata DVD/
|                                                |                         | RW      |
| **supervisor password, security keyhole        | **Sata DVD/
|                                                |                         | RW      |
| **Security chip**                              | **Sata DVD/
|                                                |                         | RW      |
| **None**                                       | **Sata DVD/
|                                                |                         | RW      |
| **Fingerprint reader**                         | **Sata DVD/
|                                                |                         | RW      |
| **Some: Fingerprint reader on palm rest,        | **Sata DVD/
|                                                |                         | RW      |
| **swipe sensor**                               | **Sata DVD/
|                                                |                         | RW      |

**See footnotes for important warranty information**

US models announced Mar 31 or Apr 7, 2009, or July 7, 2009

US models withdrawn effective April 2010

---

**Preloaded operating system**

- Some: Windows XP Professional preinstalled through downgrade rights in Genuine Windows Vista™ Business
- Some: Genuine Windows Vista Ultimate 32
- Vista models: Vista Basic logo

**Preloaded applications** (all OSes; only some listed)

- Lenovo Care™ Tools (Power Manager and Presentation Director)
- Access Connections™
- Password Manager
- ThinkVantage System Update
- Fingerprint Software (fingerprint models)
- Lenovo System Toolbox
- ThinkPad Utilities
- Adobe Reader™
- Roxio Creator™ Small Business Edition (DVD±RW)
- Corel WinDVD™ (DVD±RW)

60-watt (GMA graphics) AC adapter RRoHS-compliant

International Warranty Service 24 hour x 7 day toll-free support during the warranty period via 800-426-7378

ThinkPlus™ 1-year LOR 495698
ThinkPlus 2-year LOR 495699
ThinkPlus 3-year LOR 495870
ThinkPlus 4-year LOR 495793
ThinkPlus 5-year LOR 495873
ThinkPlus 2-year P/L P/U Depot 495597
ThinkPlus 3-year P/L P/U Depot 495598
ThinkPlus 4-year P/L P/U Depot 495594
ThinkPlus 5-year P/L P/U Depot 495600
Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty
ThinkPad SL400 2743 (NVIDIA) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

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

- A comprehensive computing solution for small and medium businesses
- Balanced between serious business computing and powerful multimedia features

### Processor

Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD boost, 1066MHz system bus; Pre-09/03/2009; 5MB L2 cache; 7940U: 6MB L2 cache

### Memory

1GB, 2GB, or 4GB std / 4GB max / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; Italics: standard memory in both sockets; no sockets available; Non-italics: standard memory in one socket; one socket available

### SATA DVD:RW

Some: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in

Intel Blu-ray burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in

16GB7 (5400 rpm), 250GB (5400 rpm), or 320GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradeable, ThinkPad Shock Mounted Hard Drive, Active Protection System™

### Widescreen display

Some: 14.1” (358.1mm) WXGA (1280x800) color, VibrantView (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio

Some: 14.1” (358.1mm) WXGA+ (1440x900) anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio

### Camera

Camera on top of screen, 2.0-megapixel, fixed focus

### Discrete graphics

NVIDIA® GeForce 9300M, PCI Express® x16, 256MB memory, HDMI port supporting HDCP to output protected content; Intel HD: 1920x1080 (HDMI port)

### Keyboard

89-key, Lenovo® Care button, spill-resistant, multimedia Fn keys

### Display

UltraNav®, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminated power button, Lenovo Care button, and red dot on ThinkPad logo

### Dimensions

Weight

6-cell 14.1W” (WxDxH): 13.2” x 0.9” x 1.40” – 1.46”, 356mm x 247mm x 34–37mm

9-cell: starting at 5.5 lb (2.5kg)

9-cell: starting at 5.9 lb (2.7kg)

### Battery - type

Lithium lon 6-cell or 9-cell

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® x1, PCI 2.3, security chip, ethernet MAC), LPC bus (IT8752 Super I/O)

### ExpressCard slot

One ExpressCard/34 or ExpressCard/54

### Multimedia Reader

7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)

### 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 slots

Three Mini PCI Express slots

11a/b/g/n wireless, Mini PCIc adapter, Intel Wi-Fi Link 5100, 1x2 (Shirley Peak)

Some: Wireless WAN upgradeable, optional AT&T® (439152)

Some: Wireless WAN, Ericsson chipset, Mini PCIc adapter and SIM, GPRS/WWCDMA/HSPA, GPS, service contract required with AT&T®

### 2G Turbo UWB

Some: Intel Turbo Memory, Half-Mini PCIc adapter, 2GB flash, disk-cache accelerator

### modem

56K V.92 modem

### Bluetooth™

Bluetooth 2.0 wireless, LED indicator

### Ethernet

Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1

### Audio

Realtek ALC269 Codec (HD), Audio Codec 2561-152 codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack

### Power

Power-on password, hard disk password, supervisor password, security keyhole

### Security chip

None

### Fingerprint reader

Fingerprint reader on palm rest, swipe sensor, supports the security chip

### Limited warranty - 1-year - EasyServ™, depot repair service / service upgrades available

1GB PC2-5300 DDR2 SODIMM 40Y7734

2GB PC2-5300 DDR2 SODIMM 40Y7735

SSL 1GB DDR DSATA 1.5Gb/s (5400 rpm) 43N3405

USB 2.0 Ultra Secure Memory Key 8GB 45J5918

USB 2.0 Portable Secure 320GB Hard Disk 40R2019

USB Port Replicator with Digital Video 45K1610

ThinkPad Convertible Monitor Stand 40Y7620

Laser Trip Wheel Travel Mouse (Bluetooth) 41J5008

Other accessories on O-SL400 sheet T/R/W/SL Series Li-Ion Battery 6-cell 40Y6799

T/R/W/SL Series Li-Ion Battery 9-cell 40Y6797

ThinkPad Small AC Adapter 41N8460

90W Slim AC/DC Combo Adapter 41N8460

ThinkPad Business Topcase 43R2476

ThinkPad Business Backpack 43R2482

ThinkVision® L2240p Wide 22” Monitor 442H86

Other accessories at lenovo.com/accessories

### Preloaded operating system

- Some: Genuine Windows® XP Professional (preinstalled)
- Some: Genuine Windows Vista Business 32
- Some: Genuine Windows Vista Ultimate

Vista models: Vista Premium logo

### Preloaded applications

- 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
- Windows Live Search
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Small Business Edition (DVD+RW)
- Roxio MyDVD® (DVD+RW)
- Corel® WinDVD® (DVD+RW, Blu-ray)
- Ulead® DVD MovieFactory® (Blu-ray)

90-watt (NVIDIA graphics) AC adapter RoHS-compliant International Warranty Service22

24 hour x 7 day23 toll-free support during the warranty period3 via 800-426-7378

ThinkPlus™22 1-year LOR® 9x5 NBD

ThinkPlus 2-year LOR 9x5 NBD 45K968

ThinkPlus 3-year LOR 9x5 NBD 45K969

ThinkPlus 4-year LOR 9x5 NBD 45K970

ThinkPlus 5-year LOR 9x5 NBD 45K973

ThinkPlus 2-year P&L P/U Depot 45K974

ThinkPlus 3-year P&L P/U Depot 45K975

ThinkPlus 4-year P&L P/U Depot 45K976

ThinkPlus 5-year P&L P/U Depot 45K977

Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information

© Lenovo

US models announced July 15 or July 29, 2008

US models withdrawn effective September 8 or September 9, 2008

(CAY1-2) September 2009
ThinkPad SL400c 4413 (GMA) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Disk</th>
<th>Mini PCIe</th>
<th>Mini PCIe</th>
<th>Finger Battery</th>
<th>Preload</th>
<th>Available date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4413-23U</td>
<td>Intel Core™ 2 Duo processor T5870 with dual-core, 800MHz system bus, and 2MB L2 cache</td>
<td>2GB std</td>
<td>SATA 802.11</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Intel Core 2 Duo processor P8700 with dual-core, Intel HD Boost 1066MHz system bus, and 3MB L2 cache</td>
<td>2GB std</td>
<td>SATA optical</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

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

Processor

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>2GB standard / 4GB max / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; Non-itals: standard memory in one socket; one socket available</td>
</tr>
<tr>
<td>SDRAM/GB/s</td>
<td>1.5GB/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™</td>
</tr>
<tr>
<td>SATA disk</td>
<td>DVD burner, SATA 1.5GB/s, 12.7mm high, fixed, not removable, tray-in</td>
</tr>
<tr>
<td>Widescreen display</td>
<td>14.1&quot; (358.1mm) WXGA (1280x800) color, VibrantView (glossy), LED backlight, high brightness 680 nits, 16:10 aspect ratio, 300:1 contrast ratio</td>
</tr>
<tr>
<td>Graphics</td>
<td>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)</td>
</tr>
<tr>
<td>Keyboard</td>
<td>6-row, Lenovo™ Care button, spill-resistant, multimedia Fn keys</td>
</tr>
<tr>
<td>TrackPoint®</td>
<td>TrackPoint® pointing device, Internet Scroll Bar®, magnifying glass</td>
</tr>
<tr>
<td>Touch pad</td>
<td>UltraNav®, wide touch pad below keyboard, Tap Zones, scrolling regions label, illuminated power button, Lenovo Care button, and red dot on ThinkPad logo</td>
</tr>
<tr>
<td>Memory</td>
<td>6-cell 14.1W (WxOxH): 13.2&quot; x 9.7&quot; x 1.34–1.46&quot;; 336mm x 247mm x 34–37mm</td>
</tr>
<tr>
<td>Weight</td>
<td>3-cell: starting at 5.5 lb (2.5kg)</td>
</tr>
<tr>
<td>Case color</td>
<td>black</td>
</tr>
<tr>
<td>Case material</td>
<td>scratch-resistant ABS plastic, high-gloss top cover</td>
</tr>
<tr>
<td>Battery - life®</td>
<td>Lithium Ion 6-cell up to 4.1 hr; 9-cell up to 6 hr</td>
</tr>
<tr>
<td>Chipset</td>
<td>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)</td>
</tr>
<tr>
<td>ExpressCard</td>
<td>One slot (ExpressCard/34, ExpressCard/54)</td>
</tr>
<tr>
<td>Multicard Reader</td>
<td>7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)</td>
</tr>
<tr>
<td>PC Card</td>
<td>None</td>
</tr>
<tr>
<td>Smart Card Reader</td>
<td>None</td>
</tr>
<tr>
<td>Ports</td>
<td>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)</td>
</tr>
<tr>
<td>Mini PCI Express</td>
<td>Three Mini PCI Express slots 11a/b/g/n wireless, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)</td>
</tr>
<tr>
<td>WWAN upg</td>
<td>None</td>
</tr>
<tr>
<td>2G Turbo</td>
<td>None</td>
</tr>
<tr>
<td>UWB</td>
<td>None</td>
</tr>
<tr>
<td>Modem</td>
<td>56K V.92® modem</td>
</tr>
<tr>
<td>Bluetooth™</td>
<td>None</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1</td>
</tr>
<tr>
<td>Intel AMT</td>
<td>None</td>
</tr>
<tr>
<td>Audio support</td>
<td>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</td>
</tr>
<tr>
<td>Security</td>
<td>Power-on password, hard disk password, supervisor password, security keyhole</td>
</tr>
<tr>
<td>Security chip</td>
<td>None</td>
</tr>
<tr>
<td>Fingerprint reader</td>
<td>Fingerprint reader on palm rest, swipe sensor</td>
</tr>
<tr>
<td>Limited warranty®</td>
<td>3-years/1-yr battery - depot repair service / service upgrades available</td>
</tr>
</tbody>
</table>

Preloaded operating system

- Genuine Windows® Vista Business 32 Vista Basic logo

Preloaded applications (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)

65-watt (GMA graphics) AC adapter RoHS-compliant

International Warranty Service™ 24 hour x 7 day® toll-free support during the warranty period via 800-426-7378

ThinkPlus® 3-5 year LOR® 9x5 NBD
- Lenovo 4-year LOR 9x5 NBD
45K6021
- Lenovo 5-year LOR 9x5 NBD
45K6022
- ThinkPlus 3-5 year LOR 9x5 NBD
45K6024
- ThinkPlus 4-year P/L Depot
45K6023
- ThinkPlus 5-year P/L Depot
45K6025

Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information

© Lenovo (CAY11C-1) April 2010
ThinkPad® SL400, SL400c Accessories

Memory
- 1GB PC2-5300 DDR2 SODIMM 40Y7734
- 1GB PC2-5300 DDR2 SODIMM (25-Pack) 51J0502
- 2GB PC2-5300 DDR2 SODIMM 40Y7735
- 2GB PC2-5300 DDR2 SODIMM (25-Pack) 51J0548

Storage and removable storage
- SL 320GB Disk SATA 1.5Gb/s (5400 rpm) 43N3405
- USB 2.0 Essential Memory Key 4GB 45J7904
- USB 2.0 Essential Memory Key 8GB 45J7905
- USB 2.0 Ultra Secure Memory Key 1GB 45J5915
- USB 2.0 Ultra Secure Memory Key 2GB 45J5916
- USB 2.0 Ultra Secure Memory Key 4GB 45J5917
- USB 2.0 Ultra Secure Memory Key 8GB 45J5918
- USB 2.0 Portable 320GB Hard Disk 45K1689
- USB 2.0 Portable 500GB Hard Disk 45K1690
- USB 2.0 Portable Secure 160GB Hard Disk 43R2018
- USB 2.0 Portable Secure 320GB Hard Disk 43R2019
- eSATA/USB 2.0 Secure 500GB Hard Drive 57Y4400
- USB 2.0 Super Multi-Burner Drive 41N5565
- USB 2.0 Portable DVD Burner 43N3264

Wireless WAN (Mini PCI Express)
- Only WWAN upgradable models:
  - Verizon® WWAN UNDP Broadband Mini PCIe 43R9151
  - AT&T® WWAN HSPA Broadband Mini PCIe 43R9192

ThinkPad Expansion
- Lenovo® Essential Notebook Stand 45J9292
- USB Port Replicator with Digital Video 45K1610

Keyboard
- TrackPoint Cap Collection 73P2698
- USB Numeric Keypad 3L3225
- Preferred Pro USB Keyboard 73P5220
- Enhanced Performance USB Keyboard 73P5260
- Ultralinx Wireless Keyboard and Mouse® 57Y4700
- ThinkPad USB Keyboard with TrackPoint 55Y9003
- Preferred Pro USB Fingerprint Keyboard 73P4730
- Lenovo USB Smartcard Keyboard 51J0155

Mouse
- Lenovo Mini Optical Mouse - Black (USB) 55Y9308
- Lenovo Mini Optical Mouse - White (USB) 55Y9309
- Lenovo Optical Mouse (USB) 06P4069
- Lenovo Laser Mouse (USB) 41U3074
- ThinkPad USB Laser Mouse 57Y4635
- Lenovo ScrollPoint® Mouse (USB, Optical) 31P7405
- ThinkPad Travel Mouse (USB, Optical) 31P7410
- ThinkPad Bluetooth Laser Mouse 41U5008

Security
- Kensington® MicroSaver® Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- USB Gemplus Gempc Smart Card Reader 41N3040
- ExpressCard Gemplus Smart Card Reader® 41N3043

Multimedia
- ThinkPad In-Ear Headphones 57Y4488

Batteries
- ThinkPad Battery 41+ (6-cell) 40Y6799
- ThinkPad Battery 41++ (9-cell) 40Y6797
- ThinkPad External Battery Charger® 40Y7625
  - Requires the ThinkPad 90W AC Adapter 40Y7659 or the adapter provided with the system.

More information at www.lenovo.com/alldaycomputing

Carrying Cases
- Up to 14” widescreen models:
  - ThinkPad 14W Case Sleeve 57Y4294
- Up to 15.4” widescreen models:
  - ThinkPad 15W Case Sleeve 51J0477

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

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493
- Palm device charge tip (L7) 41R4315
- Blackberry charge tip (L8a) 41R4478
- iPod and iPhone Charge Tip (L10a) 41R4481
- Generic Micro USB charge tip (L18) 41R4490

More information at www.lenovopowertips.com

Monitors
- ThinkVision® L1711p 17” Monitor 5047HB2
- ThinkVision L1900p 19” Monitor 4431HE1
- ThinkVision L1951p 19” Monitor 4431HE2
- ThinkVision L2250p Wide 22” Monitor 2572HB6
- ThinkVision L2251p Wide 22” Monitor 2572HB7
- ThinkVision L2440p Wide 24” Monitor 4420HB2

More information at www.lenovo.com/alldaycomputing

Monitor Accessories®
- ThinkVision USB Soundbar 40Y6716
- ThinkVision Soundbar 45K1263
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Easy Reach Monitor Stand 55Y9255
- Radial Arm 19K4464

More information on ThinkPad SL accessories, please visit:
www.lenovo.com/support/accesories
www.lenovo.com/support/notebookaccesories
www.lenovo.com/support/security

Personal Systems Reference (PSREF)

© Lenovo
(O-SL400) April 2010
## ThinkPad SL410 2842 (GMA) - TopS (XP with Win 7 License) - withdrawn

### Processor

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor GHz Memory</th>
<th>Wide-screen display CCFL or LED</th>
<th>Screen type Cam--era</th>
<th>Integrated graphics</th>
<th>Disk type SATAGB rpm</th>
<th>Mini PCIe optical 802.11 wireless</th>
<th>Mini PCIe Blue--print reader WWAN totoothreader cells</th>
<th>Finger Bat--tryery Pre--repair service Pre--LOR24 9x5 NBD Avail--date</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>2842-5GU T5870</td>
<td>2.00 2GB 14.0° HD LED Glossy GMA</td>
<td>160G 5400 DVD±RW * Intel 5100®</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>6</td>
<td>XP Pro Oct 09</td>
</tr>
<tr>
<td>2842-5HU T5870</td>
<td>2.00 3GB 14.0° HD LED Glossy 2.0M GMA</td>
<td>250G 5400 DVD±RW * Intel 5100®</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>6</td>
<td>XP Pro Oct 09</td>
</tr>
<tr>
<td>2842-5JU T6670</td>
<td>2.20 4GB 14.0° HD LED Glossy 2.0M GMA</td>
<td>320G 5400 DVD±RW * Intel 5100®</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>6</td>
<td>Blue Fing Oct 09</td>
</tr>
</tbody>
</table>

### Preloaded operating system

- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32

### Preloaded applications (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)

Supports ThinkVantage® technologies

- 65-watt (GMA graphics) AC adapter
- ENERGY STAR® 5.0-compliant RoHS-compliant
- International Warranty Service®

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

### Processor

- Intel® Core™ 2 Duo processor T5870 or T6670 with dual-core, 800MHz system bus, and 2MB L2 cache

### Memory

- 2GB, 3GB or 4GB std / 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;
- **Italics:** standard memory in both sockets; no sockets available;
- **Non-italics:** standard memory in one socket; one socket available

### SATA DVD±RW

- DVD burner, SATA 1.5Gb/s, 12.7mm high. fixed, not removable, tray-in
- **160GB** (5400 rpm), **250GB** (5400 rpm), or **320GB** (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™

### 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)
- 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

- 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys
- TrackPoint® pointing device, Internet Scroll Bar®, magnifying glass
- UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch illuminated power button

### Dimensions

- **Weight:**
- **Battery - life:**
- **Chipset:**

### Supports ThinkVantage® technologies

- 65-watt (GMA graphics) AC adapter
- ENERGY STAR® 5.0-compliant RoHS-compliant
- International Warranty Service®

**24 hour x 7 day** toll-free support during the warranty period via 800-426-7378

ThinkPlus® 1 - year LOR® 9x5 NBD

ThinkPlus 2-year LOR 9x5 NBD

ThinkPlus 3-year LOR 9x5 NBD

ThinkPlus 4-year LOR 9x5 NBD

ThinkPlus 5-year LOR 9x5 NBD

ThinkPlus 2-year P&L P/U Depot

ThinkPlus 3-year P&L P/U Depot

ThinkPlus 4-year P&L P/U Depot

ThinkPlus 5-year P&L P/U Depot

Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information

* Intel Centrino® processor technology

US models announced October 22, 2009

US models withdrawn effective February or October 2010

(JAD1-2) October 2010

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

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor GHz Memory</th>
<th>Wide-screen display</th>
<th>CCFL or LED Screen type</th>
<th>Camera or Integrated graphics GB</th>
<th>Disk SATA rpm</th>
<th>SATA optical</th>
<th>Mini PCIe</th>
<th>Mini PCle WWAN</th>
<th>Finger print reader</th>
<th>Battery life</th>
<th>Preloaded operating system</th>
<th>Limited warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>2842-F7U T6570</td>
<td>2.10 2GB 14.0” HD LED Glossy</td>
<td>2.0M</td>
<td>GMAG 250G 5400</td>
<td>DVD±RW</td>
<td>* Intel 1000</td>
<td>None</td>
<td>* Intel 1000</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>6</td>
<td>Pro 32 Jan 10</td>
</tr>
<tr>
<td>2842-F8U T6570</td>
<td>2.10 2GB 14.0” HD LED Glossy</td>
<td>2.0M</td>
<td>GMAG 320G 7200</td>
<td>DVD±RW</td>
<td>* Intel 1000</td>
<td>None</td>
<td>* Intel 1000</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>6</td>
<td>Pro 32 Jan 10</td>
</tr>
<tr>
<td>2842-F9U T6670</td>
<td>2.20 4GB 14.0” HD LED Glossy</td>
<td>0.3M</td>
<td>GMAG 250G 5400</td>
<td>DVD±RW</td>
<td>* Intel 1000</td>
<td>None</td>
<td>* Intel 1000</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>6</td>
<td>Pro 32 Jan 10</td>
</tr>
<tr>
<td>2842-K3U T6670</td>
<td>2.20 2GB 14.0” HD LED Glossy</td>
<td>0.3M</td>
<td>GMAG 500G 7200</td>
<td>DVD±RW</td>
<td>* Intel 1000</td>
<td>None</td>
<td>* Intel 1000</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>6</td>
<td>Pro 32 Jan 10</td>
</tr>
</tbody>
</table>

* 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

**Memory**
- 2GB, 3GB, or 4GB std / 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;
- Non-Italics: standard memory in both sockets; no sockets available;
- Italics: standard memory in one socket; one socket available

**SATA DVD±RW SATA disk**
- DVD burner, SATA 1.5Gbps, 12.7mm high, fixed, not removable, tray-in
- 250GB (7200 rpm), 320GB (7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gbps, 2.5” wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™

**Widescreen display**
- 14.0” (355mm) HD (1366x768) color, VibrantView (glossy)
- LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Camera**
- Camera on top of screen, 0.3-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**
- 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys

**TrackPoint**
- TrackPoint® pointing device, Internet Scroll Bar®, magnifying glass

**Lighting FX**
- UltraNav®
- wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch illuminated power button

**Dimensions**
- 4/6-cell 14.0”Wx DxH): 13.54” x 9.17” x 1.26–1.42”
- 344mm x 233mm x 32–36mm

**Weight**
- 4-cell: starting at 4.59 lb (2.06kg); 6-cell: starting at 5.1 lb (2.3kg)

**Chipset**
- Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), NVIDIA nForce 820M, USB 2.0, PCI Express 1.1, PCI 2.3, Ethernet MAC, LPC bus (IT8752)

**Preloaded operating system**
- Some: Genuine Windows® 7 Professional
- Some: Genuine Windows® 7 Professional 64

**Preloaded applications**
- 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)

**55-watt (GMA graphics) AC adapter**
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant
- RoHS-compliant
- International Warranty Service
- 24 hour x 7 day toll-free support during the warranty period via 800-426-7378

**Battery life**
- Via 800-426-7378

**Battery type**
- 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), NVIDIA nForce 820M, USB 2.0, PCI Express 1.1, PCI 2.3, Ethernet MAC, LPC bus (IT8752)

**MultiCard Reader**
- One slot (ExpressCard/34)

**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
- 11b/g/n wireless®, Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2

**Modem**
- None

**Bluetooth**
- Some: Bluetooth 2.1 wireless, LED indicator

**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

**Fingerprint reader**
- Security chip
- None

**Limited warranty**
- 1-year - depot repair service / service upgrades available

See footnotes for important warranty information

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(JAD-13) October 2010

US models announced December 15, 2009 or September 28, 2010
US models withdrawn effective December 2010, or January or October, 2011
<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Celeron® Processor T3000 or T3100 with dual-core, 800MHz system bus, and 1MB L2 cache</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>2GB std / 4GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; Non-Italics: standard memory in one socket; one socket available</td>
</tr>
<tr>
<td>SATA DVD:RW</td>
<td>DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in</td>
</tr>
<tr>
<td>SATA disk</td>
<td>160GB® (5400 rpm) or 250GB (5400 rpm) / SATA 3.0Gb/s, 2.5” wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™</td>
</tr>
<tr>
<td>Widescreen display</td>
<td>14.0” (355mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio</td>
</tr>
<tr>
<td>Camera</td>
<td>Some: camera on top of screen, 2.0-megapixel, fixed focus</td>
</tr>
<tr>
<td>Integrated graphics</td>
<td>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)</td>
</tr>
<tr>
<td>Keyboard</td>
<td>6-row, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows and App keys TrackPoint® pointing device, Internet Scroll Bar®, magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch illuminated power button</td>
</tr>
<tr>
<td>Touchpad</td>
<td>TrackPoint® (JAD1-1) January 2011</td>
</tr>
<tr>
<td>Lighting FX</td>
<td>4/6-cell 14.0W” (WxHxD): 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</td>
</tr>
<tr>
<td>Weight</td>
<td>4.02lbs (1.87kg) / 4.6lbs (2.1kg) ThinkPad® ThinkPlus 5-year P&amp;L P/U Depot</td>
</tr>
<tr>
<td>Case color</td>
<td>Scratch-resistant ABS plastic</td>
</tr>
<tr>
<td>Case material</td>
<td>Lithium Ion 6-cell Battery / 4-cell: up to 4.0 hr, 9-cell: up to 6 hr</td>
</tr>
<tr>
<td>Battery - type</td>
<td>Mobile Intel GL40 Express Chipset (Graphics Memory Controller Hub) Ich9m I/O Controller Hub (Sata 3.0Gb/s, USB 2.0, PCI Express® x1, PCI 2.3, ethernet MAC), LPC bus (IT8752)</td>
</tr>
<tr>
<td>Battery - life</td>
<td>One slot (ExpressCard/34) Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</td>
</tr>
<tr>
<td>ExpressCard</td>
<td>One USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</td>
</tr>
<tr>
<td>MultiCard Reader</td>
<td>Three 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro SD, SDHC, XD, XD Type H)</td>
</tr>
<tr>
<td>PC Card</td>
<td>None</td>
</tr>
<tr>
<td>Smart Card Read</td>
<td>None</td>
</tr>
</tbody>
</table>

For more information on the ThinkPad SL410 2874 (GMA) - TopSeller (Celeron) - Win 7 - withdrawn model, please visit lenovo.com/thinkplus/warranty.
ThinkPad® SL410 Accessories

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

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

**Keyboard**
- ThinkPad TrackPoint Cap Collection 73P2698 12/06/03
- Lenovo Mini Wireless Keyboard N9501 57Y6336 06/23/04
- Wireless via 2.4GHz technology using a micro-size USB receiver.
- ThinkPad USB Keyboard with TrackPoint 55Y9003 08/18/09
- Preferred Pro USB Keyboard 73P5220 06/21/05
- Lenovo USB Smartcard Keyboard 51J0155 03/24/09

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

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

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

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

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

More information at www.lenovo.com/alladaycomputing

**Monitors**
- ThinkVision® L1711p 17" Monitor 5047HB2 10/20/09
- ThinkVision L1900p 19" Monitor 4431HE1 11/11/08
- ThinkVision L1951p Wide 19" Monitor 2448HB6 10/20/09
- ThinkVision L2250p Wide 22" Monitor 2572HB6 10/20/09
- ThinkVision L2251p Wide 22" Monitor 2572HB6 10/20/09
- ThinkVision L2255x Wide 22" Monitor 2572HB6 10/20/09
- ThinkVision L2321x Wide 23" Monitor 4014HB6 06/10/10
- ThinkVision L2440p Wide 24" Monitor 4420HB2 09/17/08

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

**Carrying Cases**
- ThinkPad 14W Case Sleeve 57Y4294 03/16/10
- ThinkPad 15W Case Sleeve 51J0477 08/18/09
- Lenovo Messenger Max 41U5553 05/01/07
- Lenovo Performance BackPack 41U5254 05/01/07
- ThinkPad Business Topload Case 43R2476 05/13/08
- ThinkPad Business Backpack 43R2482 05/13/08
- ThinkPad Deluxe Expander Case 43R2478 05/13/08
- ThinkPad Executive Leather Case 43R2480 05/13/08
- Wenger Backpack for Lenovo 57Y4271 01/07/10
- Wenger Slim Case for Lenovo 57Y4273 01/07/10
- Wenger Deluxe Slim Case for Lenovo 57Y4272 01/07/10

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

**Power Adapters**
- ThinkPad 90W AC Adapter 40Y7699
- Only compatible with the integrated graphics models.
- ThinkPad 65W AC Adapter 40Y7659 09/20/05
- ThinkPad 90W AC Adapter 41R4493 09/20/09
- ThinkPad 90W USB AC/DC Combo Adapter 41R4493 09/20/09
- ThinkPad 90W USB AC/DC Combo Adapter 41R4493 09/20/09
- ThinkPad 90W USB AC/DC Combo Adapter 41R4493 09/20/09
- ThinkPad 90W USB AC/DC Combo Adapter 41R4493 09/20/09

More information at www.lenovopowertips.com

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(O-SL410) October 2011
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

- **Celeron® Processors** with single-core,
  - 667MHz system bus, and 1MB L2 cache or
  - [Intel® Celeron® Processor T1600 with dual-core],
  - 800MHz system bus, and 1MB L2 cache.

### Memory

- 1GB or 2GB std / 4GB max / PC2-5300 667MHz DDR2, non-parity,
- dual-channel capable, two 200-pin SO-DIMM sockets;
- Non-italics: standard memory in one socket; one socket available.

### SATA DVD±RW

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Serial Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2746-BKU</td>
<td>None</td>
<td>6 XP Pro</td>
<td>WWAN upg</td>
</tr>
<tr>
<td>2746-8U</td>
<td>None</td>
<td>6 Home B</td>
<td>Aug08</td>
</tr>
<tr>
<td>2746-8VU</td>
<td>None</td>
<td>6 XP Pro</td>
<td>Sep08</td>
</tr>
<tr>
<td>2746-MGU</td>
<td>None</td>
<td>6 Home B</td>
<td>Mar09</td>
</tr>
<tr>
<td>2746-MCU</td>
<td>None</td>
<td>6 Home B</td>
<td>Mar09</td>
</tr>
<tr>
<td>2746-MHU</td>
<td>None</td>
<td>6 Home B</td>
<td>Dec08</td>
</tr>
<tr>
<td>2746-EU</td>
<td>None</td>
<td>6 Home B</td>
<td>Jul09</td>
</tr>
</tbody>
</table>

### Preloaded operating system

- Some: Windows XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business
- Some: Genuine Windows Vista Home Basic
- Vista models: Vista Basic Logo

### Preloaded applications

- All Oses:
- 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)

### Limited warranty

- 1-year - depot repair service / service upgrades available

See footnotes for important warranty information.
## ThinkPad SL500 2746 (GMA) - TopSeller - withdrawn

**Personal Systems Reference (PSREF)**

<table>
<thead>
<tr>
<th>Processor</th>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>1GB or 2GB std / 4GB max7 / PC2-5300 667MHz DDR2, non-parity, or Intel HD Boost, 1066MHz system bus, and 3MB L2 cache</td>
</tr>
<tr>
<td>SATA Combo</td>
<td>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</td>
</tr>
<tr>
<td>SATA DVD+RW</td>
<td>SATA 1.5Gb/s, 9.5mm high, removable, upgradeable, ThinkPad Shock Mounted Hard Drive, Active Protection System™</td>
</tr>
<tr>
<td>Widescreen display</td>
<td>Some: 15.4&quot; (391.2mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 15.4&quot; (391.2mm) WXGA (1280x800) color, VibrantView™ (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio</td>
</tr>
<tr>
<td>Camera</td>
<td>Some: camera on top of screen, 2.0-megapixel, fixed focus</td>
</tr>
<tr>
<td>Integrated graphics</td>
<td>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)</td>
</tr>
<tr>
<td>Keyboard</td>
<td>6-row, Lenovo™ Care button, spill-resistant, multimedia Fn keys</td>
</tr>
<tr>
<td>TrackPoint®</td>
<td>TrackPoint® pointing device, Intel Serial Scroll™, magnifying glass</td>
</tr>
<tr>
<td>Touch pad</td>
<td>UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label illuminated power button, Lenovo Care button, and red dot on ThinkPad logo</td>
</tr>
<tr>
<td>Dimensions²</td>
<td>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) 6-cell: up to 3.6 hr; 9-cell: up to 5.5 hr</td>
</tr>
<tr>
<td>Weight²</td>
<td>Color: black; Material: scratch-resistant ABS plastic, high-gloss top cover</td>
</tr>
<tr>
<td>Battery - type</td>
<td>Lithium Ion 6-cell</td>
</tr>
<tr>
<td>Battery - life</td>
<td>None</td>
</tr>
<tr>
<td>Chipset</td>
<td>Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub) ICH9M I/O Controller Hub (SATA 3.0 Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (IT8752 Super I/O)</td>
</tr>
<tr>
<td>ExpressCard slot</td>
<td>One ExpressCard34 or ExpressCard/54 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)</td>
</tr>
<tr>
<td>Multicard Reader</td>
<td>None</td>
</tr>
<tr>
<td>PC Card Std slot</td>
<td>None</td>
</tr>
<tr>
<td>Smart Card Read</td>
<td>None</td>
</tr>
<tr>
<td>Ports</td>
<td>Four USB 2.0, external monitor (VGA DB-15, HDMI), modem (RT-11, ethernet (RT-45), IEEE 1394 FireWire 400 (4-pin connector, 1394a/2000 standard)</td>
</tr>
<tr>
<td>Mini PCI Express</td>
<td>Three Mini PCI Express slots 11a/b/g/n wireless, Mini PCI adapter, Intel WiFi Link 5100, 1x2 (Shirey Peak) Some: Wireless WAN upgradeable, optional AT&amp;T® (4391952) Some: Wireless WAN, Ericsson chipset, Mini PCI adapter and SIM, GPRS/WCDMA/HSIA, GPS, service contract required with AT&amp;T®</td>
</tr>
<tr>
<td>2G Turbo</td>
<td>UWB</td>
</tr>
<tr>
<td>Modem</td>
<td>56K V.92 modem</td>
</tr>
<tr>
<td>Bluetooth™</td>
<td>Bluetooth 2.0 wireless, LED indicator</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1</td>
</tr>
<tr>
<td>Intel® AMT</td>
<td>None</td>
</tr>
<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, CX20561-152 codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack</td>
</tr>
<tr>
<td>Security</td>
<td>Power-on password, hard disk password, supervisor password, security keyhole</td>
</tr>
<tr>
<td>Security chip</td>
<td>None</td>
</tr>
<tr>
<td>Fingerprint reader</td>
<td>None</td>
</tr>
<tr>
<td>Limited warranty¹</td>
<td>1-year - EasyServ™ - depot repair service / service upgrades² available</td>
</tr>
</tbody>
</table>

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### Preloaded operating system²
- 1GB Vista models: Vista Basic logo - 2GB Vista models: Vista Premium logo

### Preloaded applications¹ (all OSes, only some listed)
- **-lenovo:** Care™ Tools - Rescue and Recovery™ - Access Connections™ - Power Manager - ThinkVantage System Update - Fingerprint Software (fingerprint models) - McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) - PC-Doctor™ (diagnostics) - ThinkPad Utilities (Power Manager and Presentation Director) - Adobe® Reader - Roxio® Creator™ Small Business Edition - Roxio® MyDVD® (DVD+RW)

### 65-watt (GMA graphics) AC adapter RoHS-compliant

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**Lenovo**

**US models announced July 15 or 29, 2008**

**US models withdrawn effective September, 2008, January or September 2009**

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**See footnotes for important warranty information**
This small and medium business (SMB) models are part of the US TopSeller™ Program

A comprehensive computing solution for small and medium business

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### 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

### Memory

- 1GB, 2GB, or 3GB std / 4GB max
- DDR2, non-parity, 3GB, std / 4GB max / PC2-5300 667MHz
- Dual-channel capable, two 200-pin SO-DIMM sockets;
- Standard memory in one socket; one socket available

### SATA DVD:RW

DVD burner, SATA 1.5GB/s, 12.7mm high, fixed, not removable, tray-in

### SATA disk

- 80GB (5400 rpm), 160GB (5400 rpm) / 250GB (5400 rpm)
- Some: 15.4” WXGA (glossy), anti-glare, 15.4” WXGA (1280x800) color, VibrantView
- CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio
- 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)
- Intel 5100 WWAN upg

### Widescreen display

- 15.4” WXGA Glossy Cam GMA 250G 5400 DVD
- 15.4” WXGA Cam GMA 250G 5400 DVD
- 15.4” WXGA Cam GMA 250G 5400 DVD

### Weight

- 3GB, std / 4GB max
- 1GB, dual-core
- 800MHz system bus, and 2MB L2 cache

### Preloaded operating system

- Some: Windows XP Professional
- Preinstalled through downgrade rights in Genuine Windows Vista® Business
- Genuine Windows Vista Home Premium 32
- Genuine Windows Vista Business 32
- ASU model: Vista Premium logo
- Other Vista models: Vista Basic logo

### Preloaded applications

- Adobe® Reader®
- Roxio® Creator® Small Business Edition (DVD:RW)
- Roxio MyDVD® (DVD:RW)
- Corel® WinDVD® (DVD:RW)

### Chipset

- Mobile Intel GM45 Express Chipset
- Chipset 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/S4

### ExpressCard/S4

- One slot (ExpressCard/34, ExpressCard/54)
- 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H)

### Multicard reader

- None

### PC Card

- 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

- None

### Intel 5100® WWAN

- None

### Mini PCI Express

- Three Mini PCI Express slots
- 11a/b/g/n wireless®, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)
- Some: Bluetooth 2.1 wireless, LED indicator
- Intel AMT
- Audio support
- High Definition (HD) Audio, CX20581-15Z codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphones jack
- Power-on password, hard disk password, supervisor password, security keyhole
- None

### Finger reader

- Some: Fingerprint reader on palm rest, swipe sensor

### Limited warranty

- 1-year - depot repair service / service upgrades® available
- Additional warranty: 1-year - depot repair service / service upgrades® available for ThinkPad
- US models announced September 30, October 7, 2008
- US models withdrawn effective January or September 2009, or April 2010

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Lenovo® SL500 2746 (GMA) - TopSeller (September 2008) - withdrawn

Personal Systems Reference (PSREF)

Lenovo

TAR1-4 April 2010
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Integ-erated graphics</th>
<th>Disk</th>
<th>SATA optical</th>
<th>Mini PCIe 802.11</th>
<th>Mini PCIe Finger print reader</th>
<th>Battery</th>
<th>Whose (W)</th>
<th>GB</th>
<th>Avail. date</th>
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</thead>
<tbody>
<tr>
<td>2746-MU</td>
<td>T5870</td>
<td>2.00</td>
<td>2GB</td>
<td>15.4” WXGA LED</td>
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<td>160GB 5400 DVD±RW</td>
<td>Intel 5100</td>
<td>6 Pro</td>
<td>XP</td>
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<td>15.4” WXGA LED</td>
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<td>2746-MKU</td>
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<td>GMA</td>
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<td>Intel 5100</td>
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<td>GMA</td>
<td>250GB 5400 DVD±RW</td>
<td>Intel 5100</td>
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<td>P</td>
<td>250GB 5400 DVD±RW</td>
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<td>2746-MMU</td>
<td>T5870</td>
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<td>15.4” WXGA LED</td>
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<td>T6570</td>
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<td>GMA</td>
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<td>Home</td>
<td>P</td>
<td>250GB 5400 DVD±RW</td>
<td>Blue</td>
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<tr>
<td>2746-MMU</td>
<td>P8600</td>
<td>2.40</td>
<td>3GB</td>
<td>15.4” WXGA LED</td>
<td>GMA</td>
<td>250GB 5400 DVD±RW</td>
<td>Intel 5100</td>
<td>Blue</td>
<td>Home</td>
<td>P</td>
<td>250GB 5400 DVD±RW</td>
<td>Blue</td>
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<td>T5870</td>
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<td>2.00</td>
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<td>GMA</td>
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<td>Intel 5100</td>
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<td>GMA</td>
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<td>320GB 5400 DVD±RW</td>
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</tr>
<tr>
<td>2746-NDU</td>
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<td>Home</td>
<td>P</td>
<td>250GB 5400 DVD±RW</td>
<td>Blue</td>
</tr>
</tbody>
</table>

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- A comprehensive computing solution for small and medium business
- Preloaded operating system
  - Some: Windows® XP Professional preinstalled through downgrade rights in Genuine Windows Vista® Business
  - Some: Genuine Windows Vista Home Basic 32
  - Some: Genuine Windows Vista Business 32
  - Some: Genuine Windows Vista Ultimate 32
  - Vista models: Vista Basic logo

Preloaded applications (all OSes; only some listed)
- Lenovo Care® Tools
- Rescue and Recovery™
- Access Connections
- Fingerprint Reader (as factory configured)
- ThinkVantage System Update

65-watt (GMA graphics) AC adapter RoHS-compliant

International Warranty Service®
24 hour x 7 day toll-free support during the warranty period via 800-426-7378

ThinkPlus®
- 1-year LOR® 9x5 NBD
- 2-year LOR® 9x5 NBD
- 3-year LOR® 9x5 NBD
- 4-year LOR® 9x5 NBD

ThinkPlus 2-year P1 P/U Depot
45K5968

ThinkPlus 3-year P1 P/U Depot
45K5970

ThinkPlus 4-year P1 P/U Depot
45K5971

ThinkPlus 5-year P1 P/U Depot
45K5974

Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty
ThinkPad® SL500 2746 (NVIDIA®) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

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

<table>
<thead>
<tr>
<th>Processor</th>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>2GB or 4GB std / 4GB max7 / PC2-5300 667MHz DDR2, non-parity, 4GB P8400/P8600: T9400: T9400: 15.4&quot; WSXGA+ Cam 9300M 320G 5400 BD burner 4GB 2GB 15.4&quot; WSXGA+ Cam 9300M 160G 5400 DVD</td>
</tr>
<tr>
<td>SATA DVD±RW</td>
<td>Some: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in</td>
</tr>
<tr>
<td>SATA BD burner</td>
<td>Some: Blu-ray™ burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in</td>
</tr>
<tr>
<td>SATA BD player</td>
<td>Some: Blu-ray player, DVD burner, SATA 1.5Gb/s, 12.7mm, fixed, not removable, tray-in</td>
</tr>
<tr>
<td>SATA disk</td>
<td>160GB (5400 rpm), 250GB (5400), or 320GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradeable, ThinkPad Shock Mounted Hard Drive, Active Protection System™</td>
</tr>
<tr>
<td>Widescreen display</td>
<td>Some: 15.4&quot; (391.2mm) WXGA (1280x800) color, VibrantView (glossy), CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio</td>
</tr>
<tr>
<td>Camera</td>
<td>Camera on top of screen, 2.0-megapixel, fixed focus</td>
</tr>
<tr>
<td>Discrete graphics</td>
<td>NVIDIA® GeForce 9300M, PCI Express® x8, 256MB memory, HDMI port supporting HDCP to output protected content; Max external resolution: 2048x1536@85Hz (DB-15 port); 1920x1080 (HDMI port)</td>
</tr>
<tr>
<td>Keyboard</td>
<td>6-row, Lenovo® Card button, spill-resistant, multimedia Fn keys</td>
</tr>
<tr>
<td>Touchpad Lighting FX</td>
<td>UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label illuminated button power, Lenovo Card button, ThinkPad logo</td>
</tr>
<tr>
<td>Dimensions</td>
<td>15.4&quot; (391.2mm) WXGA+ (1680x1050) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio</td>
</tr>
<tr>
<td>Weight</td>
<td>6-cell: starting at 6.3 lb (2.9kg), 9-cell: starting at 6.7 lb (3.0kg)</td>
</tr>
<tr>
<td>Case color</td>
<td>scratch-resistant ABS plastic, high-gloss top cover</td>
</tr>
<tr>
<td>Case material</td>
<td>Lithium Ion 6-cell or 9-cell</td>
</tr>
<tr>
<td>Battery - type</td>
<td>6-cell: up to 3 hr, 9-cell: up to 4.9 hr</td>
</tr>
<tr>
<td>Battery - life</td>
<td>Mobile Intel PM45 Express Chipset (Memory Controller Hub), ICH9M (RST协力控制器 Hub), SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC, LPC bus (IT8752 Super I/O)</td>
</tr>
<tr>
<td>ExpressCard</td>
<td>One slot (ExpressCard/34, ExpressCard/54)</td>
</tr>
<tr>
<td>Multicard Reader</td>
<td>7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, HDHC, XD, XD Type H)</td>
</tr>
<tr>
<td>PC Card</td>
<td>None</td>
</tr>
<tr>
<td>Smart Card Read</td>
<td>None</td>
</tr>
<tr>
<td>Ports</td>
<td>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)</td>
</tr>
<tr>
<td>Mini PCI Express</td>
<td>Three Mini PCI Express slots, 11a/b/g/n wireless, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)</td>
</tr>
<tr>
<td>WWAN upg</td>
<td>Some: Wireless WAN upgradable, optional AT&amp;T (4391952) Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&amp;T</td>
</tr>
<tr>
<td>2G Turbo UWB</td>
<td>Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator</td>
</tr>
<tr>
<td>Modem</td>
<td>56K V.92 modem</td>
</tr>
<tr>
<td>Bluetooth™</td>
<td>Bluetooth 2.1 wireless, LED indicator</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Realtek RTL8111C Gigabit Network Connection, PHY, PCIe x1</td>
</tr>
<tr>
<td>Intel AMT</td>
<td>None</td>
</tr>
<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, CX20561-1Z5 codec / stereo speakers, 1.5 watt / volume up, down, mute buttons / dual array microphone, mic input jack, headphone jack</td>
</tr>
<tr>
<td>Security</td>
<td>Power-on password, hard disk password, supervisor password, security keyhole</td>
</tr>
<tr>
<td>Security chip</td>
<td>None</td>
</tr>
<tr>
<td>Fingerprint reader</td>
<td>Fingerprint reader on palm rest, swipe sensor</td>
</tr>
</tbody>
</table>

Limited warranty2 - year - depot repair service / service upgrades9 available

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

© Lenovo (TAR1-2) April 2010

*Preloaded operating system:* 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

*Preloaded applications:* 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)

90-watt (NVIDIA) AC adapter RoHS-compliant
International Warranty Service17 24 hour x 7 day toll-free support during the warranty period via
800-426-7378

ThinkPlus®, 1-year LOR® 9x5 NBD 45K968
ThinkPlus 2-year LOR 9x5 NBD 45K969
ThinkPlus 3-year LOR 9x5 NBD 45K970
ThinkPlus 4-year LOR 9x5 NBD 45K973
ThinkPlus 5-year LOR 9x5 NBD 45K975
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
Entry price point ThinkPad notebooks available for bid to relationship accounts
This model has an depot repair service 3-year limited warranty

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Celeron processor GHz</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Integrated graphics</th>
<th>Disk</th>
<th>Mini PCIe</th>
<th>Mini PCIe</th>
<th>Finger print reader</th>
<th>Battery cells</th>
<th>Preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4414-2MU</td>
<td>Cel T1600 1.66</td>
<td>2GB</td>
<td>15.4&quot; WXGA None</td>
<td>GMA</td>
<td>160G</td>
<td>DVD±RW</td>
<td>11b/g</td>
<td>None</td>
<td>6</td>
<td>6</td>
<td>Bus 32</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Aug 09</td>
</tr>
</tbody>
</table>

Preloaded operating system
- Genuine Windows Vista Business 32
- Vista Basic logo

Preloaded applications (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)

65-watt (GMA graphics) AC adapter
RoHS-compliant
International Warranty Service 24 hour x 7 day toll-free support during the warranty period via 800-426-7378

ThinkPlus™ 3-year LOR 9x5 NBD
ThinkPlus 4-year LOR 9x5 NBD
ThinkPlus 5-year LOR 9x5 NBD
ThinkPlus 4-year P&L P/U Depot
ThinkPlus 5-year P&L P/U Depot
Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

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

© Lenovo (TAR11C-2) April 2010

- *Entry price point ThinkPad notebooks available for bid to relationship accounts
- This model has an depot repair service 3-year limited warranty
### ThinkPad SL500c 4414 (GMA) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>CCFL or LED</th>
<th>Camera</th>
<th>Integrated graphics</th>
<th>Disk</th>
<th>SATA optical</th>
<th>Mini PCIe</th>
<th>Mini PCIe Finger print reader</th>
<th>Battery</th>
<th>Pre-load</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4414-25U</td>
<td>Intel® Core™ 2 Duo processor T5870 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</td>
<td>2.00</td>
<td>2GB</td>
<td>WXGA</td>
<td>None</td>
<td>None</td>
<td>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDOP to output protected content Max external resolution: 2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)</td>
<td>2GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradeable, ThinkPad Shock Mounted Hard Drive, Active Protection System™</td>
<td>None</td>
<td>Anti-glare, LED backlight</td>
<td>None</td>
<td>None</td>
<td>3-years /1-yr battery - depot repair service / service upgrades</td>
<td>2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)</td>
</tr>
<tr>
<td>4414-29U</td>
<td>Intel® Core™ 2 Duo processor T5870 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</td>
<td>2.53</td>
<td>2GB</td>
<td>WXGA</td>
<td>LED</td>
<td>None</td>
<td>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDOP to output protected content Max external resolution: 2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)</td>
<td>2GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradeable, ThinkPad Shock Mounted Hard Drive, Active Protection System™</td>
<td>None</td>
<td>Anti-glare, LED backlight</td>
<td>None</td>
<td>None</td>
<td>3-years /1-yr battery - depot repair service / service upgrades</td>
<td>2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)</td>
</tr>
</tbody>
</table>

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

### Processor

Intel® Core™ 2 Duo processor T5870 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

### Memory

2GB std / 4GB max / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; standard memory in one socket; one socket available

### SATA DVD:±RW

DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in

### Widescreen display

Some: 15.4" (391.2mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio

### Camera

None

### Integrated graphics

Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, HDMI port supporting HDOP to output protected content

Max external resolution: 2048x1536@75Hz (VGA DB-15); 1920x1080 (HDMI)

### Keyboard

6-row, Lenovo® Care button, spill-resistant, multimedia Fn keys

### TrackPoint

TrackPoint® pointing device, Internet Scroll Bar®, 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

### Touch pad

None

### Lighting FX

None

### Dimensions

6-cell 15.4" (WxDxH): 14.1" x 10.2" x 1.46–1.53"; 358 x 260mm x 37–39mm

### Weight

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)

### ExpressCard/54

One slot (ExpressCard/34, ExpressCard/54)

### 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

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 11a/b/g/n wireless®, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)

### WWAN upg

2G Turbo UWB

### Modem

56K V.92 modem

### Bluetooth

Bluetooth 2.1 wireless, LED indicator

### Ethernet

Realtek® RTL8111C Gigabit Network Connection, PHY, PCIe x1

### Intel AMT

None

### Audio support

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

Power-on password, hard disk password, supervisor password, security keyhole

### Security chip

None

### Fingerprint reader

Fingerprint reader on palm rest, swipe sensor

### Preloaded applications

- Adobe Reader®
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Small Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD±RW)

### Preloaded operating system

Genuine Windows® Vista® Business 32

### 3-years

Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

### Limited warranty

3-years /1-yr battery - depot repair service / service upgrades | Intel Centrino® processor technology

### Lenovo System Toolbox

ThinkPlus®

### International Warranty Service

24 hour x 7 day toll-free support during the warranty period via 800-426-7378

### www.lenovo.com/support

Entry price point ThinkPad notebooks available for bid to relationship accounts

These models have an depot repair service 3-year limited warranty

### US model announced August 4, 2009

Intel® Centrino® processor technology

### US model withdrawn effective April 2010

Intel® Centrino® 2 processor technology

© Lenovo (TAR11C-1) April 2010
## ThinkPad® SL500, SL500c Accessories

### Memory
- 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
- 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)

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

### 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: 73P5280 (ann 03/23/04)
- Ultraltra Wireless Keyboard and Mouse: 57Y4706 (ann 08/15/09)
- 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)

### Mouse
- 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): 06P0049 (ann 05/21/03)
- Lenovo Laser Mouse (USB): 41U3043 (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)

### Security
- 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: 41N3043 (ann 06/27/09)
  "Requires ExpressCard slot"

### Multimedia
- ThinkPad In-Ear Headphones: 57Y4488 (ann 01/07/10)

### Batteries
- ThinkPad Battery 41+ (6-cell): 40Y6799 (ann 01/05/06)
- ThinkPad Battery 41++ (9-cell): 40Y6797 (ann 09/20/05)

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

More information at www.lenovo.com/alladaycomputing

ThinkPad 65W AC Adapter*: 40Y7696 (ann 01/05/06)

* Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter: 40Y7659 (ann 09/20/05)

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

Charging tips for 90W Ultra slim AC/DC Combo Adapter 41R4483:
- 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

### Carrying Cases

#### Up to 15.4" widescreen models:
- 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)

### 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 L2440p Wide 24” Monitor: 4420HB2 (ann 09/17/08)

### Monitor Accessories
- 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 08/05/08)
- USB 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)

(“46 Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on ThinkPad SL accessories, please visit:
www.lenovo.com/support/accessories

www.lenovo.com/support/notebookaccessories

www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>CCFL or LED</th>
<th>Camera</th>
<th>Integrated graphics</th>
<th>Disk</th>
<th>SATA LED</th>
<th>SATA optical</th>
<th>Mini PCIe WWAN</th>
<th>Mini PCIe 802.11n wireless</th>
<th>Finger print reader</th>
<th>Battery Preload</th>
<th>Avg avail.</th>
<th>Notes</th>
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<tr>
<td>2847-2JU</td>
<td>T5870</td>
<td>2.00</td>
<td>2GB</td>
<td>15.6&quot; HD LED</td>
<td>GMA</td>
<td>160G 5400</td>
<td>DVD-RW</td>
<td>*Intel 5100a</td>
<td>6</td>
<td>XP Pro</td>
<td>Oct 09</td>
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<tr>
<td>2847-2MU</td>
<td>T5870</td>
<td>2.00</td>
<td>3GB</td>
<td>15.6&quot; HD LED</td>
<td>2.0M</td>
<td>GMA</td>
<td>250G 5400</td>
<td>DVD-RW</td>
<td>*Intel 5100</td>
<td>6</td>
<td>XP Pro</td>
<td>Oct 09</td>
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<td>T5870</td>
<td>2.00</td>
<td>3GB</td>
<td>15.6&quot; HD LED</td>
<td>2.0M</td>
<td>GMA</td>
<td>250G 5400</td>
<td>DVD-RW</td>
<td>*Intel 5100 AT&amp;Tc</td>
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<td>4GB</td>
<td>15.6&quot; HD LED</td>
<td>GMA</td>
<td>320G 5400</td>
<td>DVD-RW</td>
<td>*Intel 1000</td>
<td>6</td>
<td>XP Pro</td>
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</tbody>
</table>

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* A comprehensive computing solution for small and medium business
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<table>
<thead>
<tr>
<th>Type-model</th>
<th>processor</th>
<th>GHz Memory</th>
<th>Wide-screen display</th>
<th>CCLF or LED</th>
<th>Screen type</th>
<th>Camera</th>
<th>Integrated graphics</th>
<th>Display</th>
<th>SATA mechanical</th>
<th>Mini PCIe WWAN</th>
<th>Mini PCIe Studio Bluetooth</th>
<th>Battery life- day</th>
<th>Availability</th>
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</tr>
</tbody>
</table>

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

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

Preloaded operating system:
- Some: Genuine Windows® 7
- Some: Genuine Windows® 7 Professional
- Some: Genuine Windows® 7 Professional

Preloaded applications (only some listed):
- 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)

Supports ThinkVantage® technologies

Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub),ICH9M I/O Controller Hub (SATA 3.0Gbps, USB 2.0, PCI Express® 1.1, PCI 2.3, Ethernet MAC), LPC bus (IT8752)

Pick-Smart Card read

Ports Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), Ethernet (RJ-45)

Mini PCI Express
- One or two Mini PCI Express slots

Wireless (WLAN)
- Some: 11b/g/n wireless®, Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2
- Some: 11a/b/g/n wireless, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)
- Some: 11a/b/g/n and WiMAX wireless, Mini PCIe card, Intel WiMAX/WiFi Link 5100, 1x2 (300Mbps) WiFi + 1 x2 WiMAX (Echo Peak)

AT&T
- Some: Wireless WAN, Qualcomm Gobi 1000 chipset, Mini PCIe adptr, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, service contract required with Verizon
- Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM®
- GPRS/WCDMA/HSPA, GPS, service contract required with AT&T®

Audio support
- High Definition (HD) Audio, ALC2690 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

Fingerprint reader
- Some: Fingerprint reader on palm rest, swipe sensor

Limited warranty - 1-year - depot repair service / service upgrades available

See footnotes for important warranty information

* Intel Centrino® processor technology

US models announced
* Intel Centrino® processor technology

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

© Lenovo (TOP1-3) October 2010

lenovo.com/thinkplus/warranty
### ThinkPad SL510 2847 (GMA) - TopSeller (Win 7) - Jan 2011 - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>processor GHz</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Integrated graphics</th>
<th>Disk SATAGB rpm</th>
<th>SATA optical</th>
<th>Mini PCIe x8</th>
<th>Mini PCIe x4</th>
<th>Blue-tooth</th>
<th>Finger print reader</th>
<th>Preload</th>
<th>Availability</th>
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<td>T6670</td>
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<td>GMAC6900/1066MHz</td>
<td>500G 7200</td>
<td>DVD±RW</td>
<td>*Intel 1000M</td>
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<td>None</td>
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<td>None</td>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>Home P  Jan 11</td>
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</table>

### Preloaded operating system
- Genuine Windows 7 Home Premium 64

### Preloaded applications (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)

Supports ThinkVantage® technologies

65-watt (GMA graphics) AC adapter
EPEAT® Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service®
24 hour x 7 day toll-free support during the warranty period via 800-426-7378

ThinkPlus® 22 1-year LOR 9x5 NBD
ThinkPlus 2-year LOR 9x5 NBD 45K968
ThinkPlus 3-year LOR 9x5 NBD 45K969
ThinkPlus 4-year LOR 9x5 NBD 45K973
ThinkPlus 5-year LOR 9x5 NBD 45K974
ThinkPlus 2-year P&L P/U Depot 45K975
ThinkPlus 3-year P&L P/U Depot 45K976
ThinkPlus 4-year P&L P/U Depot 45K977
ThinkPlus 5-year P&L P/U Depot 45K978

Post-warranty annual maintenance agreements at [lenovo.com/thinkplus/warranty](http://lenovo.com/thinkplus/warranty)
**ThinkPad® SL510 2875 (GMA) - TopSeller (Celeron) - Win 7 - withdrawn**

<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Display</th>
<th>Graphics</th>
<th>Storage</th>
<th>Operating System</th>
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</thead>
<tbody>
<tr>
<td>2875-32U</td>
<td>Intel® Celeron™ Processor T3000</td>
<td>1GB or 2GB std / 4GB max</td>
<td>LED or CCFL</td>
<td>Integraded graphics</td>
<td>SATA: 160GB / 250GB</td>
<td>Windows 7 Home Premium 64 bit</td>
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<tr>
<td>2875-4TY</td>
<td>Intel® Celeron™ Processor T3100 with dual-core, 800MHz system bus, and 1MB L2 cache</td>
<td>1.80 GHz</td>
<td>1.90 GHz</td>
<td>LED or CCFL</td>
<td>SATA: 160GB / 250GB</td>
<td>Windows 7 Home Premium 64 bit</td>
</tr>
</tbody>
</table>

**Processor**
- Intel® Celeron™ Processor T3000 or T3100 with dual-core, 800MHz system bus, and 1MB L2 cache

**Memory**
- 1GB or 2GB std / 4GB max

**Display**
- LED or CCFL

**Graphics**
- Integrated graphics

**Storage**
- SATA: 160GB / 250GB

**Operating System**
- Windows 7 Home Premium 64 bit

**Preloaded applications**
- Microsoft Office 2010 preloaded
- Adobe Reader
- Adobe Flash Player
- Roxio Creator Business Edition (DVD:RW)
- Corel WinDVD® (DVD:RW)

**Supplementary information**
- Supports ThinkVantage technologies
- 65-watt (GMA graphics) AC adapter
- RoHS-compliant International Warranty Service
- 24 hour x 7 day toll-free support via 800-426-7378
- Lenovo.com/thinkplus/warranty

**See footnotes for important warranty information**

**US models announced October 22 or December 15, 2009**

**US models withdrawn effective December 2010**

**Footnotes:**
- 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)
### ThinkPad® SL510 Accessories

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

#### Storage and removable storage
- 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)

#### 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)
- USB Numeric Keypad: 73P5220 (ann 06/21/05)
- Preferred Pro USB Keyboard: 73P5220 (ann 03/23/04)
- Enhanced Performance USB Keyboard: 57Y6336 (ann 02/26/08)
- Lenovo Mini Wireless Keyboard N5901 (blk): 57Y6336 (ann 02/26/08)
- 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)

#### 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 Optical Mouse A6010 (black): 57Y6255 (ann 05/01/07)
- Lenovo Mini Optical Mouse M20B: 55Y2091 (ann 05/01/07)
- Lenovo Wireless Mouse N30B (black): 55Y9360 (ann 05/01/07)

#### 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)
- Lenovo Headphone PS50: 55Y2065 (ann 01/07/10)

#### Modem
- USB 2.0 Lenovo Modem: 43R1814 (ann 02/26/08)

#### Batteries
- 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: 40Y7625 (ann 09/20/05)
  - Requires the ThinkPad 90W AC Adapter 40Y7659 or the adapter provided with the system.

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

#### Carrying Cases
- ThinkPad 15.6" 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: 504456 (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: 4014HE1 (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
- 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)
  - Requires the [Lenovo Easy Reach Monitor Stand](http://www.lenovo.com/support/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.lenovo.com/accessories](http://www.lenovo.com/accessories)

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

An Options Compatibility Configurator for Lenovo systems

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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, PO Box 12195, RTP NC, 27709, Attn: Dept ZPY A/B676. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:
1 Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.
2 Weight includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.
3 Thinness may vary at certain points on the system.
4 Wireless capability: Requires compatible wireless-enabled options sold separately.
5 Public network download modem speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
6 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.
7 Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
8 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.
9 Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
10 Internet access not included.
11 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.
12 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. 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.
13 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.
14 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.
15 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.
16 Operating System: Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.
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.

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.

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

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.

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

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.

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

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

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

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