



Personal Systems Reference Lenovo® ThinkPad® Notebooks

February 2009 - Version 352



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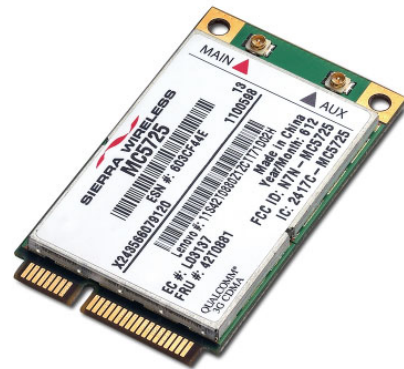
128GB Solid State Drive SATA 3.0Gb/s 1.8" (with 2.5" cover)
43N3406



160GB Disk 9.5mm SATA 1.5Gb/s (7200 rpm)
41N5737



T/R 14W High Capacity Battery 9-cell
43R2499



Verizon WWAN EV-DO Rev. A Mini PCIe
43R1818



USB 2.0 Security Memory Key 4GB
41U5120



Laser Tilt Wheel Travel Mouse (Bluetooth)
41U5008



USB 2.0 Lenovo Webcam
40Y8519



USB 2.0 Lenovo Enhanced Port Replicator
43R8770

ThinkPad® R61e 15W (GMA Graphics) - 1-year

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Graphics controller	Disk SATA GB ³	rpm	EIDE optical	Mini PCIe 802.11 wireless	Finger print reader	Blue-tooth	Battery cells	Preload	Workhorse (W) Global (G)	Avail date
7649-22U	T7300	2.00	1GB	15.4" WXGA	GMA	80GB	5400	Combo	* Intel 11a/b/g ³²	None	None	6	Business 32	G	Jul 07

- This model has a 1-year limited warranty¹²

Positioning Processor	<i>Everyday computing; two spindles</i> Intel® Core™ 2 Duo processor T7300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista™ Business Edition (32-bit) ⇨ Vista Premium logo				
Memory	512MB or 1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available										Preloaded applications¹⁴ • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security (90 days of virus definitions) • Diskeeper™ Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo) • Corel® WinDVD® (combo)				
Diskette drive	None (use optional USB-based diskette drive)														
EIDE Combo	DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ , fixed, not removable, 12.7mm high														
Ultrabay Enhanced	None (no support for removable Ultrabay™ options)														
Serial ATA disk	80GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™														
Widescreen display	15.4" (391mm) WXGA (1280x800) color , anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio										Supports ThinkVantage® technologies 65-watt (GMA graphics) ThinkPad Roll Cage (one-piece magnesium frame) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378 ThinkPlus™.22 1-year LOR ²⁴ 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty				
Camera	None														
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, no DVI pass-through (no port replicator or docking station support)														
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Apl keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ (no touch pad)														
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³	<i>6-cell 15.4W"</i> (WxDxH): 14.1" x 10.2" x 1.39–1.52"; 358.5 x 260.0mm x 35.3–38.5mm														
Weight ²	<i>6-cell:</i> starting at 6.4 lb (2.9kg); <i>9-cell:</i> starting at 6.7 lb (3.1kg)														
Case material	Black color, Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type	Lithium Ion 6-cell														
Battery - life ¹⁰	<i>6-cell Celeron:</i> up to 2.1 hr; <i>6-cell Core 2 Duo:</i> 5.0 hr; <i>9-cell Core 2 Duo:</i> up to 7.0 hr														
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], / PCI bus (Ricoh® R5C804 Cardbus) /														
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit														
ExpressCard slot	None														
Smart Card Read	None														
Multicard Reader	None														
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet)														
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios														
Mini PCI Express	One Mini PCI Express slot / not customer upgradable														
Intel 11a/b/g ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG														
WWAN	None														
Modem	56K V.92 ⁶ modem, on systemboard, Conexant® CX20548														
Bluetooth™	None														
Ethernet	Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE														
Intel AMT	None														
Audio support	High Definition (HD) Audio, CX20549 codec / stereo speakers, 1 watt / volume up, down, mute buttons / microphone input jack, headphone jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	None														
Fingerprint reader	None														
Limited warranty ¹²	1-year - EasyServ™.19 depot repair service / service upgrades ²² available														
1GB PC2-5300 DDR2 SODIMM	40Y7734	T/R/W/SL Series Li-Ion Battery 6-cell		40Y6799											
2GB PC2-5300 DDR2 SODIMM	40Y7735	T/R/W/SL Series Li-Ion Battery 9-cell		40Y6797											
160GB Disk 9.5mm SATA 1.5Gb/s (7200)	41N5737	ThinkPad 90W AC Adapter		40Y7659											
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410	90W Slim AC/DC Combo Adapter		41N8460											
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad Business Topload Case		43R2476											
USB 2.0 Lenovo Multimedia Headset	40Y8518	ThinkPad Business Backpack		43R2482											
USB 2.0 Security Memory Key 4GB	41U5120	ThinkVision® L1940p Wide 19" Monitor		4424HB6											
USB 2.0 Super Multi-Burner Drive	41N5565	ThinkVision L2240p Wide 22" Monitor		4422HB6											
USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ThinkVision L2440p Wide 24" Monitor		4420HB2											
Other accessories on O-R61E sheet	Other accessories at lenovo.com/accessories														

See footnotes for important warranty information
 US model announced July 10, 2007

* Intel Centrino® processor technology

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 (KON11-2) July 2007

Partial list of accessories supported on:**• ThinkPad R61e 15W originally announced on July 10, 2007****Memory**

512MB PC2-5300 DDR2 SODIMM	40Y7733	ann	01/05/06
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	ann	03/25/08
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann	01/05/06
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	ann	03/25/08
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann	11/28/06

Ultrabay Slim 9.5mm

None (no removable bay options)

Ultrabay Enhanced 12.7mm

None (no removable bay options)

Storage and removable storage

160GB Disk 9.5mm SATA 1.5Gb/s (5400 rpm)	41N5692	ann	03/20/07
160GB Disk 9.5mm SATA 1.5Gb/s (7200 rpm)	41N5737	ann	10/16/07
250GB Disk 9.5mm SATA 1.5Gb/s (5400 rpm)	43R8152	ann	01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410	ann	01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3403	ann	08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ann	01/20/09
USB 2.0 Essential Memory Key 1GB	41U4940	ann	01/23/07
USB 2.0 Essential Memory Key 2GB	41U4944	ann	01/23/07
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 Security Memory Key 1GB	41U5118	ann	07/17/07
USB 2.0 Security Memory Key 2GB	41U5119	ann	07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann	07/17/07
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 Portable Diskette Drive	05K9276	ann	06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann	01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann	09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann	01/23/07

Wireless LAN (Mini PCI Express)

No Mini PCI Express upgrade supported (use PC Card)

ThinkPad Expansion

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann	02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann	09/20/05

Keyboard

TrackPoint Cap Collection	73P2698	ann	12/16/03
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04
USB Keyboard with UltraNav	31P8950	ann	01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann	04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann	05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann	08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann	06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann	11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann	11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann	01/22/08
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04

Security

Kensington® Cable Lock from Lenovo	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
PC Card Gemplus Smart Card Reader	41N3004	ann	12/13/05

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann	06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann	08/29/06

Batteries

T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799	ann	01/05/06
T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797	ann	09/20/05
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann	09/20/05

⁴⁴Requires the *ThinkPad 90W AC Adapter*

40Y7659 (adapter provided with some systems).

ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann	01/05/06
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⁴⁵Only compatible with the 945GM and GM965 chipset models.

ThinkPad 90W AC Adapter	40Y7659	ann	09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460	ann	11/27/07

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460

• Dual (ThinkPad+Phone) Charging Y-Cable	41R4345	ann	12/18/07
• Palm device charge tip (L7)	41R4315	ann	12/18/07
• BlackBerry charge tip (L8a)	41R4478	ann	02/18/07
• iPod and iPhone charge tip (L10a)	41R4481	ann	12/18/07

Carrying Cases**Up to 15.4" widescreen models:**

Lenovo Carrying Case - Messenger Max	41U5253	ann	05/01/07
Lenovo Carr Case - Performance BackPack	41U5254	ann	05/01/07
Lenovo Standard Case	45K1697	ann	11/25/08
Lenovo Standard Backpack	45K1698	ann	11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann	02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann	08/12/08
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Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann	04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann	09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann	11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann	09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann	04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann	09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann	09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann	09/17/08

Monitor Accessories⁴⁶

ThinkVision USB Soundbar	40Y7616	ann	08/23/05
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann	01/05/06
Radial Arm	19K4464	ann	05/05/00

⁴⁶Compatible on selected Lenovo and ThinkVision monitors.More information at www.lenovo.com/support/monitoraccessoriesOther accessories at www.lenovo.com/accessoriesAccessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad® R61 14W 7733 (GMA) - Linux

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ³ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Finger print reader	Bat- tery cells	Linux preload	Workhorse (W) Global (G) Entry	Avail date
7733-3BU	T7500	2.20	1GB	14.1" WXGA	GMA	80G 5400	Combo	*Intel 11a/b/g ³²	None	/54	None	None	6	SLED10	W G Jan 08
Positioning Processor	<i>Everyday computing; two spindles</i> Intel® Core™ 2 Duo processor T7500 with dual-core , Intel 64 Technology, Enhanced Intel SpeedStep technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache											Preloaded operating system²⁰ - SUSE® Linux™ Enterprise Desktop10 Service Pack 1 Preloaded applications¹⁴ • None			
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											Supported devices (only some listed) • HD Audio • Intel 3945ABG wireless • Intel Graphics Media Accelerator X3100 (GMA X3100) • NVIDIA Quadro NVS 140M • Fingerprint reader • Bluetooth • Function keys • ThinkPad Advanced Dock			
Diskette drive	None (use optional USB-based diskette drive)											Non-supported devices (only some listed) • Intel 4965AG, Intel 4965AGN, ThinkPad 11a/b/g, ThinkPad 11n wireless • WWAN • Active Protection System™ • ThinkVantage® button • Security chip • Intel Turbo Memory • Intel AMT technology • Integrated camera Non-supported applications (only some listed) • ThinkPad Utilities • ThinkVantage technologies • Presentation Director • Encrypted DVD playback • Keyboard Customizer			
EIDE Combo	DVD-ROM/CD-RW (73P3288), 24X/24X/24X/8X ²¹ , removable Ultrabay™ Enhanced														
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high														
Serial ATA disk	80GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive														
Widescreen display	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio														
Camera	None														
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965														
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass														
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones														
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³	<i>6-cell 14.1W" (WxDxH): 13.2" x 10.2" x 1.2–1.37"; 335mm x 261mm x 30.6–34.9mm</i>														
Weight ²	<i>6-cell:</i> starting at 5.5 lb (2.5kg)														
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic														
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim														
Battery - life ¹⁰	Not published														
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express ⁹ x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)														
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit														
ExpressCard slot	[54] One ExpressCard/34 or ExpressCard/54														
Smart Card Read	None														
Multicard Reader	None														
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet); IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios														
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable														
Intel 11a/b/g ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG														
WWAN	None														
Turbo Memory	None														
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket														
Bluetooth™	None														
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE														
Intel AMT	None														
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant														
Fingerprint reader	None														
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available														
512MB PC2-5300 DDR2 SODIMM	40Y7733			T/R 14W Standard Battery 4-cell				41U3196							
1GB PC2-5300 DDR2 SODIMM	40Y7734			T/R 14W Enhanced Battery 6-cell				41U3198							
2GB PC2-5300 DDR2 SODIMM	40Y7735			T/R 14W High Capacity Batt 9-cell				43R2499							
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643			Advanced Ultrabay Battery II 3-cell				43R9250							
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725			ThinkPad External Battery Charger				40Y7625							
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411			90W Slim AC/DC Combo Adapter				41N8460							
USB 2.0 Ultra Secure Memory Key 8GB	45J5918			ThinkPad Business Topload Case				43R2476							
ThinkPad Essential Port Replicator	250510W			ThinkPad Business Backpack				43R2482							
ThinkPad Advanced Mini Dock	250410U			ThinkVision® L2240p Wide 22" Monitor				4422HB6							
ThinkPad Advanced Dock	250310U			ThinkVision L2440p Wide 24" Monitor				4420HB2							
Check Linux compatibility for other accessories	Other accessories at lenovo.com/accessories														
65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378															
ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD											41C9175				
ThinkPlus 3-year LOR 9x5 NBD											45K6021				
ThinkPlus 4-year LOR 9x5 NBD											45K6022				
ThinkPlus 5-year LOR 9x5 NBD											45K6024				
ThinkPlus 4-year P&L P/U Depot											45K6023				
ThinkPlus 5-year P&L P/U Depot											45K6025				
Post-warranty annual maintenance agreements at											lenovo.com/thinkplus/warranty				

See footnotes for important warranty information
 US model announced January 15, 2008

* Intel Centrino® processor technology

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 (LAG1-9) January 2008

Proc- Type-model essor	GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ⁸ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe Intel Turbo	Card slot	Bat- tery tooth cells	Vista preload	Limited warranty ¹²	Whorse (W) Gbl (G) Avail Entry date
7733-2UU 540	1.86	1GB	14.1" WXGA	GMA	80G 5400	Combo	Intel 11a/b/g ³²	None	/54	Blue 4	Business32	3-yr	W G Nov07
7738-1GU T7300	2.00	1GB	14.1" WXGA+	GMA	120G 5400	DVD±RW	*Intel 11a/b/g	None	/54	Blue 4	Business32	1-yr	W G Jun 07
7738-11U T7300	2.00	1GB	14.1" WXGA+	GMA	120G 5400	DVD±RW	*Intel 11a/b/g	None	/54	Blue 4	Business64	1-yr	W G May07
7733-1GU T7300	2.00	1GB	14.1" WXGA	GMA	80G 5400	Combo	*Intel 11a/b/g	None	Smart	Blue 4	Business32	3-yr	W G Jun 07
7733-11U T7300	2.00	1GB	14.1" WXGA	GMA	80G 5400	Combo	*Intel 11a/b/g	None	Smart	Blue 4	Business64	3-yr	W G May07
7733-01U T7300	2.00	1GB	14.1" WXGA	GMA	100G 7200	Combo	*Intel 11a/b/g	None	/54	6	XP Pro	3-yr	Aug07
7733-1EU T7300	2.00	1GB	14.1" WXGA	GMA	80G 5400	Combo	*Intel 11a/b/g	None	Smart	Blue 4	XP Pro	3-yr	G Sep07

Italic MTM: not a base model for building a custom model

Positioning Processor	<i>Everyday computing; two spindles</i> Intel® Celeron® Processor 540 with single-core, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 1MB L2 cache or Intel® Core™ 2 Duo processor T7300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional - Some: Microsoft Windows Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) ♦ <i>Vista models:</i> Vista Basic logo Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software (fingerprint models) • Multimedia Center for Think Offerings (XP) • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo, DVD±RW) • Corel® WinDVD® (combo, DVD±RW)	
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available		
Diskette drive	None (use optional USB-based diskette drive)		
EIDE Combo	<i>Some:</i> DVD-ROM/CD-RW (73P3288), 24X/24X/24X/8X ²¹ , removable Ultrabay™ Enh		
EIDE DVD±RW	<i>Some:</i> DVD burner, Super Multi-Burner (40Y8624) dual-layer, removable Ultrabay Enh		
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high		
Serial ATA disk	80GB⁸ (5400 rpm), 100GB (7200 rpm), or 120GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™		
Widescreen display	<i>Some:</i> 14.1" (358.1mm) WXGA (1280x800) color , anti-glare, 185 nits, 16:10, 300:1 <i>Some:</i> 14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, 200 nits, 16:10, 300:1		
Camera	None		
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock		
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys		
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass		
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions		
Dimensions ³	<i>4-cell 14.1W"</i> (WxDxH): 13.2" x 9.3" x 1.2–1.37"; 335mm x 237mm x 30.6–34.9mm		
Weight ²	<i>4-cell:</i> starting at 5.2 lb (2.4kg); <i>optional 6-cell:</i> starting at 5.5 lb (2.5kg)		
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic		
Battery - type	Lithium Ion 4-cell or 6-cell , supports unique 2nd battery in Ultrabay Slim		
Battery - life ¹⁰	<i>4-cell:</i> up to 3.6 hr; <i>6-cell:</i> up to 5.7 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.2 hr		
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)		
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit		
ExpressCard slot	<i>Some:</i> [/54] One ExpressCard/34 or ExpressCard/54		
Smart Card Read	<i>Some:</i> Smart Card Reader		
Multicard Reader	None		
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet); <i>Model 1EU:</i> IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)		
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios		
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable		
Intel 11a/b/g ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG		
WWAN	None		
Turbo Memory	None		
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket		
Bluetooth™	<i>Some:</i> Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator		
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE		
Intel AMT	None		
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack		
Security	Power-on password, hard disk password, supervisor password, security keyhole		
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant		
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip		
Limited warranty ¹²	7738: 1-year - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available 7733: 3-years/1-yr battery - EasyServ depot repair service / srv upgrades ²² available		
1GB PC2-5300 DDR2 SODIMM	40Y7734	T/R 14W Standard Battery 4-cell	41U3196
2GB PC2-5300 DDR2 SODIMM	40Y7735	T/R 14W Enhanced Battery 6-cell	41U3198
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643	T/R 14W High Capacity Batt 9-cell	43R2499
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725	Advanced Ultrabay Battery II 3-cell	43R9250
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410	90W Slim AC/DC Combo Adapter	41N8460
USB 2.0 Security Memory Key 4GB	41U5120	ThinkPad Business Topload Case	43R2476
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L2240p Wide 22" Monitor	4422HB6
ThinkPad Advanced Mini Dock	250410U	ThinkVision L2440x Wide 24" Monitor	4421HB2
Other accessories on O-R61-14W sheet		Other accessories at lenovo.com/accessories	

Supports ThinkVantage® technologies

65-watt (GMA graphics) AC adapter
ThinkPad Roll Cage and Top Cover
Roll Cage (one-piece magnesium)
ENERGY STAR® 4.0-compliant
RoHS-compliant
International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378

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

See footnotes for important warranty information

* Intel Centrino® processor technology

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US models announced May 9, June 19, Aug 21, Sept 4, or Nov 20, 2007

(LAG1-3) December 2007

⚡ US models withdrawn effective May 2008

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ⁸	rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe Intel Turbo	Card slot	Blue- tooth	Bat- tery cells	Preload	Whorse (W) Limited warranty ¹²	Gbl (G) GMP (P)	Avail date
7735-2U0	540	1.86	1GB	14.1" WXGA	GMA	80G	5400	Combo	Intel 11a/b/g ³²	None	/54	Blue	4	Business32	3-yr	W G P	Nov 07
7735-1GU	T7300	2.00	1GB	14.1" WXGA	GMA	80G	5400	Combo	*Intel 11a/b/g	None	Smart	Blue	4	Business32	3-yr	W G P	Jun 07
7735-11U	T7300	2.00	1GB	14.1" WXGA	GMA	80G	5400	Combo	*Intel 11a/b/g	None	Smart	Blue	4	Business64	3-yr	W G P	May 07
≧ 7735-1EU	T7300	2.00	1GB	14.1" WXGA	GMA	80G	5400	Combo	*Intel 11a/b/g	None	Smart	Blue	4	XP Pro	3-yr	W G P	May 07

• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	<p><i>Everyday computing; two spindles</i> Intel® Celeron® Processor 540 with single-core, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 1MB L2 cache or Intel Core™ 2 Duo processor T7300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology¹, Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache</p>											<p>Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional - Some: Microsoft Windows Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) ◇ Vista models: Vista Basic logo</p>					
Memory	<p>1GB std / 4GB max⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available</p>											<p>Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software (fingerprint models) • Multimedia Center for Think Offerings (XP) • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo) • Corel® WinDVD® (combo)</p>					
Diskette drive	None (use optional USB-based diskette drive)																
EIDE Combo	DVD-ROM/CD-RW (73P3288), 24X/24X/24X/8X ²¹ , removable Ultrabay™ Enhanced																
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high																
Serial ATA disk	80GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™																
Widescreen display	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio																
Camera	None																
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock																
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys																
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass																
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones																
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions																
Dimensions ³	4-cell 14.1W" (WxDxH): 13.2" x 9.3" x 1.2–1.37"; 335mm x 237mm x 30.6–34.9mm																
Weight ²	4-cell: starting at 5.2 lb (2.4kg); optional 6-cell: starting at 5.5 lb (2.5kg)																
Case material	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic																
Battery - type	Lithium Ion 4-cell , supports unique 2nd battery in Ultrabay Slim																
Battery - life ¹⁰	4-cell: up to 3.6 hr; 6-cell: up to 5.7 hr; 6-cell plus Ultrabay battery: up to 7.2 hr																
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoch® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)																
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit																
ExpressCard slot	Some: [54] One ExpressCard/34 or ExpressCard/54																
Smart Card Read	Some: Smart Card Reader																
Multicard Reader	None																
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet); Model 1EU: IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)																
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios																
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable																
Intel 11a/b/g ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG																
WWAN	None																
Turbo Memory	None																
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket																
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator																
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE																
Intel AMT	None																
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack											Supports ThinkVantage® technologies					
Security	Power-on password, hard disk password, supervisor password, security keyhole											65-watt (GMA graphics) AC adapter					
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant											ThinkPad Roll Cage and Top Cover					
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip											Roll Cage (one-piece magnesium)					
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available											ENERGY STAR® 4.0-compliant					
1GB PC2-5300 DDR2 SODIMM	40Y7734				T/R 14W Standard Battery 4-cell				41U3196				RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378 ThinkPlus™.22 4-year LOR ²⁴ 9x5 NBD 45K6038 ThinkPlus 5-year LOR 9x5 NBD 43R2162 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty				
2GB PC2-5300 DDR2 SODIMM	40Y7735				T/R 14W Enhanced Battery 6-cell				41U3198								
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643				T/R 14W High Capacity Batt 9-cell				43R2499								
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725				Advanced Ultrabay Battery II 3-cell				43R9250								
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411				90W Slim AC/DC Combo Adapter				41N8460								
USB 2.0 Ultra Secure Memory Key 8GB	45J5918				ThinkPad Business Topload Case				43R2476								
USB 2.0 Portable Secure 320GB Hard Disk	43R2019				ThinkPad Business Backpack				43R2482								
USB 2.0 Lenovo Enhanced Port Replicator	43R8770				ThinkVision® L2240p Wide 22" Monitor				4422HB6								
ThinkPad Advanced Mini Dock	250410U				ThinkVision L2440x Wide 24" Monitor				4421HB2								
Other accessories on O-R61-14W sheet												Other accessories at lenovo.com/accessories					

See footnotes for important warranty information

* Intel Centrino® processor technology

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US models announced May 9, June 19, or November 20, 2007

(LAG1-11) February 2008

≧ US models withdrawn effective May 2008

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ³	rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe Intel Turbo	Card slot	Finger print reader	Bat- tery cells	Vista pre- load	Educ pre- load	Workhorse (W) Limited warranty ¹²	(G) Avail date	
7733-1BU	T7300	2.00	1GB	14.1" WXGA	GMA	120G	5400	DVD±RW	11a/b/g ³²	None	4-in-1	Fing	6	B32	HE	EasyServ	W May07
7733-1CU	T7300	2.00	1GB	14.1" WXGA	GMA	80G	5400	Combo	11a/b/g	None	4-in-1	Fing	6	B32	K12	EasyServ	W May07

• **These models have an EasyServ™,19 depot repair service 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Everyday computing; two spindles</i> Intel® Core™ 2 Duo processor T7100 or T7300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache											Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ♦ Vista Basic logo				
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • <i>Some (K12):</i> K-12 education software - VitalSource Library School Edition - Adobe® Instructor Resource Center - Adobe Digital School Collection - Photoshop Elements 5 (and CD) - Premier Elements 3 (and DVD) - Acrobat 8 Professional - Contribute 4 • <i>Some (HE):</i> Higher education software - VitalSource Library College Edition - Adobe Instructor Resource Center - Adobe Photoshop Elements 5 (and CD) - Adobe Premier Elements 3 (and DVD)				
Diskette drive	None (use optional USB-based diskette drive)											• Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Windows Live™ Toolbar • Picasa from Google • <i>Some:</i> Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo, DVD±RW) • Corel® WinDVD® (combo, DVD±RW)				
EIDE Combo	<i>Some:</i> DVD-ROM/CD-RW (73P3288), 24X/24X/24X/8X ²¹ , removable Ultrabay™ Enh															
EIDE DVD±RW	<i>Some:</i> DVD burner, Super Multi-Burner (40Y8624) dual-layer, removable Ultrabay Enh															
Ultrabay Enhanced Serial ATA disk	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high 80GB⁸ (5400 rpm) or 120GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™															
Widescreen display	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio															
Camera	None															
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock															
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys															
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass															
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones															
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions															
Dimensions ³	<i>6-cell 14.1W"</i> (WxDxH): 13.2" x 10.2" x 1.2–1.37"; 335 x 261mm x 30.6–34.9mm															
Weight ²	<i>6-cell:</i> starting at 5.5 lb (2.5kg)															
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic															
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim															
Battery - life ¹⁰	<i>6-cell:</i> up to 5.7 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.2 hr															
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)															
PC Card Std	One slot (Type I, Type II), CardBus 32-bit															
ExpressCard slot	None															
Smart Card Read	None															
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)															
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)															
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios															
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable															
11a/b/g ³²	11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX															
WWAN	None															
Turbo Memory	None															
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket															
Bluetooth™	None															
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE															
Intel AMT	None															
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack															
Security	Power-on password, hard disk password, supervisor password, security keyhole															
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant															
Fingerprint reader	<i>Some:</i> Fingerprint reader on palm rest , swipe sensor, supports the security chip															
Limited warranty ¹²	3-years/1-yr battery - EasyServ™,19 depot repair service / service upgrades ²² avail															
1GB PC2-5300 DDR2 SODIMM	40Y7734			T/R 14W Standard Battery 4-cell				41U3196				ThinkPlus™,22 2-year LOR ²⁴ 9x5 NBD				
2GB PC2-5300 DDR2 SODIMM	40Y7735			T/R 14W Enhanced Battery 6-cell				41U3198				41C9175				
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643			T/R 14W High Capacity Batt 9-cell				43R2499				ThinkPlus 3-year LOR 9x5 NBD				
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725			Advanced Ultrabay Battery II 3-cell				43R9250				45K6021				
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410			ThinkPad External Battery Charger				40Y7625				ThinkPlus 4-year LOR 9x5 NBD				
USB 2.0 Essential Memory Key 32GB	45K1258			ThinkPad 90W AC Adapter				40Y7659				45K6022				
USB 2.0 Lenovo Enhanced Port Replicator	43R8770			90W Slim AC/DC Combo Adapter				41N8460				ThinkPlus 5-year LOR 9x5 NBD				
ThinkPad Essential Port Replicator	250510W			ThinkVision® L1940p Wide 19" Monitor				4424HB6				45K6024				
ThinkPad Advanced Mini Dock	250410U			ThinkVision L2240p Wide 22" Monitor				4422HB6				ThinkPlus 4-year P&L P/U Depot				
ThinkPad Advanced Dock	250310U			ThinkVision L2440x Wide 24" Monitor				4421HB2				45K6023				
Other accessories on O-R61-14W sheet												ThinkPlus 5-year P&L P/U Depot				
												45K6025				

See footnotes for important warranty information
 US models announced May 9, 2007

Type-model	Processor	GHz	Memory	Wide-screen display	Graphics controller	Disk SATA GB ³	rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe Intel Turbo	Card slot	Finger print reader	Battery cells	Vista pre-load	Educ pre-load	Workhorse (W) Limited Gbl (G) warranty ¹²	Avail date
7735-1BU	T7300	2.00	1GB	14.1" WXGA	GMA	120G	5400	DVD±RW	11a/b/g ³²	None	4-in-1	Fing	6	B32	HE	Onsite	W May07
7735-1CU	T7100	1.80	1GB	14.1" WXGA	GMA	80G	5400	Combo	11a/b/g	None	4-in-1	Fing	6	B32	K12	Onsite	W May07

• **These models have a limited onsite service²⁴ 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Everyday computing; two spindles</i> Intel® Core™ 2 Duo processor T7100 or T7300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, and 800MHz system bus; T7100: 2MB shared L2 cache; T7300: 4MB shared L2 cache											Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ♦ Vista Basic logo					
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											Preloaded applications¹⁴ (all) • Microsoft Office OneNote® 2007 (and CD) • <i>Some (K12):</i> K-12 education software - VitalSource Library School Edition - Adobe® Instructor Resource Center - Adobe Digital School Collection - Photoshop Elements 5 (and CD) - Premier Elements 3 (and DVD) - Acrobat 8 Professional - Contribute 4 • <i>Some (HE):</i> Higher education software - VitalSource Library College Edition - Adobe Instructor Resource Center - Adobe Photoshop Elements 5 (and CD) - Adobe Premier Elements 3 (and DVD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • <i>Some:</i> Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo, DVD±RW) • Corel® WinDVD® (combo, DVD±RW)					
Diskette drive	None (use optional USB-based diskette drive)																
EIDE Combo	<i>Some:</i> DVD-ROM/CD-RW (73P3288), 24X/24X/24X/8X ²¹ , removable Ultrabay™ Enh																
EIDE DVD±RW	<i>Some:</i> DVD burner, Super Multi-Burner (40Y8624) dual-layer, removable Ultrabay Enh																
Ultrabay Enhanced Serial ATA disk	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high 80GB⁸ (5400 rpm) or 120GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™																
Widescreen display	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio																
Camera	None																
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock																
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys																
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass																
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones																
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions																
Dimensions ³	<i>6-cell 14.1W" (WxDxH):</i> 13.2" x 10.2" x 1.2–1.37"; 335 x 261mm x 30.6–34.9mm																
Weight ²	<i>6-cell:</i> starting at 5.5 lb (2.5kg)																
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic																
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim																
Battery - life ¹⁰	<i>6-cell:</i> up to 5.7 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.2 hr																
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)																
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit																
ExpressCard slot	None																
Smart Card Reader	None																
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)																
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)																
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios																
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable																
11a/b/g ³²	11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX																
WWAN	None																
Turbo Memory	None																
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket																
Bluetooth™	None																
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE																
Intel AMT	None																
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack																
Security	Power-on password, hard disk password, supervisor password, security keyhole																
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant																
Fingerprint reader	<i>Some:</i> Fingerprint reader on palm rest , swipe sensor, supports the security chip																
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time											Supports ThinkVantage® technologies					
1GB PC2-5300 DDR2 SODIMM	40Y7734		T/R 14W Enhanced Battery 6-cell				41U3198				65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378						
2GB PC2-5300 DDR2 SODIMM	40Y7735		T/R 14W High Capacity Batt 9-cell				43R2499										
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643		Advanced Ultrabay Battery II 3-cell				43R9250										
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725		ThinkPad External Battery Charger				40Y7625										
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411		90W Slim AC/DC Combo Adapter				41N8460										
USB 2.0 Portable Secure 320GB Hard Disk	43R2019		ThinkPad Business Topload Case				43R2476										
USB 2.0 Super Multi-Burner Drive	41N5565		ThinkPad Business Backpack				43R2482										
USB 2.0 Lenovo Enhanced Port Replicator	43R8770		ThinkVision® L1940p Wide 19" Monitor				4424HB6										
ThinkPad Essential Port Replicator	250510W		ThinkVision L2240p Wide 22" Monitor				4422HB6										
ThinkPad Advanced Dock	250310U		ThinkVision L2440p Wide 24" Monitor				4420HB2										
Other accessories on O-R61-14W sheet	Other accessories at lenovo.com/accessories											Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty					

See footnotes for important warranty information
 US models announced May 9, 2007

ThinkPad® R61u 14W 7733 (GMA) - Education (EasyServ)

Personal Systems Reference (PSREF)

Proc- Type-model	Processor GHz	Memory	Wide- screen display	Graphics controller	Cam- era	Disk SATA GB ³ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe Intel Turbo slot	Card slot	Blue- tooth	Finger print reader	Bat- tery cells	Vista pre- load	Workhorse (W) Limited Gbl (G) warranty ¹²	Avail date
7733-PAU	T8300	2.40	1GB	14.1" WXGA	GMA	80G 5400	Combo	11a/b/g	None	/54			6	B32	EasyServ	No Feb 08
7733-PBU	T8300	2.40	1GB	14.1" WXGA+	GMA	100G 7200	DVD±RW	11a/b/g	None	/54	Blue	Fing	6	B32	EasyServ	No Feb 08
7733-05U	T8300	2.40	2GB	14.1" WXGA	GMA	160G 5400	DVD±RW	11a/b/g	None	4-in-1	Blue	Fing	6	B32	EasyServ	No Apr 08

Italic MTM: not a base model for building a custom model

• **These models have an EasyServ™ depot repair service 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Everyday computing; two spindles</i> Intel® Core™ 2 Duo processor T8300 with dual-core. Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 3MB shared L2 cache	Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ◇ Vista Basic logo
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available	Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Some: Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo, DVD±RW) • Corel® WinDVD® (combo, DVD±RW)
Diskette drive	None (use optional USB-based diskette drive)	
EIDE Combo	<i>Some:</i> DVD-ROM/CD-RW (73P3288), 24X/24X/24X/8X ²¹ , removable Ultrabay™ Enh	
EIDE DVD±RW	<i>Some:</i> DVD burner, Super Multi-Burner (40Y8624) dual-layer, removable Ultrabay Enh	
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high	
Serial ATA disk	80GB⁸ (5400 rpm), 100GB (7200 rpm), or 160GB (5400 rpm) / SATA 1.5Gb/s 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	<i>Some:</i> 14.1" (358.1mm) WXGA (1280x800) color , anti-glare, 185 nits, 16:10, 300:1 <i>Some:</i> 14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, 200 nits, 16:10, 300:1	
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0	
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock	
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys	
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones	
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³	<i>6-cell 14.1W" (WxDxH):</i> 13.2" x 10.2" x 1.2–1.37"; 335 x 261mm x 30.6–34.9mm	
Weight ²	<i>6-cell:</i> starting at 5.5 lb (2.5kg)	
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic	
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim	
Battery - life ¹⁰	<i>6-cell:</i> up to 5.7 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.2 hr	
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)	
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit	
ExpressCard slot	<i>Some:</i> [/54] One ExpressCard/34 or ExpressCard/54	
Smart Card Read	None	
Multicard Reader	<i>Some:</i> 4-in-1 reader (MultiMediaCard, Mem Stick® PRO, Sec Digital, xD-Picture Card™)	
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios	
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable	
11a/b/g ³²	11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX	
WWAN	None	
Turbo Memory	None	
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket	
Bluetooth™	<i>Some:</i> Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator	
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE	
Intel AMT	None	
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant	
Fingerprint reader	<i>Some:</i> Fingerprint reader on palm rest , swipe sensor, supports the security chip	
Limited warranty ¹² 3-years/1-yr battery - EasyServ™ depot repair service / service upgrades ²² available		
512MB PC2-5300 DDR2 SODIMM	40Y7733	T/R 14W Standard Battery 4-cell 41U3196
1GB PC2-5300 DDR2 SODIMM	40Y7734	T/R 14W Enhanced Battery 6-cell 41U3198
2GB PC2-5300 DDR2 SODIMM	40Y7735	T/R 14W High Capacity Batt 9-cell 43R2499
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643	Advanced Ultrabay Battery II 3-cell 43R9250
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725	ThinkPad External Battery Charger 40Y7625
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad 90W AC Adapter 40Y7659
ThinkPad Adjustable Notebook Stand	40Y7676	90W Slim AC/DC Combo Adapter 41N8460
ThinkPad Essential Port Replicator	250510W	ThinkVision® L1940p Wide 19" Monitor 4424HB6
ThinkPad Advanced Mini Dock	250410U	ThinkVision L2240p Wide 22" Monitor 4422HB6
ThinkPad Advanced Dock	250310U	ThinkVision L2440p Wide 24" Monitor 4420HB2
Other accessories on O-R61-14W sheet		Other accessories at lenovo.com/accessories
		Supports ThinkVantage® technologies
		65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
		ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175
		ThinkPlus 3-year LOR 9x5 NBD 45K6021
		ThinkPlus 4-year LOR 9x5 NBD 45K6022
		ThinkPlus 5-year LOR 9x5 NBD 45K6024
		ThinkPlus 4-year P&L P/U Depot 45K6023
		ThinkPlus 5-year P&L P/U Depot 45K6025
		Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information

US model announced April 10, 2008; previous models on February 19, 2008

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Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller	Cam- era	Disk SATA GB ⁸ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe Intel Turbo	Card slot	Bat- tery cells	Linux preload	Limited warranty ¹²	Workhorse (W) Gbl (G) Avail date
7733-3AU	T8100	2.10	1GB	14.1" WXGA	GMA	No	80G 5400	Combo	*Intel 11a/b/g ³²	None	/54	6	SLED10	EasyServ No Feb 08

• **This model has an EasyServ™.19 depot repair service 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Everyday computing; two spindles</i> Intel® Core™ 2 Duo processor T8100 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 3MB shared L2 cache										Preloaded operating system²⁰ - SUSE® Linux™ Enterprise Desktop10 Service Pack 1 Preloaded applications¹⁴ • None			
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										Supported devices (only some listed) • HD Audio • Intel 3945ABG wireless • Intel Graphics Media Accelerator X3100 (GMA X3100) • NVIDIA Quadro NVS 140M • Fingerprint reader • Bluetooth • Function keys • ThinkPad Advanced Dock			
Diskette drive	None (use optional USB-based diskette drive)										Non-supported devices (only some listed) • Intel 4965AG, Intel 4965AGN, ThinkPad 11a/b/g, ThinkPad 11n wireless • WWAN • Active Protection System™ • ThinkVantage® button • Security chip • Intel Turbo Memory • Intel AMT technology • Integrated camera			
EIDE Combo	DVD-ROM/CD-RW (73P3288), 24X/24X/24X/8X ²¹ , removable Ultrabay™ Enhanced													
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high										Non-supported applications (only some listed) • ThinkPad Utilities • ThinkVantage technologies • Presentation Director • Encrypted DVD playback • Keyboard Customizer			
Serial ATA disk	80GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™													
Widescreen display	<i>Some:</i> 14.1" (358.1mm) WXGA (1280x800) color , anti-glare, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio										Supports ThinkVantage® technologies 65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378 ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
Camera	None													
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965													
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys													
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass													
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones													
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³	<i>6-cell 14.1W"</i> (WxDxH): 13.2" x 10.2" x 1.2–1.37"; 335 x 261mm x 30.6–34.9mm													
Weight ²	<i>6-cell:</i> starting at 5.5 lb (2.5kg)													
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic													
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim													
Battery - life ¹⁰	<i>6-cell:</i> up to 5.7 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.2 hr													
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoch® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)													
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit													
ExpressCard slot	[/54] One ExpressCard/34 or ExpressCard/54													
Smart Card Read	None													
Multicard Reader	None													
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)													
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios													
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable													
Intel 11a/b/g ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG													
WWAN	None													
Turbo Memory	None													
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket													
Bluetooth™	None													
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE													
Intel AMT	None													
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack													
Security	Power-on password, hard disk password, supervisor password, security keyhole													
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant													
Fingerprint reader	None													
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades²² available													
512MB PC2-5300 DDR2 SODIMM	40Y7733			T/R 14W Standard Battery 4-cell			41U3196							
1GB PC2-5300 DDR2 SODIMM	40Y7734			T/R 14W Enhanced Battery 6-cell			41U3198							
2GB PC2-5300 DDR2 SODIMM	40Y7735			T/R 14W High Capacity Batt 9-cell			43R2499							
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643			Advanced Ultrabay Battery II 3-cell			43R9250							
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725			ThinkPad External Battery Charger			40Y7625							
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410			ThinkPad 90W AC Adapter			40Y7659							
ThinkPad Adjustable Notebook Stand	40Y7676			90W Slim AC/DC Combo Adapter			41N8460							
ThinkPad Essential Port Replicator	250510W			ThinkVision® L1940p Wide 19" Monitor			4424HB6							
ThinkPad Advanced Mini Dock	250410U			ThinkVision L2240p Wide 22" Monitor			4422HB6							
ThinkPad Advanced Dock	250310U			ThinkVision L2440x Wide 24" Monitor			4421HB2							
Check Linux compatibility for other accessories	Other accessories at lenovo.com/accessories													

See footnotes for important warranty information
US model announced February 19, 2008

* Intel Centrino® processor technology

Proc-Model	Processor	GHz	Memory	Wide-screen display	Graphics controller	Disk SATA GB ³	rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe Intel Turbo	Card slot	Cam- era	Blue- tooth	Finger- print reader	Bat- tery cells	Vista pre- load	Workhorse (W) Limited Gbl (G) Avail date
7743-N4U	T8300	2.40	1GB	14.1" WXGA+	128MB	100G	7200	DVD±RW	11a/b/g	None	4-in-1	Cam	Blue	Fing	6	B32	EasyServ No Feb 08
7743-05U	T8300	2.40	2GB	14.1" WXGA+	128MB	160G	5400	DVD±RW	11a/b/g	None	4-in-1	Cam	Blue	Fing	6	B32	EasyServ No Apr 08
<i>Italic MTM: not a base model for building a custom model</i>																	
<p>• These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty</p> <p>Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>																	
Positioning Processor	<p><i>Everyday computing; two spindles</i> Intel® Core™ 2 Duo processor T8300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology¹, Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 3MB shared L2 cache</p>													<p>Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ♦ Vista Basic logo</p>			
Memory	<p>1GB or 2GB std / 4GB max⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available</p>													<p>Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Some: Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW)</p>			
Diskette drive	None (use optional USB-based diskette drive)																
EIDE DVD±RW	DVD burner, Super Multi-Burner (40Y8624) dual-layer, removable Ultrabay Enhanced																
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high																
Serial ATA disk	<p>100GB (7200 rpm) or 160GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>																
Widescreen display	14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio																
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0																
Graphics	NVIDIA® Quadro® NVS 140M , PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock																
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys																
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass																
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones																
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions																
Dimensions ³	6-cell 14.1W" (WxDxH): 13.2" x 10.2" x 1.2–1.37"; 335 x 261mm x 30.6–34.9mm																
Weight ²	6-cell: starting at 5.5 lb (2.5kg)																
Case material	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic																
Battery - type	Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim																
Battery - life ¹⁰	6-cell: up to 5.7 hr; 6-cell plus Ultrabay battery: up to 7.2 hr																
Chipset	<p>Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoch® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)</p>																
PC Card	One slot (Type I, Type II), CardBus 32-bit																
ExpressCard slot	None																
Smart Card Read	None																
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)																
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)																
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios																
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable																
11a/b/g ³²	11a/b/g wireless ¹ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX																
WWAN	None																
Turbo Memory	None																
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket																
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator																
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE																
Intel AMT	None																
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack																
Security	Power-on password, hard disk password, supervisor password, security keyhole																
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant																
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip																
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available																
512MB PC2-5300 DDR2 SODIMM	40Y7733	T/R 14W Standard Battery 4-cell	41U3196														
1GB PC2-5300 DDR2 SODIMM	40Y7734	T/R 14W Enhanced Battery 6-cell	41U3198														
2GB PC2-5300 DDR2 SODIMM	40Y7735	T/R 14W High Capacity Batt 9-cell	43R2499														
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643	Advanced Ultrabay Battery II 3-cell	43R9250														
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725	ThinkPad External Battery Charger	40Y7625														
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410	ThinkPad 90W AC Adapter	40Y7659														
USB 2.0 Essential Memory Key 32GB	45K1258	90W Slim AC/DC Combo Adapter	41N8460														
ThinkPad Essential Port Replicator	250510W	ThinkVision® L1940p Wide 19" Monitor	4424HB6														
ThinkPad Advanced Mini Dock	250410U	ThinkVision L2240p Wide 22" Monitor	4422HB6														
ThinkPad Advanced Dock	250310U	ThinkVision L2440x Wide 24" Monitor	4421HB2														
Other accessories on O-R61-14W sheet	Other accessories at lenovo.com/accessories																
													Supports ThinkVantage® technologies				
													65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378				
													ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175				
													ThinkPlus 3-year LOR 9x5 NBD 45K6021				
													ThinkPlus 4-year LOR 9x5 NBD 45K6022				
													ThinkPlus 5-year LOR 9x5 NBD 45K6024				
													ThinkPlus 4-year P&L P/U Depot 45K6023				
													ThinkPlus 5-year P&L P/U Depot 45K6025				
													Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty				

See footnotes for important warranty information

US model announced April 10, 2008; previous model on February 19, 2008

ThinkPad® R61u 14W 7743 (NVIDIA) - Education (EasyServ) - Linux

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ⁸ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe Intel Turbo slot	Card Blue- tooth	Finger print reader	Bat- tery cells	Linux pre- load	Workhorse (W) Limited Gbl (G) warranty ¹²	Avail date
7743-3BU	T8300	2.40 1GB	14.1" WXGA+	128MB	120G 5400	DVD±RW	*Intel 11a/b/g ³²	None /54	Blue	None	6	SLED10	EasyServ No Feb 08	
<p>• This model has an EasyServ™.19 depot repair service 3-year limited warranty</p> <p>Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>														
Positioning Processor	<p><i>Everyday computing; two spindles</i> Intel® Core™ 2 Duo processor T8300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology¹, Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 3MB shared L2 cache</p>										<p>Preloaded operating system²⁰ - SUSE® Linux™ Enterprise Desktop10 Service Pack 1</p> <p>Preloaded applications¹⁴ • None</p> <p>Supported devices (only some listed) • HD Audio • Intel 3945ABG wireless • Intel Graphics Media Accelerator X3100 (GMA X3100) • NVIDIA Quadro NVS 140M • Fingerprint reader • Bluetooth • Function keys • ThinkPad Advanced Dock</p> <p>Non-supported devices (only some listed) • Intel 4965AG, Intel 4965AGN, ThinkPad 11a/b/g, ThinkPad 11n wireless • WWAN • Active Protection System™ • ThinkVantage® button • Security chip • Intel Turbo Memory • Intel AMT technology • Integrated camera</p> <p>Non-supported applications (only some listed) • ThinkPad Utilities • ThinkVantage technologies • Presentation Director • Encrypted DVD playback • Keyboard Customizer</p>			
Memory	<p>1GB std / 4GB max⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available</p>													
Diskette drive	None (use optional USB-based diskette drive)													
EIDE DVD±RW	DVD burner, Super Multi-Burner (40Y8624) dual-layer, removable Ultrabay Enhanced													
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high													
Serial ATA disk	<p>120GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>													
Widescreen display	14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio													
Camera	None													
Graphics	NVIDIA® Quadro® NVS 140M , PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock													
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys													
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass													
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones													
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³	6-cell 14.1W" (WxDxH): 13.2" x 10.2" x 1.2–1.37"; 335 x 261mm x 30.6–34.9mm													
Weight ²	6-cell: starting at 5.5 lb (2.5kg)													
Case material	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic													
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim													
Battery - life ¹⁰	6-cell: up to 5.7 hr; 6-cell plus Ultrabay battery: up to 7.2 hr													
Chipset	<p>Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoch® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)</p>													
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit													
ExpressCard slot	[/54] One ExpressCard/34 or ExpressCard/54													
Smart Card Read	None													
Multicard Reader	None													
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)													
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios													
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable													
Intel 11a/b/g ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG													
WWAN	None													
Turbo Memory	None													
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket													
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator													
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE													
Intel AMT	None													
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack													
Security	Power-on password, hard disk password, supervisor password, security keyhole													
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant													
Fingerprint reader	None													
Limited warranty ¹² 3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades²² available														
512MB PC2-5300 DDR2 SODIMM	40Y7733			T/R 14W Standard Battery 4-cell			41U3196							
1GB PC2-5300 DDR2 SODIMM	40Y7734			T/R 14W Enhanced Battery 6-cell			41U3198							
2GB PC2-5300 DDR2 SODIMM	40Y7735			T/R 14W High Capacity Batt 9-cell			43R2499							
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643			Advanced Ultrabay Battery II 3-cell			43R9250							
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725			ThinkPad External Battery Charger			40Y7625							
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411			ThinkPad 90W AC Adapter			40Y7659							
ThinkPad Adjustable Notebook Stand	40Y7676			90W Slim AC/DC Combo Adapter			41N8460							
ThinkPad Essential Port Replicator	250510W			ThinkVision® L1940p Wide 19" Monitor			4424HB6							
ThinkPad Advanced Mini Dock	250410U			ThinkVision L2240p Wide 22" Monitor			4422HB6							
ThinkPad Advanced Dock	250310U			ThinkVision L2440p Wide 24" Monitor			4420HB2							
Check Linux compatibility for other accessories														
Other accessories at lenovo.com/accessories														
<p>Supports ThinkVantage® technologies</p> <p>65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p> <p>ThinkPlus™.22 2-year LOR²⁴ 9x5 NBD 41C9175</p> <p>ThinkPlus 3-year LOR 9x5 NBD 45K6021</p> <p>ThinkPlus 4-year LOR 9x5 NBD 45K6022</p> <p>ThinkPlus 5-year LOR 9x5 NBD 45K6024</p> <p>ThinkPlus 4-year P&L P/U Depot 45K6023</p> <p>ThinkPlus 5-year P&L P/U Depot 45K6025</p> <p>Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty</p>														

See footnotes for important warranty information
 US model announced February 19, 2008

* Intel Centrino® processor technology

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 (LAG-2) February 2008

Partial list of accessories supported on:**• ThinkPad R61 14W originally announced on May 9, 2007****Memory**

512MB PC2-5300 DDR2 SODIMM	40Y7733	ann	01/05/06
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	ann	03/25/08
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann	01/05/06
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	ann	03/25/08
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann	11/28/06

Ultrabay Slim 9.5mm (supports both flat and curved bezel options)
 Serial Hard Drive Ultrabay Slim Adapter (flat)⁴⁸ 40Y8725 ann 09/20/05
 ThinkPad DVD Ultrabay Slim Burner (flat)⁴⁸ 41N5643 ann 05/31/07
⁴⁸ Slim 9.5mm device in 12.7mm bay shows gap above the device.

Ultrabay Enhanced 12.7mm (supports both flat and curved bezel)
 CD-RW/DVD Combo Ultrabay Enhanced (cur) 73P3275 ann 10/07/03

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann	03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann	10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann	01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann	01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann	08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann	01/20/09

⁴¹ Can be used as the main HDD or with *ThinkPad Serial ATA Hard Drive Ultrabay Slim Adapter 40Y8725* in the Ultrabay or in the *ThinkPad Advanced Dock 250310U*.

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 Security Memory Key 2GB	41U5119	ann	07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann	07/17/07
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 Portable Diskette Drive	05K9276	ann	06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann	01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann	09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann	01/23/07

ThinkPad Expansion

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann	02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann	09/20/05
ThinkPad Essential Port Replicator	250510W	ann	09/20/05
ThinkPad Advanced Mini Dock	250410U	ann	09/20/05
ThinkPad Advanced Dock	250310U	ann	09/20/05

Keyboard

TrackPoint Cap Collection	73P2698	ann	12/16/03
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04
USB Keyboard with UltraNav	31P8950	ann	01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann	04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann	05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann	08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann	06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann	11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann	11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann	01/22/08
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04

Security

Kensington® Cable Lock from Lenovo	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
PC Card Gemplus Smart Card Reader	41N3004	ann	12/13/05
ExpressCard Gemplus Smart Card Reader	41N3043	ann	06/27/06

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann	06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann	08/29/06

Batteries

T/R 14W Standard Battery 4-cell	41U3196	ann	05/09/07
T/R 14W Enhanced Battery 6-cell	41U3198	ann	05/09/07
T/R 14W High Capacity Battery 9-cell	43R2499	ann	03/04/08
Advanced Ultrabay Battery II 3-cell ⁴³	43R9250	ann	04/22/08
⁴³ Used in Ultrabay Slim bay.			
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann	09/20/05
⁴⁴ Requires the <i>ThinkPad 90W AC Adapter 40Y7659</i> (adapter provided with some systems).			
ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann	01/05/06
⁴⁵ Only compatible with the 945GM and GM965 chipset models.			
ThinkPad 90W AC Adapter	40Y7659	ann	09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460	ann	11/27/07

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460

•Dual (ThinkPad+Phone) Charging Y-Cable	41R4345	ann	12/18/07
•BlackBerry charge tip (L8a)	41R4478	ann	12/18/07
•iPod and iPhone charge tip (L10a)	41R4481	ann	12/18/07

Carrying Cases

<i>Up to 14.1" widescreen models:</i>			
ThinkPad Expander Case	43R9118	ann	06/24/08
ThinkPad Women's Microfiber Tote	22P8855		
ThinkPad Women's Leather Trim Tote	22P8856		
ThinkPad Convertible Carrying Case	22P8860		
ThinkPad Women's Executive Leather Tote	22P8857		
Women's Executive Red Leather Tote	22P8858		

Up to 15.4" widescreen models:

Lenovo Carrying Case - Messenger Max	41U5253	ann	05/01/07
Lenovo Carr Case - Performance Backpack	41U5254	ann	05/01/07
Lenovo Standard Case	45K1697	ann	11/25/08
Lenovo Standard Backpack	45K1698	ann	11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann	02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann	08/12/08
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Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann	04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann	09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann	11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann	09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann	04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann	09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann	09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann	09/17/08

Monitor Accessories⁴⁶

ThinkVision USB Soundbar	40Y7616	ann	08/23/05
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann	01/05/06
Radial Arm	19K4464	ann	05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad® R61 15W 8934 (GMA) - 3-year (TopSeller)

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Cam-era	Graphics controller	Disk SATA GB ⁸ rpm	EIDE optical	Mini PCIe 802.11 wireless	Card slot	Finger print reader	Blue-tooth	Bat-tery cells	Workhorse (W) Global (G) Educ	Avail date
8934-A7U	T7100	1.80	1GB	15.4" WXGA		GMA	120G 5400	DVD±RW	*Intel 11a/b/g ³²	/54	Fing		6	XP Pro	Jul 07
8934-BTU	T7250	2.00	1GB	15.4" WXGA		GMA	160G 5400	DVD±RW	*Intel 11a/b/g	/54	Fing		6	Bus 32	Sep 07
8934-F9U	T8100	2.10	1GB	15.4" WXGA		GMA	160G 5400	DVD±RW	*Intel 11a/b/g	/54	Fing		6	XP Pro	Jan 08
8934-FAU	T8300	2.40	1GB	15.4" WXGA		GMA	160G 5400	DVD±RW	*Intel 11a/b/g	/54	Fing		6	Bus 32	Jan 08
8934-01U	T8100	2.10	2GB	15.4" WXGA		GMA	160G 5400	DVD±RW	*Intel 11a/b/g	/54	Fing		6	Bus 32 Educ	May 08
8934-02U	Celeron 550	2.00	1GB	15.4" WSXGA+	Cam	GMA	80G 5400	DVD±RW	Intel 4965AG ³²	4-in-1	Fing	Blue	6	Bus 32 Educ	Aug 08
<ul style="list-style-type: none"> • These small and medium business (SMB) models are part of the US TopSeller™ Program • These models have a 3-year limited warranty¹² 															
Positioning	Everyday computing; two spindles										Preloaded operating system ²⁰				
Processor	Intel® Celeron® Processor 550 with single-core, 533MHz system bus, and 1MB L2 cache or Intel Core™ 2 Duo processor T7100, T7250, T8100, or T8300 with dual-core, 800MHz system bus, T7100/T7250: 2MB L2 cache; T8100/T8300: 3MB L2 cache										- Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ Vista models: Vista Basic logo				
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications ¹⁴ (all OSes) • Some: Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection – Photoshop Elements (and CD) – Premier Elements (and DVD) – Acrobat 8 Professional – Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software (fingerprint models) • Multimedia Center for Think Offerings (XP Pro) • Microsoft Office 2007 Trial (60-day) • Sonic RecordNOW and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW) • Corel WinDVD Creator (XP Pro DVD±RW models)				
Diskette drive	None (use optional USB-based diskette drive)										Supports ThinkVantage® technologies				
EIDE DVD±RW	DVD burner, Super Multi-Burner (40Y8624) dual-layer, removable Ultrabay™ Enhanced														
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high														
Serial ATA disk	80GB ⁸ (5400 rpm), 120GB (5400 rpm) or 160GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™														
Widescreen display	Some: 15.4" (391mm) WXGA (1280x800) color, anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio										65-watt (GMA graphics) ThinkPad Roll Cage (one-piece magnesium frame) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378				
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0														
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965, no DVI pass-through support to optional Advanced Mini Dock or Advanced Dock														
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass														
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones														
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.39–1.52"; 358.5 x 260.0mm x 35.3–38.5mm														
Weight ²	6-cell: starting at 6.4 lb (2.9kg); 9-cell: starting at 6.7 lb (3.1kg)														
Case material	Black color, Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type	Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Enhanced														
Battery - life ¹⁰	6-cell: up to 5.0 hr; 9-cell: up to 7.0 hr; 6-cell plus Ultrabay battery: up to 8.5 hr														
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty				
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit														
ExpressCard slot	Some: /54 One ExpressCard/34 or ExpressCard/54														
Smart Card Read	None														
Multicard Reader	Some: 4-in-1 reader (MultiMediaCard, Mem Stick® PRO, Sec Digital, xD-Picture Card™)														
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard), S-Video out														
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios														
Mini PCI Express	One Mini PCI Express slot / 802.11 wireless is customer upgradable														
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG														
Intel 4965AG ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG														
WWAN	None														
Turbo Memory	None														
Modem	56K V.92 ⁶ modem, on systemboard, Conexant® CX20548														
Bluetooth™	Some: Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator														
Ethernet	Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE														
Intel AMT	None														
Audio support	High Definition (HD) Audio, CX20549 codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant														
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supported with security chip														
Limited warranty ¹² 3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available															
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799												
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797												
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725	Advanced Ultrabay Battery II 3-cell	43R9250												
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	90W Slim AC/DC Combo Adapter	41N8460												
USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ThinkPad Business Topload Case	43R2476												
ThinkPad Advanced Mini Dock	250410U	ThinkVision® L2240p Wide 22" Monitor	4422HB6												
ThinkPad Advanced Dock	250310U	ThinkVision L2440x Wide 24" Monitor	4421HB2												
Other accessories on O-R61-15W sheet		Other accessories at lenovo.com/accessories													

See footnotes for important warranty information

* Intel Centrino® processor technology

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Ⓜ US model announced August 1, 2008; previous models on July 10, Sep 18, 2007, Jan 8, or May 9, 2008

(WKK11-2) August 2008

⚡ US model withdrawn effective December 2007

ThinkPad® R61u 15W 8933 (GMA) - Education (EasyServ)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Graphics controller	Disk SATA GB ³ rpm	EIDE optical	Mini PCIe 802.11 wireless	Card slot	Finger print reader	Blue- tooth	Bat- tery cells	Workhorse (W) Global (G)	Avail date
8933-ESU	T8100	2.10	1GB	15.4" WXGA	Cam	GMA	80G 5400	Combo	11a/b/g	/54	Finger	Blue	6	Business32	No Jan 08
8933-ETU	T8300	2.40	1GB	15.4" WSXGA+	Cam	GMA	100G 7200	Combo	11a/b/g	/54	Finger	Blue	6	Business32	No Jan 08
<p>• These models have an EasyServ™,19 depot repair service 3-year limited warranty</p> <p>Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>															
Positioning Processor	<p><i>Everyday computing; two spindles</i> Intel® Core™ 2 Duo processor T8100 or T8300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology¹, Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 3MB shared L2 cache</p>													<p>Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ⇨ Vista Basic logo</p>	
Memory	<p>1GB std / 4GB max⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available</p>													<p>Preloaded applications¹⁴ • Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Some: Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (Combo) • Corel® WinDVD® (Combo)</p>	
Diskette drive	None (use optional USB-based diskette drive)														
EIDE Combo	DVD-ROM/CD-RW (73P3288), 24X/24X/24X/8X21, removable Ultrabay™ Enh, curved														
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high														
Serial ATA disk	<p>80GB⁸ (5400 rpm) or 100GB (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>														
Widescreen display	<p><i>Some:</i> 15.4" (391mm) WXGA (1280x800) color, anti-glare, 200 nits, 16:10, 300:1 <i>Some:</i> 15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, 200 nits, 16:10, 300:1</p>														
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0														
Graphics	<p>Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965, no DVI pass-through support to optional Advanced Mini Dock or Advanced Dock</p>														
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass														
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones														
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³	<i>6-cell 15.4W"</i> (WxDxH): 14.1" x 10.2" x 1.39–1.52"; 358.5 x 260.0mm x 35.3–38.5mm														
Weight ²	<i>6-cell:</i> starting at 6.4 lb (2.9kg); <i>9-cell:</i> starting at 6.7 lb (3.1kg)														
Case material	Black color, Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Enhanced														
Battery - life ¹⁰	<i>6-cell:</i> up to 5.0 hr; <i>9-cell:</i> up to 7.0 hr; <i>6-cell plus Ultrabay battery:</i> up to 8.5 hr														
Chipset	<p>Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)</p>														
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit														
ExpressCard slot	[54] One ExpressCard/34 or ExpressCard/54														
Smart Card Read	None														
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)														
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard), S-Video out														
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios														
Mini PCI Express	One Mini PCI Express slot / 802.11 wireless is customer upgradable														
Intel 11a/b/g ³²	11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX														
WWAN	None														
Turbo Memory	None														
Modem	56K V.92 ⁶ modem, on systemboard, Conexant® CX20548														
Bluetooth™	<i>Some:</i> Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator														
Ethernet	Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE														
Intel AMT	None														
Audio support	High Definition (HD) Audio, CX20549 codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant														
Fingerprint reader	<i>Some:</i> Fingerprint reader on palm rest , swipe sensor, supported with security chip														
Limited warranty ¹²	3-years/1-yr battery - EasyServ™,19 depot repair service / service upgrades ²² available													<p>ThinkPlus™,22 2-year LOR²⁴ 9x5 NBD 41C9175</p>	
1GB PC2-5300 DDR2 SODIMM	40Y7734			T/R/W/SL Series Li-Ion Battery 6-cell			40Y6799			ThinkPlus 3-year LOR 9x5 NBD			45K6021		
2GB PC2-5300 DDR2 SODIMM	40Y7735			T/R/W/SL Series Li-Ion Battery 9-cell			40Y6797			ThinkPlus 3-year LOR 9x5 NBD			45K6021		
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725			Advanced Ultrabay Battery II 3-cell			43R9250			ThinkPlus 4-year LOR 9x5 NBD			45K6022		
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643			ThinkPad External Battery Charger			40Y7625			ThinkPlus 5-year LOR 9x5 NBD			45K6024		
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410			ThinkPad 90W AC Adapter			40Y7659			ThinkPlus 4-year P&L P/U Depot			45K6023		
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411			90W Slim AC/DC Combo Adapter			41N8460			ThinkPlus 5-year P&L P/U Depot			45K6025		
USB 2.0 Ultra Secure Memory Key 8GB	45J5918			ThinkPad Business Topload Case			43R2476			Post-warranty annual maintenance agreements at			lenovo.com/thinkplus/warranty		
USB 2.0 Super Multi-Burner Drive	41N5565			ThinkPad Business Backpack			43R2482								
ThinkPad Convertible Monitor Stand	40Y7620			ThinkPad Deluxe Expander Case			43R2478								
ThinkPad Essential Port Replicator	250510W			ThinkVision® L1940p Wide 19" Monitor			4424HB6								
ThinkPad Advanced Mini Dock	250410U			ThinkVision L2240p Wide 22" Monitor			4422HB6								
ThinkPad Advanced Dock	250310U			ThinkVision L2440p Wide 24" Monitor			4420HB2								
Other accessories on O-R61-15W sheet	Other accessories at lenovo.com/accessories														

See footnotes for important warranty information
 US models announced February 19, 2008

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 (WKK2-1) February 2008

Partial list of accessories supported on:**• ThinkPad R61 15W originally announced on May 31, 2007****Memory**

512MB PC2-5300 DDR2 SODIMM	40Y7733	ann 01/05/06
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	ann 03/25/08
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann 01/05/06
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	ann 03/25/08
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann 11/28/06

Ultrabay Slim 9.5mm (supports both flat and curved bezel options)
 Serial Hard Drive Ultrabay Slim Adapter (flat)⁴⁸ 40Y8725 ann 09/20/05
 ThinkPad DVD Ultrabay Slim Burner (flat)⁴⁸ 41N5643 ann 05/31/07
⁴⁸ Slim 9.5mm device in 12.7mm bay shows gap above the device.

Ultrabay Enhanced 12.7mm (supports both flat and curved bezel)
 CD-RW/DVD Combo Ultrabay Enhanced (cur) 73P3275 ann 10/07/03

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann 03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann 10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann 01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann 01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann 08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann 01/20/09

⁴¹ Can be used as the main HDD or with *ThinkPad*

Serial ATA Hard Drive Ultrabay Slim Adapter 40Y8725

in the Ultrabay or in the *ThinkPad Advanced Dock 250310U*.

USB 2.0 Essential Memory Key 2GB	41U4944	ann 01/23/07
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 Security Memory Key 2GB	41U5119	ann 07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann 07/17/07
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 Portable Diskette Drive	05K9276	ann 06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann 01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann 09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07

ThinkPad Expansion

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann 02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann 09/20/05
ThinkPad Essential Port Replicator	250510W	ann 09/20/05
ThinkPad Advanced Mini Dock	250410U	ann 09/20/05
ThinkPad Advanced Dock	250310U	ann 09/20/05

Keyboard

TrackPoint Cap Collection	73P2698	ann 12/16/03
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04
USB Keyboard with UltraNav	31P8950	ann 01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann 04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann 05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann 08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann 06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann 11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann 01/22/08

Security

Kensington® Cable Lock from Lenovo	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
PC Card Gemplus Smart Card Reader	41N3004	ann 12/13/05
ExpressCard Gemplus Smart Card Reader	41N3043	ann 06/27/06

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann 06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06

Batteries

T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799	ann 01/05/06
T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797	ann 09/20/05
Advanced Ultrabay Battery II 3-cell ⁴³	43R9250	ann 04/22/08

⁴³ Used in Ultrabay Slim bay.

ThinkPad External Battery Charger⁴⁴ 40Y7625 ann 09/20/05

⁴⁴ Requires the *ThinkPad 90W AC Adapter*

40Y7659 (adapter provided with some systems).

ThinkPad 65W AC Adapter⁴⁵ 40Y7696 ann 01/05/06

⁴⁵ Only compatible with the 945GM and GM965 chipset models.

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

ThinkPad 90W Slim AC/DC Combo Adapter 41N8460 ann 11/27/07

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460

•Dual (ThinkPad+Phone) Charging Y-Cable	41R4345	ann 12/18/07
•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

Carrying Cases

Up to 15.4" widescreen models:

Lenovo Carrying Case - Messenger Max	41U5253	ann 05/01/07
Lenovo Carr Case - Performance BackPack	41U5254	ann 05/01/07
Lenovo Standard Case	45K1697	ann 11/25/08
Lenovo Standard Backpack	45K1698	ann 11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann 02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann 08/12/08
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Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann 09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann 09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann 04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann 09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann 09/17/08

Monitor Accessories⁴⁶

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann 01/05/06
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad® R61i 14W 7732 (GMA) - TopSeller (March 2008)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Screen type	Cam- era	Graphics controller	Disk SATA GB ⁸ rpm	EIDE optical	Mini PCIe 802.11 wireless	Card slot	Bat- tery 1394 port	Workhorse (W) Global (G) Educ	Avail date	
7732-2KU	T2370	1.73	1GB	14.1"	WXGA+		GMA	120G 5400	DVD±RW	Intel 11a/b/g	/54	1394 4	XP Pro	Mar 08	
7732-2LU	T2370	1.73	1GB	14.1"	WXGA		GMA	120G 5400	DVD±RW	Intel 11a/b/g	/54	1394 4	XP Pro	Mar 08	
7732-2MU	T5550	1.83	1GB	14.1"	WXGA		GMA	120G 5400	DVD±RW	*Intel 11a/b/g	/54	1394 4	XP Pro	Mar 08	
7732-B1U	T2390	1.86	1GB	14.1"	WXGA		GMA	160G 5400	DVD±RW	Intel 11a/b/g	/54	1394 4	Business 32	Apr 08	
7732-B2U	T2390	1.86	1GB	14.1"	WXGA	Glossy	Cam	GMA	160G 5400	DVD±RW	/54	1394 4	Business 32	Apr 08	
7732-B3U	T2390	1.86	1GB	14.1"	WXGA	Glossy	Cam	GMA	160G 5400	DVD±RW	/54	1394 4	Home Prem	Apr 08	
7732-B4U	T5750	2.00	1GB	14.1"	WXGA		GMA	160G 5400	DVD±RW	*Intel 11a/b/g	/54	1394 4	Business 32	Apr 08	
7732-B5U	T5750	2.00	1GB	14.1"	WXGA+		Cam	GMA	160G 5400	DVD±RW	*Intel 11a/b/g	/54	1394 4	Business 32	Apr 08
7732-01U	T8100	2.10	1GB	14.1"	WXGA		GMA	120G 5400	DVD±RW	*Intel 11a/b/g	4-in-1	1394 6	Business 32	Educ May 08	
7732-D1U	T2390	1.86	2GB	14.1"	WXGA		GMA	160G 5400	DVD±RW	Intel 11n ²⁸	/54	1394 4	XP Pro	Aug 08	

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

Processor	<p>Intel® Pentium® Dual-Core Processor T2370 or T2390 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology¹, Execute Disable Bit, 533MHz system bus, and 1MB shared L2 cache or</p> <p>Intel Core™ 2 Duo processor T5550 or T5750 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep technology¹, Execute Disable Bit, 667MHz system bus, and 2MB shared L2 cache</p> <p>Intel Core 2 Duo processor T8100 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology¹, Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 3MB shared L2 cache</p>	<p>Preloaded operating system²⁰</p> <ul style="list-style-type: none"> - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) - Some: Microsoft Windows Vista® Home Premium Ed (32-bit) <p>◇ D1U/Vista models: Vista Basic logo</p>
Memory	<p>1GB or 2GB std / 4GB max⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets;</p> <p><i>Italics:</i> standard memory in both sockets; no sockets available;</p> <p><i>Non-italics:</i> standard memory in 1 socket; 1 socket available</p>	<p>Preloaded applications¹⁴ (all OSes; only some listed)</p> <ul style="list-style-type: none"> • Some: Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Lenovo CareSM for Think • Rescue and RecoveryTM • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Multimedia Center for Think Offerings (XP Pro models) • Microsoft Office OneNote® 2007 and CD (01U model) • Microsoft Office 2007 Trial (60-day) • Network MagicTM • Corel® Small Business CenterTM with WordPerfect® Office 12 • QuickBooks Financial Center • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel WinDVD® (DVD±RW) • Corel WinDVD Creator (XP Pro DVD±RW models)
Diskette drive	None (use optional USB-based diskette drive)	
EIDE DVD±RW	DVD burner, Super Multi-Burner (40Y8624) dual-layer, removable Ultrabay™ Enhanced	
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high	
Serial ATA disk	<p>120GB⁸ (5400 rpm) or 160GB (5400 rpm) /</p> <p>1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection SystemTM</p>	
Widescreen display	<p>Some: 14.1" (358.1mm) WXGA (1280x800) TFT color, anti-glare, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio</p> <p>Some: 14.1" (358.1mm) WXGA (1280x800) TFT color, VibrantView (glossy), 185 nits, 16:10 aspect ratio, 300:1 contrast ratio</p> <p>Some: 14.1" (358.1mm) WXGA+ (1440x900) TFT color, anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio</p>	
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0	
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock	
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys	
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones	
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³	4-cell 14.1W" (WxDxH): 13.2" x 9.3" x 1.2-1.37"; 335mm x 237mm x 30.6-34.9mm	
Weight ²	4-cell: starting at 5.2 lb (2.4kg)	
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic	
Battery - type	Lithium Ion 4-cell or 6-cell , supports unique 2nd battery in Ultrabay Slim	
Battery - life ¹⁰	4-cell: up to 3.6 hr; <i>optional 6-cell:</i> up to 5.7 hr; 6-cell plus Ultrabay battery: up to 7.2 hr	
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)	Supports ThinkVantage® technologies
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit	
ExpressCard slot	Some: [/54] One ExpressCard/34 or ExpressCard/54	
Smart Card Read	None	
Multicard Reader	Some: 4-in-1 reader (MultiMediaCard, Mem Stick® PRO, Sec Digital, xD-Picture Card™)	
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	<p>65-watt (GMA graphics) AC adapter</p> <p>ThinkPad Roll Cage and Top Cover</p> <p>Roll Cage (one-piece magnesium)</p> <p>ENERGY STAR® 4.0-compliant</p> <p>RoHS-compliant</p> <p>International Warranty Service¹⁷</p> <p>24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios	ThinkPlus™.22 1-year LOR ²⁴ 9x5 NBD
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable	45K5968
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG	ThinkPlus 2-year LOR 9x5 NBD
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)	45K5969
WWAN	None	ThinkPlus 3-year LOR 9x5 NBD
Turbo Memory	None	45K5970
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket	ThinkPlus 4-year LOR 9x5 NBD
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator	45K5973
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE	ThinkPlus 5-year LOR 9x5 NBD
Intel AMT	None	45K5975
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack	ThinkPlus 2-year P&L P/U Depot
Security	Power-on password, hard disk password, supervisor password, security keyhole	45K5971
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant	ThinkPlus 3-year P&L P/U Depot
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip	45K5972
Limited warranty ¹²	1-year - EasyServ™.19 depot repair service / service upgrades ²² available	ThinkPlus 4-year P&L P/U Depot
		45K5974
		ThinkPlus 5-year P&L P/U Depot
		45K5976

See footnotes for important warranty information *Intel Centrino® processor technology
 7 US model announced August 5, 2008; previous models on March 4, April 8, or May 12, 2008

ThinkPad® R61i 15W 7650 (GMA) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Graphics controller	Disk SATA GB ⁵ rpm	EIDE optical	Mini PCIe 802.11 wireless	Finger print reader	Blue-tooth	Battery cells	Preload	Workhorse (W) Global (G) Educ	Avail date
7650-8CU	T5250	1.50	512MB	15.4" WXGA	GMA	80GB 5400	Combo	* Intel 11a/b/g ³²	None	None	6	XP Pro		July 07
7650-8DU	T5250	1.50	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	* Intel 11a/b/g	None	None	6	XP Pro		July 07
7650-9LU	T2330	1.60	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	Intel 11a/b/g	None	None	6	XP Pro		Oct 07
7650-9MU	T2330	1.60	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	Intel 11a/b/g	None	None	6	Business 32		Oct 07
7650-CDU	T5450	1.66	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	* Intel 11a/b/g	None	None	6	XP Pro		Jan 08
7650-DHU	T2370	1.73	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	Intel 11a/b/g	None	None	6	XP Pro		Feb 08
7650-DGU	T5550	1.83	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	* Intel 11a/b/g	None	None	6	XP Pro		Feb 08
7650-DRU	T2390	1.86	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	Intel 11a/b/g	None	None	6	Business 32		Apr 08
7650-02U	T2390	1.86	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	Intel 11a/b/g	None	None	6	Business 32	Educ	May 08
7650-ELU	T2390	1.86	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	Intel 11n ²⁸	None	None	6	XP Pro		July 08
7650-DSU	T5750	2.00	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	* Intel 11a/b/g	None	None	6	Business 32		Apr 08
7650-01U	T5750	2.00	2GB	15.4" WXGA	GMA	160G 7200	DVD±RW	* Intel 11a/b/g	None	None	6	Business 32		May 08
7650-F6U	T5750	2.00	1GB	15.4" WXGA	GMA	80GB 5400	DVD±RW	* Intel 11n	None	None	6	XP Pro		July 08

• These small and medium business (SMB) models are part of the US TopSeller™ Program
 • These models have a 1-year limited warranty¹²

Processor	Intel® Pentium® Dual-Core Processor T2330, T2370, or T2390 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Execute Disable Bit, 533MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo processor T5250, T5450, T5550, or T5750 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep technology, Execute Disable Bit, 667MHz system bus, and 2MB shared L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ♦ Vista 1GB models: Vista Basic logo ♦ 01U model: Vista Premium logo Preloaded applications¹⁴ (all OSes; only some listed) • Some: Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Lenovo Care SM for Think (9MU and 2008 models) • Microsoft Office OneNote® 2007 and CD (02U model) • Network Magic™ (9MU and 2008 models) • Corel® Small Business Center™ with WordPerfect® Office 12 (9MU and 2008 models) • QuickBooks Financial Center (9MU and 2008 models) • Corel WinDVD® (DVD±RW) • Corel WinDVD Creator (XP Pro DVD±RW model)	
Memory	512MB or 1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available		
Diskette drive	None (use optional USB-based diskette drive)		
EIDE Combo	Some: DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ , fixed, not removable, 12.7mm high		
EIDE DVD±RW	Some: DVD burner, Super Multi-Burner, dual-layer, not removable, 12.7mm high		
Ultrabay Enhanced	None (no support for removable Ultrabay™ options)		
Serial ATA disk	80GB ⁸ (5400 rpm) or 160GB (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™		
Widescreen display	15.4" (391mm) WXGA (1280x800) color, anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio		
Camera	None		
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965, no DVI pass-through (no port replicator or docking station support)		
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys		
TrackPoint™	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ (no touch pad)		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions		
Dimensions ³	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.39–1.52"; 358.5 x 260.0mm x 35.3–38.5mm		
Weight ²	6-cell: starting at 6.4 lb (2.9kg); 9-cell: starting at 6.7 lb (3.1kg)		
Case material	Black color, Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
Battery - type	Lithium Ion 6-cell		
Battery - life ¹⁰	Not published		
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], / PCI bus (Ricoh® R5C804 Cardbus) /		
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit		
ExpressCard slot	None		
Smart Card Read	None		
Multicard Reader	None		
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet)		
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios		
Mini PCI Express	One Mini PCI Express slot / not customer upgradable		
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG		
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)		
WWAN	None		
Modem	56K V.92 ⁶ modem, on systemboard, Conexant® CX20548		
Bluetooth™	None		
Ethernet	Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE		
Intel AMT	None		
Audio support	High Definition (HD) Audio, CX20549 codec / stereo speakers, 1 watt / volume up, down, mute buttons / microphone input jack, headphone jack		
Security	Power-on password, hard disk password, supervisor password, security keyhole		
Security chip	None		
Fingerprint reader	None		
Limited warranty ¹² 1-year - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available			
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	90W Slim AC/DC Combo Adapter	41N8460
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad Business Topload Case	43R2476
USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ThinkVision® L2440p Wide 24" Monitor	4420HB2
Other accessories on O-R61E sheet		Other accessories at lenovo.com/accessories	

See footnotes for important warranty information

* Intel Centrino® processor technology

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US models announced July 1, 2008; previous models on July 10, Oct 2, 2007, Jan 8, Feb 26, April 8, or May 5, 2008

(B-KON11-1) July 2008

US models withdrawn effective December 2007

ThinkPad® R61i 15W 8932 (GMA) - TopSeller (January 2008)

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Camera	Graphics controller	Disk SATA GB ⁸ rpm	EIDE optical	Mini PCIe 802.11 wireless	Card slot	Blue-tooth	Battery cells	Preload	Workhorse (W) Global (G)	Avail date
8932-DZU	T5450	1.66	1GB	15.4" WXGA			GMA	120G 5400	DVD±RW	* Intel 11a/b/g ³²	/54		6	XP Pro	No	Jan 08
8932-E2U	T5450	1.66	1GB	15.4" WXGA	Glossy	Cam	GMA	160G 5400	DVD±RW	* Intel 11a/b/g	/54	Blue	6	XP Pro	No	Jan 08
8932-E9U	T2370	1.73	1GB	15.4" WXGA		Cam	GMA	120G 5400	DVD±RW	* Intel 11a/b/g	/54	Blue	6	XP Pro	No	Jan 08
8932-EAU	T5450	1.66	1GB	15.4" WXGA		Cam	GMA	160G 5400	DVD±RW	* Intel 11a/b/g	/54	Blue	6	Business32	No	Jan 08
8932-FWU	T2370	1.73	1GB	15.4" WXGA			GMA	120G 5400	DVD±RW	* Intel 11a/b/g	/54		6	XP Pro	No	Mar 08
8932-FXU	T5550	1.83	1GB	15.4" WXGA			GMA	120G 5400	DVD±RW	* Intel 11a/b/g	/54		6	XP Pro	No	Mar 08
8932-G8U	T2390	1.86	1GB	15.4" WXGA			GMA	160G 5400	DVD±RW	Intel 11a/b/g	/54		6	Business32	No	Apr 08
8932-G9U	T2390	1.86	1GB	15.4" WXGA	Glossy	Cam	GMA	160G 5400	DVD±RW	Intel 11a/b/g	/54	Blue	6	Business32	No	Apr 08
8932-GBU	T2390	1.86	1GB	15.4" WXGA	Glossy	Cam	GMA	160G 5400	DVD±RW	Intel 11a/b/g	/54	Blue	6	Home Prem	No	Apr 08
8932-GZU	T2390	1.86	2GB	15.4" WXGA			GMA	160G 5400	DVD±RW	Intel 11n ²⁸	/54		6	XP Pro	No	July 08
8932-GCU	T5750	2.00	1GB	15.4" WXGA			GMA	160G 5400	DVD±RW	* Intel 11a/b/g	/54		6	Business32	No	Apr 08
8932-GDU	T5750	2.00	1GB	15.4" WXGA		Cam	GMA	160G 5400	DVD±RW	* Intel 11a/b/g	/54	Blue	6	Business32	No	Apr 08
8932-H2U	T5750	2.00	2GB	15.4" WXGA			GMA	160G 5400	DVD±RW	* Intel 11n	/54		6	XP Pro	No	July 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty²

Processor	Intel® Pentium® Dual-Core Processor T2370 or T2390 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Execute Disable Bit, 533MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo processor T5450, T5550, or T5750 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep technology ¹ , Execute Disable Bit, 667MHz system bus, and 2MB shared L2 cache	Preloaded operating system ²⁰
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available	- Some: Microsoft Windows Vista Business Edition (32-bit) - Some: Microsoft Windows Vista Home Premium Ed (32-bit) ◇ Vista models: Vista Basic logo
Diskette drive	None (use optional USB-based diskette drive)	Preloaded applications ¹⁴ (all OSes; only some listed)
EIDE DVD±RW	DVD burner, Super Multi-Burner (40Y8624) dual-layer, removable Ultrabay™ Enhanced	• Lenovo Care SM for Think
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high	• Rescue and Recovery™
Serial ATA disk	120GB ⁸ (5400 rpm) or 160GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™	• Access Connections™
Widescreen display	Some: 15.4" (391mm) WXGA (1280x800) TFT color, anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 15.4" (391mm) WXGA (1280x800) TFT color, VibrantView (glossy), 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	• Client Security Solution™
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0	• ThinkVantage System Update
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965, no DVI pass-through support to optional Advanced Mini Dock or Advanced Dock	• System Migration Assistant
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Apl keys	• Norton Internet Security (90 days of virus definitions)
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	• PC-Doctor™ (diagnostics)
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones	• ThinkPad Utilities (Power Manager and Presentation Director)
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	• Multimedia Center for Think Offerings (XP Pro models)
Dimensions ³	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.39–1.52"; 358.5 x 260.0mm x 35.3–38.5mm	• Microsoft Office 2007 Trial (60-day)
Weight ²	6-cell: starting at 6.4 lb (2.9kg); 9-cell: starting at 6.7 lb (3.1kg)	• Corel® Small Business Center™ with WordPerfect® Office 12
Case material	Black color, Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	• Sonic RecordNow and Drive Letter Access (DVD±RW)
Battery - type	Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Enhanced	• Corel WinDVD® (DVD±RW)
Battery - life ¹⁰	6-cell: up to 5.0 hr; 9-cell: up to 7.0 hr; 6-cell plus Ultrabay battery: up to 8.5 hr	• Corel WinDVD Creator (XP Pro DVD±RW models)
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)	Supports ThinkVantage® technologies
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit	65-watt (GMA graphics)
ExpressCard slot	[/54] One ExpressCard/34 or ExpressCard/54	ThinkPad Roll Cage (one-piece magnesium frame)
Smart Card Reader	None	ENERGY STAR® 4.0-compliant
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)	RoHS-compliant
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard), S-Video out	International Warranty Service ¹⁷
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
Mini PCI Express	One Mini PCI Express slot / 802.11 wireless is customer upgradable	ThinkPlus™.22 1-year LOR ²⁴ 9x5 NBD 45K5968
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG	ThinkPlus 2-year LOR 9x5 NBD 45K5969
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)	ThinkPlus 3-year LOR 9x5 NBD 45K5970
WWAN	None	ThinkPlus 4-year LOR 9x5 NBD 45K5973
Turbo Memory	None	ThinkPlus 5-year LOR 9x5 NBD 45K5975
Modem	56K V.92 ⁶ modem, on systemboard, Conexant® CX20548	ThinkPlus 2-year P&L P/U Depot 45K5971
Bluetooth™	Some: Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator	ThinkPlus 3-year P&L P/U Depot 45K5972
Ethernet	Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE	ThinkPlus 4-year P&L P/U Depot 45K5974
Intel AMT	None	ThinkPlus 5-year P&L P/U Depot 45K5976
Audio support	High Definition (HD) Audio, CX20549 codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant	
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supported with security chip	
Limited warranty ¹²	1-year - EasyServ™.19 depot repair service / service upgrades ²² available	

See footnotes for important warranty information * Intel Centrino® processor technology
 8932 US models announced July 1, 2008; previous models on January 8 March 11, or April 8, 2008



Lenovo ThinkPad R400



ThinkLight on
Lenovo ThinkPad R400



Lenovo ThinkPad R400



ThinkPad Business Backpack
part number 43R2482



Lenovo ThinkPad R400



Lenovo ThinkPad R400

ThinkPad® R400 7438 (TopSeller)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Blue- tooth	Bat- tery cells	Preload	Avail date
7438-T6U	P8400	2.26	2GB	14.1" WXGA		GMA	160G 5400	DVD±RW	Intel 5100 ²⁸	None	None	Finger	Blue	6	XP Pro	Aug 08
7438-T7U	T9400	2.53	2GB	14.1" WXGA	Cam	GMA	160G 7200	DVD±RW	Intel 5100	None	None	Finger	Blue	6	XP Pro	Aug 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty

Positioning	<i>Mainstream business performance; two spindles</i>											Preloaded operating system²⁰			
Processor	Intel® Core™ 2 Duo processor P8400 or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400: 3MB L2 cache; T9400: 6MB L2 cache											- Microsoft® Windows® XP Professional with Vista® COA ◇ Vista Premium logo			
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available											Preloaded applications¹⁴			
SATA DVD±RW	DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149)											• Rescue and Recovery™			
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high											• Access Connections™			
SATA disk	160GB ⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											• Client Security Solution™			
Widescreen display	14.1" (358.1mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio											• ThinkVantage Productivity Center			
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus											• ThinkVantage System Update			
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock <i>Maximum external resolution:</i> 2048x1536@75Hz											• McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions)			
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys											• PC-Doctor™ (diagnostics)			
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass											• ThinkPad Utilities (Power Manager and Presentation Director)			
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label											• Adobe® Reader			
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions											• Windows Live™ Toolbar			
Dimensions ³	6-cell 14.1W" (WxDxH): 13.2" x 9.4" x 1.2-1.4"; 335.5 x 238mm x 31-35mm											• Windows Live Search			
Weight ²	6-cell: starting at 5.1 lb (2.3kg)											• Fingerprint Software (fingerprint models)			
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic											• Microsoft Office 2007 Trial (60-day)			
Battery - type	Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Enhanced											• Roxio® Creator® Business Edition			
Battery - life ¹⁰	6-cell: up to 5 hr; 6-cell plus Ultrabay battery: up to 6.5 hr; 9-cell: up to 7.5 hr											• Roxio MyDVD® (DVD±RW)			
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)														
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)														
PC Card	One slot (Type I, Type II), CardBus 32-bit														
Smart Card Read	None														
Multicard Reader	None														
Ports	Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Mini PCI Express	Three Mini PCI Express slots											Supports ThinkVantage® technologies			
Intel 5100 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)														
WWAN	Not supported											65-watt (GMA graphics) AC adapter			
2G Turbo	None											ThinkPad Roll Cage and Top Cover			
UWB	Not supported											Roll Cage (one-piece magnesium)			
Modem	56K V.92 ⁶ modem											EPEAT™ Silver rating			
Bluetooth™	<i>Some:</i> Bluetooth 2.0 wireless, LED indicator											ENERGY STAR® 4.0-compliant			
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1											RoHS-compliant			
Intel AMT	None											International Warranty Service ¹⁷			
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack											24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant														
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip											ThinkPlus™ ²² 2-year LOR ²⁴ 9x5 NBD			
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available											41C9175			
1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	T/R 14W Standard Battery 4-cell	41U3196	ThinkPlus 3-year LOR 9x5 NBD											
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	T/R 14W Enhanced Battery 6-cell	41U3198	45K6021											
Blu-ray™ Burner Ultrabay Enhanced	43R9150	T/R 14W High Capacity Battery 9-cell	43R2499	ThinkPlus 4-year LOR 9x5 NBD											
Serial ATA Hard Drive Bay Adapter II	43R1980	Advanced Ultrabay Battery II 3-cell	43R9250	45K6022											
64GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3400	90W Slim AC/DC Combo Adapter	41N8460	ThinkPlus 5-year LOR 9x5 NBD											
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad Business Topload Case	43R2476	45K6024											
USB 2.0 Security Memory Key 4GB	41U5120	ThinkPad Business Backpack	43R2482	ThinkPlus 4-year P&L P/U Depot											
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	T400/R400 Series 14W Privacy Filter	43R2472	45K6023											
USB 2.0 Super Multi-Burner Drive	41N5565	ThinkVision® L1940p Wide 19" Monitor	4424HB6	ThinkPlus 5-year P&L P/U Depot											
ThinkPad Adjustable Notebook Stand	40Y7676	ThinkVision L2240p Wide 22" Monitor	4422HB6	45K6025											
ThinkPad Advanced Dock	250310U	ThinkVision L2440x Wide 24" Monitor	4421HB2	Post-warranty annual maintenance agreements at											
Other accessories on O-R400 sheet		Other accessories at lenovo.com/accessories		lenovo.com/thinkplus/warranty											

See footnotes for important warranty information
US models announced August 5, 2008

◆ Intel Centrino® 2 processor technology

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Type-model	Processor GHz	Memory	Wide-screen display	Camera	Integrated graphics	Disk SATA GB ³ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger Card print reader	Blue-tooth	Battery cells	Whorse (W) Gbl (G) Avail date
7439-1WU	Cel 575	2.00 2GB	14.1" WXGA		GMA 160G 5400 DVD±RW	Intel 5100 ²⁸	None	None	None	PC	Fing	Blue	6 Bus 32	Sep 08
7439-11U	P8400	2.26 1GB	14.1" WXGA		GMA 80G 5400 Combo	Intel 5100	None	None	None	PC	Fing	Blue	6 Bus 32	G Aug 08
7439-12U	T9400	2.53 1GB	14.1" WXGA		GMA 160G 5400 Combo	Intel 5100	None	None	None	PC	Fing	Blue	6 Bus 32	WG Aug 08
7439-V1U	T9400	2.53 2GB	14.1" WXGA	Cam	GMA 160G 7200 DVD±RW	Intel 5100	None	2G Turbo	7-in-1	Fing	Blue	6 Bus 32	WG Aug 08	
7439-V2U	P8400	2.26 1GB	14.1" WXGA	Cam	GMA 160G 5400 Combo	Intel 5100	None	None	7-in-1	Fing	Blue	6 Bus 32	WG Aug 08	
7439-V5U	T9400	2.53 1GB	14.1" WXGA	Cam	GMA 160G 5400 DVD±RW	Intel 5100	None	None	7-in-1	Fing	Blue	6 Bus 32	WG Aug 08	
7439-1BU	P8600	2.40 2GB	14.1" WXGA+		GMA 160G 5400 DVD±RW	Intel 5100	None	2G Turbo	7-in-1	Fing	Blue	6 Bus 32	WG Aug 08	
7439-1CU	T9400	2.53 2GB	14.1" WXGA		GMA 160G 5400 DVD±RW	Intel 5300 ²⁸	None	2G Turbo	7-in-1	Fing	Blue	6 Bus 32	WG Aug 08	
7439-1TU	P8600	2.40 1GB	14.1" WXGA		GMA 160G 5400 DVD±RW	Intel 5100	None	None	Smart			6 Bus 32	TAA Aug 08	
7439-PAU	P8600	2.40 2GB	14.1" WXGA		GMA 160G 5400 Combo	Intel 5100	None	None	PC	Fing	Blue	6 XP Pro	G Sep 08	
7439-PCU	P8600	2.40 2GB	14.1" WXGA+		GMA 160G 5400 DVD±RW	Intel 5100	None	2G Turbo	7-in-1	Fing	Blue	6 XP Pro	G Sep 08	
7439-T1U	P8600	2.40 2GB	14.1" WXGA		GMA 160G 5400 Combo	Intel 5100	None	None	PC	Fing	Blue	6 XP Pro	G Sep 08	
7439-V3U	T9400	2.53 2GB	14.1" WXGA	Cam	GMA 160G 7200 DVD±RW	Intel 5100	None	UWB	7-in-1	Fing	Blue	9 Bus 32	W Oct 08	
7439-T2U	P8600	2.40 1GB	14.1" WXGA		GMA 160G 5400 DVD±RW	Intel 5100	None	None	Smart			6 Bus 32	TAA Oct 08	
7439-PDU	P8600	2.40 2GB	14.1" WXGA		GMA 160G 5400 DVD±RW	Intel 5100	None	None	PC	Fing	Blue	6 Bus 32	WG Dec 08	

US Govt (TAA) ⁵ Processor	1TU/2TU: US Government model (Trade Act Agreement-compliant) Intel® Celeron® Processor 575 with single-core, 667MHz system bus, and 1MB L2 cache Intel Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400/P8600: 3MB L2 cache; T9400: 6MB L2 cache										Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ Vista Premium logo			
Memory	1GB or 2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models)			
SATA Combo SATA DVD±RW Ultrapay Enhanced SATA disk	Some: DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm Ultrapay Enh, removable (43R9148) Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrapay Enhanced, removable (43R9149) One bay for removable devices, Ultrapay Slim-compatible, 12.7mm high 80GB⁸ (5400 rpm) or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™										• Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)			
Widescreen display	Some: 14.1" (358.1mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio													
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus													
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock <i>Maximum external resolution:</i> 2048x1536@75Hz (VGA DB-15)													
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 14.1W" (WxDxH): 13.2" x 9.4" x 1.2-1.4"; 335.5 x 238mm x 31-35mm 6-cell: starting at 5.1 lb (2.3kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrapay Enhanced 6-cell: up to 5 hr; 6-cell plus Ultrapay battery: up to 6.5 hr; 9-cell: up to 7.5 hr													
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)										Supports ThinkVantage® technologies			
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) Some: One slot (Type I, Type II), CardBus 32-bit Some: Smart Card reader Some: 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)										65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
Mini PCI Express Intel 5100 ²⁸ Intel 5300 ²⁸ WWAN 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) None Some: Intel Turbo Memory, Mini PCIe adapter, 2GB flash, disk-cache accelerator Wireless USB based on Ultra-Wideband (UWB), Half-Mini PCIe adapter 56K V.92 ⁶ modem Some: Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 None High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip										ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025			
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
320GB Disk SATA 1.5Gb/s (7200 rpm) Other accessories on O-R400 sheet	43N3411		T/R 14W High Capacity Battery 9-cell		43R2499		Other accessories at lenovo.com/accessories							

See footnotes for important warranty information

† Intel Centrino® 2 processor technology

Ⓜ US models announced December 2, 2008; previous models on Aug 5, Sep 2, Sep 30, or October 7, 2008

Proc- Type-model	essor GHz	Memory	Wide- screen display	Cam-Integrated era graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Card slot	Blue/ Fing	Bat- tery cells	Whorse (W) Gbl (G) Avail Preload GMP (P) date
7440-11U	P8400	2.26 1GB 14.1" WXGA		GMA 80G	5400 Combo	⇄ Intel 5100 ²⁸	None			PC	Yes	6 Bus 32	G P Aug 08
7440-12U	T9400	2.53 1GB 14.1" WXGA		GMA 160G	5400 Combo	⇄ Intel 5100	None			PC	Yes	6 Bus 32	W G P Aug 08
7440-V1U	T9400	2.53 2GB 14.1" WXGA	Cam	GMA 160G	7200 DVD±RW	⇄ Intel 5100	None	2G Turbo		7-in-1	Yes	6 Bus 32	W G P Aug 08
7440-V5U	T9400	2.53 1GB 14.1" WXGA	Cam	GMA 160G	5400 DVD±RW	⇄ Intel 5100	None			7-in-1	Yes	6 Bus 32	W G P Aug 08
7440-T1U	P8600	2.40 2GB 14.1" WXGA		GMA 160G	5400 Combo	⇄ Intel 5100	None			PC	Yes	6 XP Pro	G P Sep 08
7440-PDUP	P8600	2.40 2GB 14.1" WXGA		GMA 160G	5400 DVD±RW	⇄ Intel 5100	None			PC	Yes	6 Bus 32	W G P Dec 08

• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400/P8600: 3MB L2 cache; T9400: 6MB L2 cache		Preloaded operating system ²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ Vista Premium logo	
Memory	1GB or 2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available		Preloaded applications ¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)	
SATA Combo SATA DVD±RW Ultrabay Enhanced SATA disk	Some: DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm Ultrabay Enh, removable (43R9148) Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high 80GB⁹ (5400 rpm) 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™			
Widescreen display Camera	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 185 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, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock <i>Maximum external resolution:</i> 2048x1536@75Hz			
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions			
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 14.1W" (WxDxH): 13.2" x 9.4" x 1.2–1.4"; 335.5 x 238mm x 31–35mm 6-cell: starting at 5.1 lb (2.3kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Enhanced 6-cell: up to 5 hr; 6-cell plus Ultrabay battery: up to 6.5 hr; 9-cell: up to 7.5 hr			
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub) / ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O) One slot (ExpressCard/34, ExpressCard/54) Some: One slot (Type I, Type II), CardBus 32-bit			
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	Some: 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)			
Mini PCI Express Intel 5100 ²⁸ WWAN 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None Some: Intel Turbo Memory, Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 None High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip		Supports ThinkVantage® technologies	
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available		65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378	
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Blu-ray™ Burner Ultrabay Enhanced SATA Serial ATA Hard Drive Bay Adapter II SATA 64GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Essential Memory Key 32GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive ThinkPad Adjustable Notebook Stand ThinkPad Advanced Dock Other accessories on O-R400 sheet	43R1987 43R1988 43R9150 43R1980 43N3400 43N3411 45K1258 45J5918 41N5565 40Y7676 250310U	T/R 14W Standard Battery 4-cell T/R 14W Enhanced Battery 6-cell T/R 14W High Capacity Battery 9-cell Advanced Ultrabay Battery II 3-cell 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack T400/R400 Series 14W Privacy Filter ThinkVision® L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440p Wide 24" Monitor Other accessories at lenovo.com/accessories	41U3196 41U3198 43R2499 43R9250 41N8460 43R2476 43R2482 43R2472 4424HB6 4422HB6 4420HB2	ThinkPlus™. ²² 4-year LOR 9x5 NBD 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information
 ☞ US model announced December 2, 2008; previous models on August 5 or September 2, 2008

ThinkPad® R400 7439 (Education) - EasyServ

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Cam-Integrated era graphics	SATA GB ⁸	Disk SATA rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Battery cells	Whorse (W) Gbl (G) Preload	Avail date	
7439-E1U	Cel 585	2.16	1GB	14.1" WXGA	Cam GMA	80G	5400 Combo		Intel 5100 ²⁸	None	2G Turbo	7-in-1	6	Bus 32 W	Sep 08	
7439-E2U	T9400	2.53	1GB	14.1" WXGA	Cam GMA	80G	5400 Combo		Intel 5100	None	2G Turbo	7-in-1	6	Bus 32 W	Aug 08	
7439-E3U	T9400	2.53	1GB	14.1" WXGA	Cam GMA	160G	5400 DVD±RW		Intel 5100	None	2G Turbo	7-in-1	Fing	6	Bus 32 W	Aug 08
7439-E4U	T9400	2.53	2GB	14.1" WXGA	Cam GMA	160G	7200 DVD±RW		Intel 5100	None	2G Turbo	7-in-1	Fing	9	Bus 32 W	Aug 08
7439-E5U	P8600	2.40	2GB	14.1" WXGA	Cam GMA	160G	5400 DVD±RW		Intel 5100	None	2G Turbo	7-in-1	6	Bus 32 W	Dec 08	

• **These models have an EasyServ™,19 depot repair service 3-year limited warranty**
 These educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Mainstream business performance; two spindles</i> Intel® Celeron® Processor 585 with single-core, 667MHz system bus, and 1MB L2 cache Intel Core™ 2 Duo processor P8600 or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8600: 3MB L2 cache; T9400: 6MB L2 cache	Preloaded operating system ²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ♦ Vista Premium logo Preloaded applications ¹⁴ • Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection – Photoshop Elements (and CD) – Premier Elements (and DVD) – Acrobat 8 Professional – Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)	
Memory	1GB or 2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available		
SATA Combo	<i>Some:</i> DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm Ultrabay Enh, removable (43R9148)		
SATA DVD±RW	<i>Some:</i> DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149)		
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high		
SATA disk	80GB⁸ (5400 rpm) or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™		
Widescreen display	<i>Some:</i> 14.1" (358.1mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio		
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus		
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock <i>Maximum external resolution:</i> 2048x1536@75Hz		
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys		
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass		
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions		
Dimensions ³	<i>6-cell 14.1W"</i> (WxDxH): 13.2" x 9.4" x 1.2–1.4"; 335.5 x 238mm x 31–35mm		
Weight ²	<i>6-cell:</i> starting at 5.1 lb (2.3kg)		
Case color	Black		
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic		
Battery - type	Lithium Ion 6-cell or 9-cell , supports unique 2nd battery in Ultrabay Enhanced		
Battery - life ¹⁰	<i>6-cell:</i> up to 5 hr; <i>6-cell plus Ultrabay battery:</i> up to 6.5 hr; <i>9-cell:</i> up to 7.5 hr		
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)		
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)		
PC Card	None		
Smart Card reader	None		
Multicard reader	7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H)		
Ports	Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)		
Mini PCI Express	Three Mini PCI Express slots		
Intel 5100 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)		
WWAN	None		
2G Turbo	<i>Some:</i> Intel Turbo Memory, Mini PCIe adapter, 2GB flash, disk-cache accelerator		
UWB	None		
Modem	56K V.92 ⁶ modem		
Bluetooth™	Bluetooth 2.0 wireless, LED indicator		
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1		
Intel AMT	None		
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack		
Security	Power-on password, hard disk password, supervisor password, security keyhole		
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant		
Fingerprint reader	<i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip		
Limited warranty ¹²	3-years/1-yr battery - EasyServ™,19 depot repair service / service upgrades²² available		
1GB PC3-8500 DDR3 SODIMM	43R1987	T/R 14W Enhanced Battery 6-cell	41U3198
2GB PC3-8500 DDR3 SODIMM	43R1988	T/R 14W High Capacity Battery 9-cell	43R2499
Serial ATA Hard Drive Bay Adapter II SATA	43R1980	Advanced Ultrabay Battery II 3-cell	43R9250
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	90W Slim AC/DC Combo Adapter	41N8460
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ThinkPad Business Topload Case	43R2476
USB 2.0 Super Multi-Burner Drive	41N5565	T400/R400 Series 14W Privacy Filter	43R2472
ThinkPad Advanced Dock	250310U	ThinkVision® L2440x Wide 24" Monitor	4421HB2
Other accessories on O-R400 sheet		Other accessories at lenovo.com/accessories	

See footnotes for important warranty information

♦ Intel Centrino® 2 processor technology

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Ⓜ US model announced December 2, 2008; previous models on August 5 or September 30, 2008

(LAG3-4) December 2008

ThinkPad® R400 7440 (Education) - Onsite

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Cam- era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Mini PCIe Card slot	Finger print reader	Bat- tery Blue- tooth	Whorse (W) Gbl (G) Preload	Avail date
7440-1NU	P8600	2.40 1GB	14.1" WXGA	None	GMA	80G 5400	Combo	Intel 5100	None	2G Turbo	7-in-1	None	Blue	6 Bus 32 W	Aug 08

• This model has a limited onsite service²⁴ 3-year limited warranty

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Mainstream business performance; two spindles</i> Intel® Core™ 2 Duo processor P8600 with dual-core, Intel HD Boost, 1066MHz system bus, and 3MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) - Vista Premium logo				
Memory	1GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ • Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)				
SATA Combo Ultrabay Enhanced SATA disk	DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm Ultrabay Enh, removable (43R9148) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high 80GB⁸ (5400 rpm) 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™														
Widescreen display Camera	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio None														
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock <i>Maximum external resolution:</i> 2048x1536@75Hz														
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	<i>6-cell 14.1W" (WxDxH):</i> 13.2" x 9.4" x 1.2-1.4"; 335.5 x 238mm x 31-35mm <i>6-cell:</i> starting at 5.1 lb (2.3kg) <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Enhanced <i>6-cell:</i> up to 5 hr; <i>6-cell plus Ultrabay battery:</i> up to 6.5 hr; <i>9-cell:</i> up to 7.5 hr														
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)														
ExpressCard slot PC Card Std slot Smart Card Read Multicard Reader Ports	One ExpressCard/34 or ExpressCard/54 None None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Mini PCI Express Intel 5100 ²⁸ WWAN 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None Intel Turbo Memory, Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 None High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant None														
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available										Supports ThinkVantage® technologies				
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM DVD Burner Ultrabay Enh SATA 1.5Gb/s Blu-ray™ Burner Ultrabay Enhanced SATA Serial ATA Hard Drive Bay Adapter II SATA 64GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Security Memory Key 4GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive ThinkPad Adjustable Notebook Stand ThinkPad Advanced Dock Laser Tilt Wheel Travel Mouse (Bluetooth) Other accessories on O-R400 sheet	43R1987 43R1988 43R9149 43R9150 43R1980 43N3400 43N3411 41U5120 45J5918 41N5565 40Y7676 250310U 41U5008										T/R 14W Standard Battery 4-cell 41U3196 T/R 14W Enhanced Battery 6-cell 41U3198 T/R 14W High Capacity Battery 9-cell 43R2499 Advanced Ultrabay Battery II 3-cell 43R9250 90W Slim AC/DC Combo Adapter 41N8460 ThinkPad Business Topload Case 43R2476 ThinkPad Business Backpack 43R2482 T400/R400 Series 14W Privacy Filter 43R2472 ThinkVision® L1700p 17" Monitor 9417HE2 ThinkVision L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440x Wide 24" Monitor 4421HB2 ThinkVision USB Soundbar (up to 22") 40Y7616 Other accessories at lenovo.com/accessories				
											65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378				
											ThinkPlus™.22 4-year LOR 9x5 NBD 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty				

See footnotes for important warranty information
US models announced August 5, 2008

• Intel Centrino® 2 processor technology

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(LAG3-5) August 2008

Partial list of accessories supported on:

• ThinkPad R400 originally announced on August 5, 2008

Memory

1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	ann	11/04/08
1GB PC3-8500 DDR3 SODIMM	43R1987	ann	08/05/08
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	ann	11/04/08
2GB PC3-8500 DDR3 SODIMM	43R1988	ann	08/05/08

Ultrabay Slim 9.5mm

Serial ATA Hard Drive Bay Adapter II SATA ⁴⁸	43R1980	ann	08/05/08
DVD-ROM Ultrabay Slim SATA 1.5Gb/s ⁴⁸	43N3212	ann	08/05/08
CD-RW/DVD-ROM Ultrabay Slim SATA ⁴⁸	43N3213	ann	08/05/08
DVD Burner Ultrabay Slim SATA 1.5Gb/s ⁴⁸	43N3214	ann	08/05/08
Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s ⁴⁸	43N3215	ann	08/05/08

⁴⁸ Slim 9.5mm device in 12.7mm bay shows gap above the device.

Ultrabay Enhanced 12.7mm

DVD-ROM Ultrabay Enhanced SATA 1.5Gb/s	43R9147	ann	08/05/08
CD-RW/DVD-ROM Ultrabay Enh SATA	43R9148	ann	08/05/08
DVD Burner Ultrabay Enh SATA 1.5Gb/s	43R9149	ann	08/05/08
Blu-ray™ Burner Ultrabay Enh SATA 1.5Gb/s	43R9150	ann	08/05/08

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann	03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann	10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann	01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann	01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann	08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann	01/20/09

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter 43R1980 in the Ultrabay or (in the ThinkPad Advanced Dock 250310U with Serial Hard Drive Ultrabay Slim Adapter 40Y8725)

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ann	08/26/08
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 Security Memory Key 4GB	41U5120	ann	07/17/07
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 Portable Diskette Drive	05K9276	ann	06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann	01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann	09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann	01/23/07

ThinkPad Expansion

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann	02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann	09/20/05
ThinkPad Essential Port Replicator	250510W	ann	09/20/05
ThinkPad Advanced Mini Dock	250410U	ann	09/20/05
ThinkPad Advanced Dock	250310U	ann	09/20/05

Keyboard

TrackPoint Cap Collection	73P2698	ann	12/16/03
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04
USB Keyboard with UltraNav	31P8950	ann	01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann	04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann	05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann	08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann	06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann	11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann	11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann	01/22/08

Security

Kensington® Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
T400/R400 Series 14W Privacy Filter	43R2472	ann	08/05/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann	02/21/06
PC Card Gemplus Smart Card Reader	41N3004	ann	12/13/05
ExpressCard Gemplus Smart Card Reader	41N3043	ann	06/27/06

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann	06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann	08/29/06

Batteries

T/R 14W Standard Battery 4-cell	41U3196	ann	05/09/07
T/R 14W Enhanced Battery 6-cell	41U3198	ann	05/09/07
T/R 14W High Capacity Battery 9-cell	43R2499	ann	03/04/08
Advanced Ultrabay Battery II 3-cell ⁴³	43R9250	ann	04/22/08

⁴³ Used in Ultrabay Slim bay.

ThinkPad External Battery Charger⁴⁴ 40Y7625 ann 09/20/05

⁴⁴ Requires the ThinkPad 90W AC Adapter 40Y7659 (adapter provided with some systems).

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter⁴⁵ 40Y7696 ann 01/05/06

⁴⁵ Only compatible with the GM45 chipset models.

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

ThinkPad 90W Slim AC/DC Combo Adapter 41N8460 ann 11/27/07

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

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460

•Dual (ThinkPad+Phone) Charging Y-Cable 41R4345 ann 12/18/07

•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

More information at www.lenovopowertips.com

Carrying Cases

Up to 14.1" widescreen models:

ThinkPad Expander Case	43R9118	ann	06/24/08
ThinkPad Women's Microfiber Tote	22P8855		
ThinkPad Women's Leather Trim Tote	22P8856		
ThinkPad Convertible Carrying Case	22P8860		
ThinkPad Women's Executive Leather Tote	22P8857		
Women's Executive Red Leather Tote	22P8858		

Up to 15.4" widescreen models:

Lenovo Carrying Case - Messenger Max	41U5253	ann	05/01/07
Lenovo Carr Case - Performance Backpack	41U5254	ann	05/01/07
Lenovo Standard Case	45K1697	ann	11/25/08
Lenovo Standard Backpack	45K1698	ann	11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann	02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann	08/12/08
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Lenovo luxury cases at www.lenovoluxurycases.com

Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann	04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann	09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann	11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann	09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann	04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann	09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann	09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann	09/17/08

Monitor Accessories⁴⁶

ThinkVision USB Soundbar	40Y7616	ann	08/23/05
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann	01/05/06
Radial Arm	19K4464	ann	05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkPad R500



Lenovo ThinkPad R500



Lenovo ThinkPad R500



Lenovo ThinkPad R500

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe Turbo	Finger print reader	Blue-tooth	Battery cells	Workhorse (W) Global (G) Avail date
2717-5GU	P8400	2.26	2GB	15.4" WXGA		GMA	160G 5400	DVD±RW	Intel 5100 ²⁸	None	Finger		6	XP Pro No Aug 08
2717-5HU	T9400	2.53	2GB	15.4" WXGA	Cam	GMA	160G 7200	DVD±RW	Intel 5100	None	Finger	Blue	6	XP Pro No Aug 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ 2 Duo processor P8400 or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400: 3MB L2 cache; T9400: 6MB L2 cache											Preloaded operating system²⁰ - Microsoft® Windows® XP Professional with Vista® COA ♦ Vista Premium logo Preloaded applications¹⁴ <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available;											
SATA DVD±RW	DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149)											
Ultrabay Enhanced SATA disk	160GB ⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											
Widescreen display	15.4" (391mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio											
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus											
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); Maximum external resolution: 2048x1536@75Hz											
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys											
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass											
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label											
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions											
Dimensions ³	6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.4–1.5"; 358.6mm x 260mm x 36–39mm											
Weight ²	6-cell: starting at 6.4 lb (2.93kg)											
Case	Color: black; Material: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic											
Battery - type	Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Enhanced											
Battery - life ¹⁰	6-cell: up to 4.5 hr; 6-cell plus Ultrabay battery: up to 6.0 hr; 9-cell: up to 7.1 hr											
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)											
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)											
PC Card	One slot (Type I, Type II), CardBus 32-bit											
Smart Card Read	None											
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)											
Ports	Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)											
Mini PCI Express	Two Mini PCI Express slots											Supports ThinkVantage® technologies
Intel 5100 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)											65-watt (GMA graphics) AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
2G Turbo	None											
WWAN	Not supported											
UWB	Not supported											
Modem	56K V.92 ⁶ modem											
Bluetooth™	Some: Bluetooth 2.0 wireless, LED indicator											
Ethernet	Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE											
Intel AMT	None											
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack											
Security	Power-on password, hard disk password, supervisor password, security keyhole											
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant											
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip											
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available											ThinkPlus™ ²² 2-year LOR ²⁴ 9x5 NBD 41C9175
1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799	ThinkPlus 3-year LOR 9x5 NBD								
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797	45K6021								
Blu-ray Burner Ultrabay Enhanced	43R9150	Advanced Ultrabay Battery II 3-cell	43R9250	ThinkPlus 4-year LOR 9x5 NBD								
Serial ATA Hard Drive Bay Adapter II	43R1980	90W Slim AC/DC Combo Adapter	41N8460	45K6022								
64GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3400	ThinkPad Business Topload Case	43R2476	ThinkPlus 5-year LOR 9x5 NBD								
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad Business Backpack	43R2482	45K6024								
USB 2.0 Security Memory Key 4GB	41U5120	ThinkPad Deluxe Expander Case	43R2478	ThinkPlus 4-year P&L P/U Depot								
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	T500/R500/W500 15W Privacy Filter	43R2474	45K6023								
USB 2.0 Super Multi-Burner Drive	41N5565	ThinkVision® L1940p Wide 19" Monitor	4424HB6	ThinkPlus 5-year P&L P/U Depot								
ThinkPad Adjustable Notebook Stand	40Y7676	ThinkVision L2240p Wide 22" Monitor	4422HB6	45K6025								
ThinkPad Advanced Dock	250310U	ThinkVision L2440p Wide 24" Monitor	4420HB2	Post-warranty annual maintenance agreements at								
Other accessories on O-R500 sheet		Other accessories at lenovo.com/accessories		lenovo.com/thinkplus/warranty								

See footnotes for important warranty information
US models announced August 5, 2008

♦ Intel Centrino® 2 processor technology

Type-model	Processor	GHz	Memory	Wide-screen display	Cam-era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe Turbo	Finger print reader	Blue-tooth	Bat-tery cells	Workhorse (W) Global (G) Avail date
2716-EBU	Cel 575	2.00	2GB	15.4" WXGA	Cam	GMA	160G 5400	DVD±RW	Intel 5100 ²⁸	None	Finger	Blue	9	Bus 32 Sep 08
2716-3KU	P8400	2.26	1GB	15.4" WXGA		GMA	80G 5400	Combo	Intel 5100	None	Finger	Blue	6	Bus 32 G Aug 08
2716-3LU	T9400	2.53	1GB	15.4" WXGA		GMA	160G 5400	DVD±RW	Intel 5100	None	Finger	Blue	6	Bus 32 W G Aug 08
2716-3MU	T9400	2.53	2GB	15.4" WXGA	Cam	GMA	160G 5400	DVD±RW	Intel 5100	None	Finger	Blue	9	Bus 32 W G Aug 08
2716-6JU	P8400	2.26	1GB	15.4" WXGA		GMA	80G 5400	Combo	Intel 5100	None	Finger	Blue	6	XP Pro G Sep 08
2716-6LU	P8400	2.26	1GB	15.4" WXGA		GMA	80G 5400	DVD±RW	Intel 5100	None			6	XP Pro G Sep 08
<p>• These models have an EasyServ™,19 depot repair service 3-year limited warranty</p>														
Positioning Processor	<p>Mainstream business performance; two spindles Intel® Celeron® Processor 575 with single-core, 667MHz system bus, and 1MB L2 cache Intel Core™ 2 Duo processor P8400 or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400: 3MB L2 cache; T9400: 6MB L2 cache</p>										<p>Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ⇨ Vista Premium logo</p>			
Memory	<p>1GB or 2GB std / 4GB max⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available</p>										<p>Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)</p>			
SATA Combo SATA DVD±RW Ultrabay Enhanced SATA disk	<p>Some: DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm Ultrabay Enh, removable (43R9148) Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high 80GB⁸ (5400 rpm) or 160GB (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>													
Widescreen display Camera	<p>15.4" (391mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: camera on top of screen, 1.3-megapixel, fixed focus</p>													
Integrated graphics	<p>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); Maximum external resolution: 2048x1536@75Hz</p>													
Keyboard TrackPoint® Touch pad ThinkLight™	<p>89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions</p>													
Dimensions ³ Weight ² Case Battery - type Battery - life ¹⁰	<p>6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.4–1.5"; 358.6mm x 260mm x 36–39mm 6-cell: starting at 6.4 lb (2.93kg) Color: black; Material: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Enhanced 6-cell: up to 4.5 hr; 6-cell plus Ultrabay battery: up to 6.0 hr; 9-cell: up to 7.1 hr</p>													
Chipset	<p>Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)</p>													
ExpressCard/54 PC Card Smart Card Read Multicard Reader Ports	<p>One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)</p>										<p>Supports ThinkVantage® technologies</p>			
Mini PCI Express Intel 5100 ²⁸ 2G Turbo WWAN UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	<p>Two Mini PCI Express slots 11a/b/g/n wireless⁴, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None Not supported Not supported 56K V.92⁶ modem Some: Bluetooth 2.0 wireless, LED indicator Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE None High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack</p>										<p>65-watt (GMA graphics) AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>			
Security Security chip Fingerprint reader	<p>Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip</p>										<p>ThinkPlus™,22 2-year LOR²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 43R2476 ThinkPlus 5-year P&L P/U Depot 43R2482 ThinkPad Deluxe Expander Case 43R2478 T500/R500/W500 15W Privacy Filter 43R2474 ThinkVision® L2440x Wide 24" Monitor 4421HB2 Other accessories at lenovo.com/accessories</p>			
Limited warranty ¹²	<p>3-years/1-yr battery - EasyServ™,19 depot repair service / service upgrades²² available</p>													
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Serial ATA Hard Drive Bay Adapter II SATA 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Essential Memory Key 32GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive ThinkPad Adjustable Notebook Stand ThinkPad Advanced Dock Other accessories on O-R500 sheet	<p>43R1987 43R1988 43R1980 43N3411 45K1258 45J5918 41N5565 40Y7676 250310U</p>		<p>T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack ThinkPad Deluxe Expander Case T500/R500/W500 15W Privacy Filter ThinkVision® L2440x Wide 24" Monitor</p>		<p>40Y6799 40Y6797 43R9250 41N8460 43R2476 43R2482 43R2478 43R2474 4421HB2</p>									

See footnotes for important warranty information

⇨ Intel Centrino® 2 processor technology

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Ⓢ US model announced September 30, 2008; previous models on August 5 or September 2, 2008

(WKK3-2) September 2008

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe Turbo	Finger print reader	Blue-tooth	Battery cells	Preload	Whorse (W) Gbl (G) GMP (P)	Avail date
2718-3KU	P8400	2.26	1GB	15.4" WXGA		GMA	80G 5400	Combo	Intel 5100 ²⁸	None	Finger	Blue	6	Bus 32	G P	Aug 08
2718-3LU	T9400	2.53	1GB	15.4" WXGA		GMA	160G 5400	DVD±RW	Intel 5100	None	Finger	Blue	6	Bus 32	WG P	Aug 08
2718-3MU	T9400	2.53	2GB	15.4" WXGA	Cam	GMA	160G 5400	DVD±RW	Intel 5100	None	Finger	Blue	9	Bus 32	WG P	Aug 08
2718-6LU	P8400	2.26	1GB	15.4" WXGA		GMA	80G 5400	DVD±RW	Intel 5100	None			6	XP Pro	G P	Sep 08

• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ 2 Duo processor P8400 or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400: 3MB L2 cache; T9400: 6MB L2 cache										Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ Vista Premium logo				
Memory	1GB or 2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)				
SATA Combo SATA DVD±RW Ultrabay Enhanced SATA disk	Some: DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm Ultrabay Enh, removable (43R9148) Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high 80GB⁸ (5400 rpm) or 160GB (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™														
Widescreen display Camera	15.4" (391mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 200 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, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution:</i> 2048x1536@75Hz														
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³ Weight ² Case	<i>6-cell 15.4W"</i> (WxDxH): 14.1" x 10.2" x 1.4–1.5"; 358.6mm x 260mm x 36–39mm <i>6-cell:</i> starting at 6.4 lb (2.93kg) <i>Color:</i> black; <i>Material:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type Battery - life ¹⁰	Lithium Ion 6-cell or 9-cell , supports unique 2nd battery in Ultrabay Enhanced <i>6-cell:</i> up to 4.5 hr; <i>6-cell plus Ultrabay battery:</i> up to 6.0 hr; <i>9-cell:</i> up to 7.1 hr														
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)														
ExpressCard/54 PC Card Smart Card Reader Multicard Reader Ports	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Mini PCI Express Intel 5100 ²⁸ 2G Turbo WWAN UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Two Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None Not supported Not supported 56K V.92 ⁶ modem Some: Bluetooth 2.0 wireless, LED indicator Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE None High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack														
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip										Supports ThinkVantage® technologies				
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available										65-watt (GMA graphics) AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378				
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Blu-ray Burner Ultrabay Enhanced SATA Serial ATA Hard Drive Bay Adapter II SATA 64GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Essential Memory Key 32GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive ThinkPad Adjustable Notebook Stand ThinkPad Advanced Dock Other accessories on O-R500 sheet	43R1987 43R1988 43R9150 43R1980 43N3400 43N3411 45K1258 45J5918 41N5565 40Y7676 250310U	T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack ThinkPad Deluxe Expander Case T500/R500/W500 15W Privacy Filter ThinkVision® L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	40Y6799 40Y6797 43R9250 41N8460 43R2476 43R2482 43R2478 43R2474 4424HB6 4422HB6 4421HB2	ThinkPlus™.22 4-year LOR 9x5 NBD 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty											

See footnotes for important warranty information

Intel Centrino® 2 processor technology

US model announced September 2, 2008; previous models on August 5, 2008

ThinkPad® R500 2716 (Education) - EasyServ

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Integrated graphics	Disk SATA GB ³ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe Turbo	Finger print reader	Bat- tery Blue- tooth	Workhorse (W) Global (G) Avail date
2716-ECU	Cel 575	2.00	1GB	15.4" WXGA	Cam	GMA	80G 5400	Combo	Intel 5100 ²⁸	None	Finger	Blue	6 Bus 32 No Sep 08
2716-5PU	P8400	2.26	1GB	15.4" WXGA	Cam	GMA	80G 5400	Combo	Intel 5100	None	Finger	Blue	6 Bus 32 No Aug 08
2716-5QU	T9400	2.53	2GB	15.4" WXGA	Cam	GMA	160G 5400	DVD±RW	Intel 5100	None	Finger	Blue	6 Bus 32 No Aug 08
2716-8SU	P8600	2.40	2GB	15.4" WXGA	Cam	GMA	160G 7200	DVD±RW	Intel 5100	None	Finger	Blue	6 Ult 32 No Feb 09

- **These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty**
- Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.
- Microsoft® Office Ultimate 2007 Academic Edition: Only valid for sale to students, faculty and staff of accredited educational institutions in the United States.

Positioning Processor	<i>Mainstream business performance; two spindles</i> Intel® Celeron® Processor 575 with single-core, 667MHz system bus, and 1MB L2 cache Intel Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400/P8600: 3MB L2 cache; T9400: 6MB L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit) ◇ Vista Premium logo
Memory	1GB or 2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	Preloaded applications¹⁴ (all OSes) • ECU/5PU/5QU models: Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection – Photoshop Elements (and CD) – Premier Elements (and DVD) – Acrobat 8 Professional – Contribute 4 • 8SU model: Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)
SATA Combo SATA DVD±RW Ultrabay Enhanced SATA disk	Some: DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm Ultrabay Enh, removable (43R9148) Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high 80GB⁸ (5400) or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display Camera	15.4" (391mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution:</i> 2048x1536@75Hz	
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³ Weight ² Case	<i>6-cell 15.4W" (WxDxH):</i> 14.1" x 10.2" x 1.4–1.5"; 358.6mm x 260mm x 36–39mm <i>6-cell:</i> starting at 6.4 lb (2.93kg) <i>Color:</i> black; <i>Material:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type Battery - life ¹⁰	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Enhanced <i>6-cell:</i> up to 4.5 hr; <i>6-cell plus Ultrabay battery:</i> up to 6.0 hr; <i>9-cell:</i> up to 7.1 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)	
ExpressCard slot PC Card Std slot Smart Card Read Multicard Reader Ports	One ExpressCard/34 or ExpressCard/54 One Type I or Type II slot, CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express Intel 5100 ²⁸ 2G Turbo WWAN UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Two Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None Not supported Not supported 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE None High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack	65-watt (GMA graphics) AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip	ThinkPlus™. ²² 2-year LOR 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 43R9250 41N8460 43R2476 43R2482 43R2478 43R2474 4420HB2
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available	ThinkPlus 4-year LOR 9x5 NBD 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Serial ATA Hard Drive Bay Adapter II SATA 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Security Memory Key 4GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive ThinkPad Adjustable Notebook Stand ThinkPad Advanced Dock Other accessories on O-R500 sheet	43R1987 43R1988 43R1980 43N3411 41U5120 45J5918 41N5565 40Y7676 250310U	T/R/W/SL Series Li-Ion Battery 6-cell 40Y6799 T/R/W/SL Series Li-Ion Battery 9-cell 40Y6797 Advanced Ultrabay Battery II 3-cell 43R9250 90W Slim AC/DC Combo Adapter 41N8460 ThinkPad Business Topload Case 43R2476 ThinkPad Business Backpack 43R2482 ThinkPad Deluxe Expander Case 43R2478 T500/R500/W500 15W Privacy Filter 43R2474 ThinkVision® L2440p Wide 24" Monitor 4420HB2 Other accessories at lenovo.com/accessories

See footnotes for important warranty information

Intel Centrino® 2 processor technology

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US model announced February 17, 2009; previous models on August 5 or September 30, 2008

(WKK3-4) February 2009

ThinkPad® R500 2718 (Education) - Onsite

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe Turbo	Finger print reader	Blue- tooth	Bat- tery cells	Whorse (W) Gbl (G) GMP (P)	Avail date
2718-8SU	P8600	2.40	2GB	15.4" WXGA	Cam	GMA	160G 7200	DVD±RW	Intel 5100 ²⁸	None	Finger	Blue	6	Ultimate	Feb 09
<ul style="list-style-type: none"> This model has a limited onsite service²⁴ 3-year limited warranty Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers. Microsoft® Office Ultimate 2007 Academic Edition: Only valid for sale to students, faculty and staff of accredited educational institutions in the United States. 															
Positioning Processor	<i>Mainstream business performance; two spindles</i> Intel® Core™ 2 Duo processor P8600 with dual-core, Intel HD Boost, 1066MHz system bus, and 3MB L2 cache											Preloaded operating system²⁰ - Microsoft Windows® Vista® Ultimate Edition (32-bit) ◇ Vista Premium logo			
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available											Preloaded applications¹⁴ • Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)			
SATA DVD±RW Ultrabay Enhanced SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high 160GB (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™														
Widescreen display Camera	15.4" (391mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus														
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution: 2048x1536@75Hz</i>														
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³ Weight ² Case	<i>6-cell 15.4W" (WxDxH): 14.1" x 10.2" x 1.4–1.5"; 358.6mm x 260mm x 36–39mm</i> <i>6-cell: starting at 6.4 lb (2.93kg)</i> <i>Color: black; Material: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic</i>														
Battery - type Battery - life ¹⁰	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Enhanced <i>6-cell: up to 4.5 hr; 6-cell plus Ultrabay battery: up to 6.0 hr; 9-cell: up to 7.1 hr</i>														
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)														
ExpressCard/54 PC Card Smart Card Reader Multicard Reader Ports	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Mini PCI Express Intel 5100 ²⁸ 2G Turbo WWAN UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Two Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None Not supported Not supported 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Gigabit ethernet, Broadcom® BCM5787M (MAC/PHY), PCIe x1, PXE None High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack											65-watt (GMA graphics) AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip											ThinkPlus™.22 4-year LOR 9x5 NBD 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available														

See footnotes for important warranty information
US model announced February 17, 2009

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(WKK3-5) February 2009

Partial list of accessories supported on:**• ThinkPad R500 originally announced on August 5, 2008****Memory**

1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	ann	11/04/08
1GB PC3-8500 DDR3 SODIMM	43R1987	ann	08/05/08
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	ann	11/04/08
2GB PC3-8500 DDR3 SODIMM	43R1988	ann	08/05/08

Ultrabay Slim 9.5mm

Serial ATA Hard Drive Bay Adapter II SATA ⁴⁸	43R1980	ann	08/05/08
DVD-ROM Ultrabay Slim SATA 1.5Gb/s ⁴⁸	43N3212	ann	08/05/08
CD-RW/DVD-ROM Ultrabay Slim SATA ⁴⁸	43N3213	ann	08/05/08
DVD Burner Ultrabay Slim SATA 1.5Gb/s ⁴⁸	43N3214	ann	08/05/08
Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s ⁴⁸	43N3215	ann	08/05/08

⁴⁸ Slim 9.5mm device in 12.7mm bay shows gap above the device.

Ultrabay Enhanced 12.7mm

DVD-ROM Ultrabay Enhanced SATA 1.5Gb/s	43R9147	ann	08/05/08
CD-RW/DVD-ROM Ultrabay Enh SATA	43R9148	ann	08/05/08
DVD Burner Ultrabay Enh SATA 1.5Gb/s	43R9149	ann	08/05/08
Blu-ray™ Burner Ultrabay Enh SATA 1.5Gb/s	43R9150	ann	08/05/08

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann	03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann	10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann	01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann	01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann	08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann	01/20/09

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter 43R1980 in the Ultrabay or (in the ThinkPad Advanced Dock 250310U with Serial Hard Drive Ultrabay Slim Adapter 40Y8725)

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ann	08/26/08
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 Security Memory Key 4GB	41U5120	ann	07/17/07
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 Portable Diskette Drive	05K9276	ann	06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann	01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann	09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann	01/23/07

ThinkPad Expansion

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann	02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann	09/20/05
ThinkPad Essential Port Replicator	250510W	ann	09/20/05
ThinkPad Advanced Mini Dock	250410U	ann	09/20/05
ThinkPad Advanced Dock	250310U	ann	09/20/05

Keyboard

TrackPoint Cap Collection	73P2698	ann	12/16/03
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04
USB Keyboard with UltraNav	31P8950	ann	01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann	04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann	05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann	08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann	06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann	11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann	11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann	01/22/08

Security

Kensington® Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
T500/R500/W500 Series 15W Privacy Filter	43R2474	ann	08/05/08
USB Gemplus Smart Card Reader	41N3040	ann	02/21/06
PC Card Gemplus Smart Card Reader	41N3004	ann	12/13/05
ExpressCard Gemplus Smart Card Reader	41N3043	ann	06/27/06

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann	06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann	08/29/06

Batteries

T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799	ann	01/05/06
T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797	ann	09/20/05
Advanced Ultrabay Battery II 3-cell ⁴³	43R9250	ann	04/22/08

⁴³ Used in Ultrabay Slim bay.
 ThinkPad External Battery Charger⁴⁴ 40Y7625 ann 09/20/05
⁴⁴ Requires the ThinkPad 90W AC Adapter 40Y7659 (adapter provided with some systems).

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann	01/05/06
⁴⁵ Only compatible with the GM45 chipset models.			
ThinkPad 90W AC Adapter	40Y7659	ann	09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460	ann	11/27/07

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

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460

•Dual (ThinkPad+Phone) Charging Y-Cable	41R4345	ann	12/18/07
•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

More information at www.lenovopowertips.com

Carrying Cases**Up to 15.4" widescreen models:**

Lenovo Carrying Case - Messenger Max	41U5253	ann	05/01/07
Lenovo Carr Case - Performance Backpack	41U5254	ann	05/01/07
Lenovo Standard Case	45K1697	ann	11/25/08
Lenovo Standard Backpack	45K1698	ann	11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann	02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann	08/12/08
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Lenovo luxury cases at www.lenovoluxurycases.com

Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann	04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann	09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann	11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann	09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann	04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann	09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann	09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann	09/17/08

Monitor Accessories⁴⁶

DisplayPort to Single-link DVI-D Cable	45J7915	ann	08/05/08
ThinkVision USB Soundbar	40Y7616	ann	08/23/05
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann	01/05/06
Radial Arm	19K4464	ann	05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad® T61 14W 7658 (GMA) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ⁸ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Finger print reader	Bat- tery cells	Whorse (W) Gbl (G) Educ	Avail date
✕ 7658-15U T7100	1.80	1GB	14.1"	WXGA	GMA	80G 5400	DVD±RW	* Intel 11a/b/g ³²		/54		Finger	4	Bus32	May07
7658-01U T7100	1.80	1GB	14.1"	WXGA	GMA	80G 5400	DVD±RW	* Intel 11a/b/g		/54		Finger	4	XP Pro	July07
7658-02U T7300	2.00	1GB	14.1"	WXGA	GMA	120G 5400	DVD±RW	* Intel 11a/b/g		/54	Blue	Finger	4	Bus32	July07
7658-03U T7300	2.00	1GB	14.1"	WXGA	GMA	120G 5400	DVD±RW	* Intel 11a/b/g		/54	Blue	Finger	4	XP Pro	July07
✕ 7658-04U T7250	2.00	1GB	14.1"	WXGA	GMA	100G 7200	Combo	* Intel 11a/b/g		/54	Blue	Finger	4	XP Pro	Dec07
✕ 7658-17U T7500	2.20	1GB	14.1"	WXGA	GMA	160G 5400	DVD±RW	* Intel 11n ²⁸	1G Turbo	/54	Blue	Finger	4	Bus32	Oct 07
7658-18U T7500	2.20	1GB	14.1"	WXGA	GMA	160G 5400	DVD±RW	* Intel 11n		/54	Blue	Finger	4	XP Pro	Oct 07
7658-RUU T8100	2.10	1GB	14.1"	WXGA	GMA	120G 5400	DVD±RW	* Intel 11a/b/g		/54		Finger	4	XP Pro	Jan 08
7658-RVU T8100	2.10	1GB	14.1"	WXGA	GMA	100G 7200	DVD±RW	* Intel 11n		/54	Blue	Finger	4	XP Pro	Jan 08
7658-19U T5270	1.40	1GB	14.1"	WXGA	GMA	100G 7200	Combo	* Intel 11a/b/g		/54			4	Bus32	Apr 08
7658-NKU T8100	2.10	2GB	14.1"	WXGA	GMA	160G 5400	DVD±RW	* Intel 11a/b/g		/54		Finger	4	Bus32	Apr 08
☞ 7658-NLU T8100	2.10	2GB	14.1"	WXGA	GMA	100G 7200	DVD±RW	* Intel 11n		/54	Blue	Finger	4	Bus32	Apr 08
7658-05U T8300	2.40	2GB	14.1"	WXGA	GMA	100G 7200	DVD±RW	* Intel 11n		4-in-1	Blue	Finger	6	Bus32 Educ	May08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty¹²

Processor	Intel® Core™ 2 Duo processor T5270 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, 800MHz system bus, and 2MB shared L2 cache or Intel® Core™ 2 Duo processor T7100, T7250, T7300, T7500, T8100, or T8300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, and 800MHz system bus; T7100/T7250: 2MB L2 cache; T7300/T7500: 4MB L2; T8100/T8300: 3MB L2 cache	Preloaded operating system ²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ 02U/17U/19U: Vista Basic logo ◇ 05U/15U/NKU/NLU: Vista Premium logo
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	Preloaded applications ¹⁴ (all OSes; only some listed) • Microsoft Office OneNote® 2007 and CD (05U model) • Some: Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • ThinkPad Utilities • Some: Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW) • Corel WinDVD Creator (XP Pro DVD±RW models)
Diskette drive	None (use optional USB-based diskette drive)	Supports ThinkVantage® technologies 65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
EIDE Combo	Some: DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ speed, removable from Ultrabay Slim	
EIDE DVD±RW	Some: DVD burner, Super Multi-Burner (40Y8623) dual-layer, removable from Ultrabay	
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel	
Serial ATA disk	80GB ⁸ (5400 rpm), 100GB (7200 rpm), 120GB (5400 rpm), or 160GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™	ThinkPlus™.22 1-year LOR ²⁴ 9x5 NBD 45K5968
Widescreen display	14.1" (358.1mm) WXGA (1280x800) color, anti-glare, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio	ThinkPlus 2-year LOR 9x5 NBD 45K5969
Camera	None	ThinkPlus 3-year LOR 9x5 NBD 45K5970
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock	ThinkPlus 4-year LOR 9x5 NBD 45K5973
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Apl keys	ThinkPlus 5-year LOR 9x5 NBD 45K5975
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	ThinkPlus 2-year P&L P/U Depot 45K5971
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones	ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	ThinkPlus 4-year P&L P/U Depot 45K5974
Dimensions ³	4-cell 14.1W" (WxDxH): 13.2" x 9.3" x 1.09–1.26"; 335mm x 237mm x 27.6–31.9mm	ThinkPlus 5-year P&L P/U Depot 45K5976
Weight ²	4-cell: starting at 5.0 lb (2.3kg)	Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty
Case material	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic	
Battery - type	Lithium Ion 4-cell or 6-cell, supports unique 2nd battery in Ultrabay Slim	
Battery - life ¹⁰	4-cell: up to 3.6 hr; 6-cell: up to 5.7 hr; 6-cell plus Ultrabay battery: up to 7.2 hr	
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express [®] x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)	
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit	
ExpressCard slot	Some: [/54] One ExpressCard/34 or ExpressCard/54	
Smart Card Read	None	
Multicard Reader	Some: 4-in-1 reader (MultiMediaCard, Mem Stick PRO, Sec Digital, xD-Picture Card™)	
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios	
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable	
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG	
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)	
WWAN	None	
1G Turbo	Some: Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator	
Modem	56K V.92 [®] modem in Communications Daughter Card socket	
Bluetooth™	Some: Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator	
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE	
Intel AMT	Intel Active Management Technology (iAMT)	
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant	
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip	
Limited warranty ¹²	1-year - EasyServ™.19 depot repair service / service upgrades ²² available	

See footnotes for important warranty information

* Intel Centrino® processor technology

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☞ US model announced May 15, 2008;

* Intel Centrino with vPro™ technology

(ML1-1) May 2008

☞ previous models on May 9, July 6, October 30, December 6, 2007, January 8, or April 8, 2008

✕ US models withdrawn effective December 2007 or June 2008

ThinkPad® T61 14W 7664 (NVIDIA®) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Graphics controller	Disk SATA GB ² rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue-tooth	Battery cells	Whorse (W) Gbl (G) Educ	Avail date
7664-16U	T7300	2.00	1GB	14.1" WXGA+		128MB	120G 5400	DVD±RW	* Intel 11n ²⁸	1G Turbo	/54	Blue	6	Bus 32	May 07
7664-17U	T7300	2.00	2GB	14.1" WXGA+		128MB	160G 5400	DVD±RW	* Intel 11n	1G Turbo	/54	Blue	6	Ult 32	May 07
7664-04U	T7300	2.00	1GB	14.1" WXGA+		128MB	120G 5400	DVD±RW	* Intel 11n		/54	Blue	6	XP Pro	July 07
7664-05U	T7300	2.00	1GB	14.1" WXGA+		128MB	160G 5400	DVD±RW	* Intel 11n	Verizon	/54	Blue	6	XP Pro	July 07
7664-06U	T7500	2.20	1GB	14.1" WXGA+		128MB	100G 7200	Combo	* Intel 11n		/54	Blue	4	XP Pro	Dec 07
7664-1JU	T7500	2.20	1GB	14.1" WXGA+		128MB	160G 5400	DVD±RW	* Intel 11n	1G Turbo	/54	Blue	6	Bus 32	Oct 07
7664-1KU	T7500	2.20	1GB	14.1" WXGA+		128MB	160G 5400	DVD±RW	* Intel 11n		/54	Blue	6	XP Pro	Oct 07
7664-1LU	T7700	2.40	2GB	14.1" WXGA+		128MB	160G 7200	DVD±RW	* Intel 11n	1G Turbo	/54	Blue	6	Bus 32	Oct 07
7664-RYU	T8100	2.10	1GB	14.1" WXGA+		128MB	100G 7200	DVD±RW	* Intel 11n		/54	Blue	6	XP Pro	Jan 08
7664-RWU	T8300	2.40	1GB	14.1" WXGA+		128MB	160G 5400	DVD±RW	* Intel 11n	Verizon	/54	Blue	6	XP Pro	Jan 08
7664-R8U	T8100	2.10	2GB	14.1" WXGA+		128MB	100G 7200	DVD±RW	* Intel 11n		/54	Blue	6	Bus 32	Apr 08
7664-R7U	T8300	2.40	2GB	14.1" WXGA+		128MB	160G 5400	DVD±RW	* Intel 11n	Verizon	/54	Blue	6	Bus 32	Apr 08
7664-01U	T5670	1.80	2GB	14.1" WXGA+	Cam	128MB	100G 7200	DVD±RW	* Intel 4965AG ³²		4-in-1	Blue	6	Bus 32 Educ	Aug 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹²

Processor	Intel® Core™ 2 Duo processor T5670, T7300, T7500, T7700, T8100, or T8300 with dual-core, 800MHz system bus, T5670: 2MB shared L2 cache; T7300/T7500/T7700: 4MB shared L2 cache; T8100/T8300: 3MB shared L2 cache	Preloaded operating system ²⁰
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	- Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit) ◇ Vista models: Vista Premium logo
Diskette drive	None (use optional USB-based diskette drive)	Preloaded applications ¹⁴ (all OSes; only some listed)
EIDE Combo	Some: DVD-ROM/CD-RW, 24X/24X/8X ²¹ speed, removable from Ultrabay Slim	• Some: Education software
EIDE DVD±RW	Some: DVD burner, Super Multi-Burner (40Y8623) dual-layer, removable from Ultrabay	- Microsoft Office OneNote® 2007 (and CD)
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel	- VitalSource Library College Edition
Serial ATA disk	100GB ⁸ (7200 rpm), 120GB ⁸ (5400 rpm), or 160GB ⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™	- Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4
Widescreen display	14.1" (358.1mm) WXGA+ (1440x900) color, anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	• Rescue and Recovery™
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0	• Access Connections™
Graphics	NVIDIA® Quadro® NVS 140M, PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock	• Client Security Solution™
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys	• ThinkVantage System Update
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	• Norton Internet Security™ (90 days of virus definitions)
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones	• PC-Doctor™ (diagnostics)
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	• ThinkPad Utilities
Dimensions ³	6-cell 14.1W" (WxDxH): 13.2" x 10.2" x 1.09–1.26"; 335 x 261mm x 27.6–31.9mm	• FingerPrint Software
Weight ²	6-cell: starting at 5.3 lb (2.4kg)	• Microsoft Office 2007 Trial (60-day)
Case material	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic	• EarthLink Trial (Vista Ultimate mod)
Battery - type	Lithium Ion 4-cell or 6-cell, supports unique 2nd battery in Ultrabay Slim	• Sonic RecordNow and Drive Letter Access (DVD±RW)
Battery - life ¹⁰	6-cell: up to 3.8 hr; 6-cell plus Ultrabay battery: up to 5.3 hr	• Corel® WinDVD® (DVD±RW)
Chipset	Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerPrint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)	• Corel WinDVD Creator (XP Pro DVD±RW models)
PC Card	One slot (Type I, Type II), CardBus 32-bit	Supports ThinkVantage® technologies
ExpressCard/54	Some: [/54] One slot (ExpressCard/34, ExpressCard/54)	90-watt (NVIDIA) AC adapter
Smart Card Read	None	ThinkPad Roll Cage and Top Cover
Multicard Reader	Some: 4-in-1 reader (MultiMediaCard, Mem Stick® PRO, Sec Digital, xD-Picture Card™)	Roll Cage (one-piece magnesium)
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	ENERGY STAR® 4.0-compliant
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios	RoHS-compliant
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable	International Warranty Service ¹⁷
Intel 4965AG ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)	ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175
Verizon ¹⁶	Some: Wireless WAN, Sierra Wireless 1xEV-DO Network Adapter, Mini PCIe adapter, EV-DO Rev. A, service contract reqd with Verizon® Wireless	ThinkPlus 3-year LOR 9x5 NBD 45K6021
1G Turbo	Some: Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator	ThinkPlus 4-year LOR 9x5 NBD 45K6022
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket	ThinkPlus 5-year LOR 9x5 NBD 45K6024
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator	ThinkPlus 4-year P&L P/U Depot 45K6023
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE	ThinkPlus 5-year P&L P/U Depot 45K6025
Intel AMT	Intel Active Management Technology (iAMT)	Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant	
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip	
Limited warranty ¹²	3-years/1-yr battery - EasyServ depot repair service / service upgrades ²² available	
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	
Other accessories on O-T61 sheet		
T/R 14W High Capacity Batt 9-cell	43R2499	
90W Slim AC/DC Combo Adapter	41N8460	
Other accessories at lenovo.com/accessories		

See footnotes for important warranty information

* Intel Centrino® with vPro™ technology

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US models announced August 1, 2008; previous models on May 9, Jul 6, Oct 30, Dec 6, 2007, Jan 8, or Apr 8, 2008

(ML1-2) August 2008

US models withdrawn effective Dec 2007, May 2008, or June 2008

ThinkPad® T61u 14W 7659 (GMA) - Education (EasyServ)

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller	Cam- era	Disk SATA GB ⁸ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Finger print reader	Vista preload	Workhorse (W) Limited warranty ¹²	Gbl (G) Avail date
7659-N2U	T8300	2.40 1GB	14.1" WXGA	GMA	Cam 80G	5400 Combo	11a/b/g	None	4-in-1	Blue	Fing	Business32	EasyServ	No Feb 08	
7659-N3U	T9300	2.50 1GB	14.1" WXGA	GMA	Cam 100G	7200 DVD±RW	11a/b/g	None	4-in-1	Blue	Fing	Business32	EasyServ	No Feb 08	
7659-05U	T9300	2.50 2GB	14.1" WXGA	GMA	Cam 160G	7200 DVD±RW	11a/b/g	None	4-in-1	Blue	Fing	Business32	EasyServ	No Apr 08	

Italic MTM: not a base model for building a custom model

• **These models have an EasyServ™.19 depot repair service 3-year limited warranty**

These educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T8300 or T9300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus; <i>T8300: 3MB L2 cache; T9300: 6MB shared L2 cache</i>											Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ◇ Vista Basic logo			
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available											Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Some: Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo, DVD±RW) • Corel® WinDVD® (combo, DVD±RW)			
Diskette drive	None (use optional USB-based diskette drive)														
EIDE Combo	Some: DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ speed, removable from Ultrabay Slim														
EIDE DVD±RW	Some: DVD burner, Super Multi-Burner (40Y8623) dual-layer, removable Ultrabay Slim														
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel														
Serial ATA disk	80GB⁸ (5400 rpm), 100GB (7200 rpm), or 160GB (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™														
Widescreen display	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio														
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0														
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock														
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass														
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones														
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³	<i>6-cell 14.1W" (WxDxH): 13.2" x 10.2" x 1.09–1.26"; 335 x 261mm x 27.6–31.9mm</i>														
Weight ²	<i>6-cell: starting at 5.3 lb (2.4kg)</i>														
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic														
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim														
Battery - life ¹⁰	<i>6-cell:</i> up to 5.7 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.2 hr														
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)														
PC Card	One slot (Type I, Type II), CardBus 32-bit, integrated door														
ExpressCard slot	None														
Smart Card Read	None														
Multicard Reader	4-in-1 reader (MultiMediaCard, Mem Stick PRO, Sec Digital, xD-Picture Card™)														
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios														
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable														
11a/b/g ³²	11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX														
WWAN	None														
Turbo Memory	None														
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket														
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator														
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE														
Intel AMT	Intel Active Management Technology (IAMT)														
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant														
Fingerprint reader	Some: Fingerprint reader on palm rest , swipe sensor, supports the security chip														
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades²² available														
1GB PC2-5300 DDR2 SODIMM	40Y7734				T/R 14W Standard Battery 4-cell				41U3196						
2GB PC2-5300 DDR2 SODIMM	40Y7735				T/R 14W Enhanced Battery 6-cell				41U3198						
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643				T/R 14W High Capacity Batt 9-cell				43R2499						
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406				Advanced Ultrabay Battery II 3-cell				43R9250						
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410				ThinkPad External Battery Charger				40Y7625						
USB 2.0 Security Memory Key 4GB	41U5120				ThinkPad 90W AC Adapter				40Y7659						
USB 2.0 Super Multi-Burner Drive	41N5565				90W Slim AC/DC Combo Adapter				41N8460						
ThinkPad Convertible Monitor Stand	40Y7620				ThinkPad Business Backpack				43R2482						
ThinkPad Essential Port Replicator	250510W				ThinkVision® L1940p Wide 19" Monitor				4424HB6						
ThinkPad Advanced Mini Dock	250410U				ThinkVision L2240p Wide 22" Monitor				4422HB6						
ThinkPad Advanced Dock	250310U				ThinkVision L2440x Wide 24" Monitor				4421HB2						
Other accessories on O-T61 sheet	Other accessories at lenovo.com/accessories														
												Supports ThinkVantage® technologies			
												65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
												ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175			
												ThinkPlus 3-year LOR 9x5 NBD 45K6021			
												ThinkPlus 4-year LOR 9x5 NBD 45K6022			
												ThinkPlus 5-year LOR 9x5 NBD 45K6024			
												ThinkPlus 4-year P&L P/U Depot 45K6023			
												ThinkPlus 5-year P&L P/U Depot 45K6025			
												Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			

See footnotes for important warranty information

US models announced April 10, 2008; previous models on February 19, 2008

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(ML2-1) April 2008

ThinkPad® T61u 14W 7659 (GMA) - Education (Linux)

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ³ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Finger Bat- print tery reader cells	Workhorse (W) Linux Global (G) Entry (E)	Avail date
7659-3AU	T8300	2.40	1GB	14.1" WXGA	GMA	80G 5400	Combo	*Intel 11a/b/g ³²	None	/54	None	6 SLED10	No Feb 08
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T8300 with dual-core. Intel 64 Technology, Enhanced Intel SpeedStep technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 3MB shared L2 cache												
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available												
Diskette drive	None (use optional USB-based diskette drive)												
EIDE Combo	DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ speed, removable from Ultrabay Slim												
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel												
Serial ATA disk	80GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive												
Widescreen display	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio												
Camera	None												
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Apl keys												
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass												
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones												
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	6-cell 14.1W™ (WxDxH): 13.2" x 10.2" x 1.09–1.26"; 335 x 261mm x 27.6–31.9mm												
Weight ²	6-cell: starting at 5.3 lb (2.4kg)												
Case material	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic												
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim												
Battery - life ¹⁰	Not published												
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express [®] x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)												
PC Card	One slot (Type I, Type II), CardBus 32-bit												
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)												
Smart Card Read	None												
Multicard Reader	None												
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios												
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable												
Intel 11a/b/g ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG												
WWAN	None												
Turbo Memory	None												
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket												
Bluetooth™	None												
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE												
Intel AMT	Not supported												
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack												
Security	Power-on password, hard disk password, supervisor password, security keyhole												
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant												
Fingerprint reader	None												
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available												
1GB PC2-5300 DDR2 SODIMM	40Y7734			T/R 14W Standard Battery 4-cell				41U3196					
2GB PC2-5300 DDR2 SODIMM	40Y7735			T/R 14W Enhanced Battery 6-cell				41U3198					
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643			T/R 14W High Capacity Batt 9-cell				43R2499					
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725			Advanced Ultrabay Battery II 3-cell				43R9250					
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406			ThinkPad External Battery Charger				40Y7625					
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411			90W Slim AC/DC Combo Adapter				41N8460					
USB 2.0 Ultra Secure Memory Key 8GB	45J5918			ThinkPad Business Topload Case				43R2476					
USB 2.0 Lenovo Enhanced Port Replicator	43R8770			ThinkPad Business Backpack				43R2482					
ThinkPad Essential Port Replicator	250510W			ThinkVision® L1940p Wide 19" Monitor				4424HB6					
ThinkPad Advanced Mini Dock	250410U			ThinkVision L2240p Wide 22" Monitor				4422HB6					
ThinkPad Advanced Dock	250310U			ThinkVision L2440x Wide 24" Monitor				4421HB2					
Check Linux compatibility for other accessories	Other accessories at lenovo.com/accessories												
Preloaded operating system ²⁰	- SUSE® Linux™ Enterprise Desktop10 Service Pack 1												
Preloaded applications ¹⁴	• None												
Supported devices (only some listed)	<ul style="list-style-type: none"> • HD Audio • Intel 3945ABG wireless • Intel Graphics Media Accelerator X3100 (GMA X3100) • NVIDIA Quadro NVS 140M • Fingerprint reader • Bluetooth • Function keys • ThinkPad Advanced Dock 												
Non-supported devices (only some listed)	<ul style="list-style-type: none"> • Intel 4965AG, Intel 4965AGN, ThinkPad 11a/b/g, ThinkPad 11n wireless • WWAN • Active Protection System™ • ThinkVantage® button • Security chip • Intel Turbo Memory • Intel AMT technology • Integrated camera 												
Non-supported applications (only some listed)	<ul style="list-style-type: none"> • ThinkPad Utilities • ThinkVantage technologies • Presentation Director • Encrypted DVD playback • Keyboard Customizer 												
65-watt (GMA graphics) AC adapter	ThinkPad Roll Cage and Top Cover												
Roll Cage (one-piece magnesium)	RoHS-compliant												
International Warranty Service ¹⁷	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378												
ThinkPlus™. ²² 2-year LOR ²⁴ 9x5 NBD	41C9175												
ThinkPlus 3-year LOR 9x5 NBD	45K6021												
ThinkPlus 4-year LOR 9x5 NBD	45K6022												
ThinkPlus 5-year LOR 9x5 NBD	45K6024												
ThinkPlus 4-year P&L P/U Depot	45K6023												
ThinkPlus 5-year P&L P/U Depot	45K6025												
Post-warranty annual maintenance agreements at	lenovo.com/thinkplus/warranty												

See footnotes for important warranty information
 US model announced February 19, 2008

* Intel Centrino® processor technology

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 (ML2-3) February 2008

ThinkPad® T61u 14W 7663 (NVIDIA®) - Education (EasyServ)

Personal Systems Reference (PSREF)

Proc- Type-model essor	GHz	Memory	Wide- screen display	Graphics controller memory	Cam- era	Disk SATA GB ⁸ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Vista preload	Workhorse (W) Limited Gbl (G) warranty ¹²	Avail date
7663-N1U T9300	2.50	1GB	14.1"	WXGA+ 128MB	Cam	100G 7200	DVD±RW	11a/b/g	None	4-in-1	Blue	Business32	EasyServ No	Feb 08
7663-05U T9300	2.50	2GB	14.1"	WXGA+ 128MB	Cam	160G 7200	DVD±RW	11a/b/g	None	4-in-1	Blue	Business32	EasyServ No	Apr 08

Italic MTM: not a base model for building a custom model

• **These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Processor	Intel® Core™ 2 Duo processor T9300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 6MB shared L2 cache											Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ◇ Vista Premium logo		
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available											Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskkeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Some: Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW)		
Diskette drive	None (use optional USB-based diskette drive)											Supports ThinkVantage® technologies		
EIDE DVD±RW	DVD burner, Super Multi-Burner (40Y8623) dual-layer, removable Ultrabay Slim													
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel													
Serial ATA disk	100GB⁸ (7200 rpm) or 160GB (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™													
Widescreen display	14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio													
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0											90-watt (NVIDIA) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378		
Graphics	NVIDIA® Quadro® NVS 140M , PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock													
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys													
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass													
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones													
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³	6-cell 14.1W" (WxDxH): 13.2" x 10.2" x 1.09–1.26"; 335 x 261mm x 27.6–31.9mm													
Weight ²	6-cell: starting at 5.3 lb (2.4kg)													
Case material	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic													
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim													
Battery - life ¹⁰	6-cell: up to 3.8 hr; 6-cell plus Ultrabay battery: up to 5.3 hr													
Chipset	Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)											Supports ThinkVantage® technologies		
PC Card	One slot (Type I, Type II), CardBus 32-bit													
ExpressCard slot	None													
Smart Card Read	None													
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick PRO, Secure Digital, xD-Picture Card™)													
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)													
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios													
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable													
11a/b/g ³²	11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX													
WWAN	None													
Turbo Memory	None													
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket											Supports ThinkVantage® technologies		
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator													
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE													
Intel AMT	Intel Active Management Technology (iAMT)													
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack													
Security	Power-on password, hard disk password, supervisor password, security keyhole													
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant													
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip													
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available													
1GB PC2-5300 DDR2 SODIMM	40Y7734	T/R 14W Standard Battery 4-cell	41U3196	ThinkPlus™. ²² 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty										
2GB PC2-5300 DDR2 SODIMM	40Y7735	T/R 14W Enhanced Battery 6-cell	41U3198											
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643	T/R 14W High Capacity Batt 9-cell	43R2499											
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725	Advanced Ultrabay Battery II 3-cell	43R9250											
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkPad External Battery Charger	40Y7625											
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410	ThinkPad 90W AC Adapter	40Y7659											
USB 2.0 Security Memory Key 4GB	41U5120	90W Slim AC/DC Combo Adapter	41N8460											
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ThinkPad Business Topload Case	43R2476											
USB 2.0 Super Multi-Burner Drive	41N5565	ThinkPad Business Backpack	43R2482											
USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ThinkPad Deluxe Expander Case	43R2478											
ThinkPad Adjustable Notebook Stand	40Y7676	ThinkVision® L1700p 17" Monitor	9417HE2											
ThinkPad Convertible Monitor Stand	40Y7620	ThinkVision L1940p Wide 19" Monitor	4424HB6											
ThinkPad Essential Port Replicator	250510W	ThinkVision L2240p Wide 22" Monitor	4422HB6											
ThinkPad Advanced Mini Dock	250410U	ThinkVision L2440p Wide 24" Monitor	4420HB2											
ThinkPad Advanced Dock	250310U	ThinkVision L2440x Wide 24" Monitor	4421HB2											
Other accessories on O-T61 sheet	Other accessories at lenovo.com/accessories													

See footnotes for important warranty information

Ⓜ US model announced April 10, 2008; previous model on February 19, 2008

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(ML2-2) April 2008

ThinkPad® T61u 14W 7663 (NVIDIA®) - Education (Linux)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Graphics controller memory	Disk SATA GB ⁵ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Bat- tery cells	Linux preload	Workhorse (W) Global (G) Entry (E)	Avail date
7663-3MU	T8300	2.40	1GB	14.1" WXGA+	128MB	120G 5400	DVD±RW	* Intel 11a/b/g ³²	None	/54	Blue	6-cell	SLED10	No	Feb 08
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T8300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 3MB shared L2 cache											Preloaded operating system²⁰ - SUSE® Linux™ Enterprise Desktop10 Service Pack 1 Preloaded applications¹⁴ • None			
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											Supported devices (only some listed) • HD Audio • Intel 3945ABG wireless • Intel Graphics Media Accelerator X3100 (GMA X3100) • NVIDIA Quadro NVS 140M • Fingerprint reader • Bluetooth • Function keys • ThinkPad Advanced Dock			
Diskette drive	None (use optional USB-based diskette drive)											Non-supported devices (only some listed) • Intel 4965AG, Intel 4965AGN, ThinkPad 11a/b/g, ThinkPad 11n wireless • WWAN • Active Protection System™ • ThinkVantage® button • Security chip • Intel Turbo Memory • Intel AMT technology • Integrated camera Non-supported applications (only some listed) • ThinkPad Utilities • ThinkVantage technologies • Presentation Director • Encrypted DVD playback • Keyboard Customizer			
EIDE DVD±RW	DVD burner, Super Multi-Burner (40Y8623) dual-layer, removable Ultrabay Slim														
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel														
Serial ATA disk	120GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive														
Widescreen display	14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, 200 nits, 16:10, 300:1, 300:1 contrast ratio														
Camera	None														
Graphics	NVIDIA® Quadro® NVS 140M , PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock														
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass														
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones														
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³	<i>6-cell 14.1W"</i> (WxDxH): 13.2" x 10.2" x 1.09–1.26"; 335 x 261mm x 27.6–31.9mm														
Weight ²	<i>6-cell:</i> starting at 5.3 lb (2.4kg)														
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic														
Battery - type	Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim														
Battery - life ¹⁰	Not published														
Chipset	Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)														
PC Card	One slot (Type I, Type II), CardBus 32-bit														
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)														
Smart Card Read	None														
Multicard Reader	None														
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios														
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable														
Intel 11a/b/g ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG														
WWAN	None														
Turbo Memory	None														
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket														
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator														
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE														
Intel AMT	Not supported														
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant														
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip														
Limited warranty ¹² 3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available															
1GB PC2-5300 DDR2 SODIMM	40Y7734	T/R 14W Standard Battery 4-cell			41U3196										
2GB PC2-5300 DDR2 SODIMM	40Y7735	T/R 14W Enhanced Battery 6-cell			41U3198										
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643	T/R 14W High Capacity Batt 9-cell			43R2499										
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725	Advanced Ultrabay Battery II 3-cell			43R9250										
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkPad External Battery Charger			40Y7625										
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	90W Slim AC/DC Combo Adapter			41N8460										
USB 2.0 Security Memory Key 4GB	41U5120	ThinkPad Business Topload Case			43R2476										
ThinkPad Essential Port Replicator	250510W	ThinkPad Business Backpack			43R2482										
ThinkPad Advanced Mini Dock	250410U	ThinkVision® L2240p Wide 22" Monitor			4422HB6										
ThinkPad Advanced Dock	250310U	ThinkVision L2440p Wide 24" Monitor			4420HB2										
Check Linux compatibility for other accessories					Other accessories at lenovo.com/accessories										
ThinkPlus™. ²² 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025															

See footnotes for important warranty information
 US model announced February 19, 2008

* Intel Centrino® processor technology

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 (ML2-4) February 2008

ThinkPad® T61 15W (GMA Graphics)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ³ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Bat- tery cells	Vista preload	Workhorse (W) Global (G) Entry (E)	Avail date
6463-4YU	T7300	2.00	1GB	15.4" WXGA	GMA	80GB 5400	Combo	* Intel 4965AG ³²	None	Smart	Blue	6	Business32	W G Jun 07
6463-4XU	T7300	2.00	1GB	15.4" WXGA	GMA	120G 5400	Combo	* Intel 4965AG	None	Smart	Blue	6	Business32	W G Jun 07
✕ 6463-5BU	T7300	2.00	1GB	15.4" WXGA	GMA	80GB 5400	Combo	* Intel 4965AG	None	Smart	Blue	6	XP Pro	W G Jun 07
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T7300 with dual-core , Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache											Preloaded operating system²⁰ - <i>Some:</i> Microsoft® Windows® XP Professional - <i>Some:</i> Microsoft Windows Vista™ Business Edition (32-bit) ◇ 6463-4YU/4XU: Vista Basic logo		
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software • Microsoft Office 2007 Trial (60-day)		
Diskette drive	None (use optional USB-based diskette drive)													
EIDE Combo	DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ speed, removable from Ultrabay Slim													
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel													
Serial ATA disk	80GB⁸ (5400 rpm) or 120GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™													
Widescreen display	15.4" (391mm) WXGA (1280x800) color , anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio													
Camera	None													
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock													
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys													
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass													
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones													
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³	<i>15.4" models (WxDxH):</i> 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm													
Weight ²	with optical drive and battery: starting at 5.9 lb (2.7kg)													
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic													
Battery - type	Lithium Ion 6-cell / supports unique 2nd battery in Ultrabay Slim													
Battery - life ¹⁰	<i>6-cell:</i> up to 5.5 hr; <i>9-cell:</i> up to 8.3 hr; <i>9-cell plus Ultrabay battery:</i> up to 9.8 hr													
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)													
PC Card	One slot (Type I, Type II), CardBus 32-bit													
ExpressCard slot	None													
Smart Card Reader	Smart Card Reader													
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)													
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)													
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios													
Mini PCI Express	Three Mini PCI Express slots / only 802.11 wireless is customer upgradable													
Intel 4965AG ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG													
WWAN	None													
Turbo Memory	None													
UWB	None (uses Half-Mini PCI Express slot)													
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket													
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator													
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE													
Intel AMT	Intel Active Management Technology (IAMT)													
Audio support	High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack													
Security	Power-on password, hard disk password, supervisor password, security keyhole													
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant													
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip													
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available													
1GB PC2-5300 DDR2 SODIMM	40Y7734			T/R/W/SL Series Li-Ion Battery 6-cell			40Y6799			ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD				
2GB PC2-5300 DDR2 SODIMM	40Y7735			T/R/W/SL Series Li-Ion Battery 9-cell			40Y6797			41C9175				
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643			Advanced Ultrabay Battery II 3-cell			43R9250			ThinkPlus 3-year LOR 9x5 NBD				
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725			ThinkPad External Battery Charger			40Y7625			45K6021				
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406			ThinkPad 90W AC Adapter			40Y7659			ThinkPlus 4-year LOR 9x5 NBD				
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410			90W Slim AC/DC Combo Adapter			41N8460			45K6022				
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411			ThinkPad Business Topload Case			43R2476			ThinkPlus 5-year LOR 9x5 NBD				
USB 2.0 Ultra Secure Memory Key 8GB	45J5918			ThinkPad Business Backpack			43R2482			45K6024				
USB 2.0 Super Multi-Burner Drive	41N5565			ThinkPad Deluxe Expander Case			43R2478			ThinkPlus 4-year P&L P/U Depot				
USB 2.0 Lenovo Enhanced Port Replicator	43R8770			ThinkPad Executive Leather Case			43R2480			45K6023				
ThinkPad Convertible Monitor Stand	40Y7620			ThinkVision® L1700p 17" Monitor			9417HE2			ThinkPlus 5-year P&L P/U Depot				
ThinkPad Essential Port Replicator	250510W			ThinkVision L1940p Wide 19" Monitor			4424HB6			45K6025				
ThinkPad Advanced Mini Dock	250410U			ThinkVision L2240p Wide 22" Monitor			4422HB6			Post-warranty annual maintenance agreements at				
ThinkPad Advanced Dock	250310U			ThinkVision L2440x Wide 24" Monitor			4421HB2			lenovo.com/thinkplus/warranty				
Other accessories on O-T61 sheet														

See footnotes for important warranty information
US models announced May 31, 2007

* Intel Centrino® with vPro™ technology

✕ US model withdrawn effective May 28

ThinkPad® T61 15W 6464 (GMA) - Onsite

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ³ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Bat- tery cells	Workhorse (W) Vista Global (G) preload GMP (P)	Avail date
6464-4YU	T7300	2.00	1GB	15.4" WXGA	GMA	80GB 5400	Combo	* Intel 4965AG ³²	None	Smart	Blue	6	Business32 W G P Jun 07

• **This model is part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty**

Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T7300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache											Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ◇ Vista Basic logo
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											Preloaded applications¹⁴ <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo) • Corel® WinDVD® (combo)
Diskette drive EIDE Combo Ultrabay Slim Serial ATA disk	None (use optional USB-based diskette drive) DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ speed, removable from Ultrabay Slim One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 80GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											
Widescreen display Camera	15.4" (391mm) WXGA (1280x800) color , anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio None											
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock											
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones Illuminates the keyboard to improve visibility in low-light conditions											
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.4" models (WxDxH): 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm with optical drive and battery; starting at 5.9 lb (2.7kg) <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell / supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 5.5 hr; <i>9-cell:</i> up to 8.3 hr; <i>9-cell plus Ultrabay battery:</i> up to 9.8 hr											
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)											
PC Card ExpressCard slot Smart Card Read Multicard Reader Ports	One slot (Type I, Type II), CardBus 32-bit None Smart Card Reader 4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™) Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)											
Wireless antenna Mini PCI Express Intel 4965AG ³² WWAN Turbo Memory UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	UltraConnect™ II antenna / on-off switch for all wireless radios Three Mini PCI Express slots / only 802.11 wireless is customer upgradable 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG None None None (uses Half-Mini PCI Express slot) 56K V.92 ⁶ modem in Communications Daughter Card socket Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE Intel Active Management Technology (IAMT)											
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module , Atmel chip, TCG 1.2-compliant Fingerprint reader on palm rest , swipe sensor, supports the security chip											
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available											Supports ThinkVantage® technologies
1GB PC2-5300 DDR2 SODIMM 2GB PC2-5300 DDR2 SODIMM ThinkPad DVD Ultrabay Slim Burner (flat) Serial Hard Drive Ultrabay Slim Adapter (flat) 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 160GB Disk 9.5mm SATA 1.5Gb/s (7200 rpm) 250GB Disk FDE SATA 1.5Gb/s (7200 rpm) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive ThinkPad Convertible Monitor Stand ThinkPad Essential Port Replicator ThinkPad Advanced Mini Dock ThinkPad Advanced Dock Other accessories on O-T61 sheet	40Y7734 40Y7735 41N5643 40Y8725 43N3406 41N5737 43N3410 43N3411 45J5918 41N5565 40Y7620 250510W 250410U 250310U	T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell ThinkPad External Battery Charger ThinkPad 90W AC Adapter 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack ThinkPad Deluxe Expander Case ThinkPad Executive Leather Case ThinkVision® L1700p 17" Monitor ThinkVision L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440p Wide 24" Monitor Other accessories at lenovo.com/accessories	40Y6799 40Y6797 43R9250 40Y7625 40Y7659 41N8460 43R2476 43R2482 43R2478 43R2480 9417HE2 4424HB6 4422HB6 4420HB2	65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378 ThinkPlus™.22 4-year LOR ²⁴ 9x5 NBD 45K6038 ThinkPlus 5-year LOR 9x5 NBD 43R2162 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty								

See footnotes for important warranty information
US model announced May 31, 2007

* Intel Centrino® with vPro™ technology

ThinkPad® T61 15W 6460 (NVIDIA®) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Graphics controller memory	Disk SATA GB ³ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Bat- tery cells	Workhorse (W) Global (G) Avail date
6460-66U	T7300	2.00	1GB	15.4" WSXGA+	128MB	160G 5400	DVD±RW	* Intel 11n ²⁸	1G Turbo	/54	Blue	6	Bus 32 July 07
6460-7EU	T7300	2.00	1GB	15.4" WSXGA+	128MB	160G 5400	DVD±RW	* Intel 11n		/54	Blue	6	XP Pro July 07
6460-01U	T7500	2.20	1GB	15.4" WSXGA+	128MB	100G 7200	Combo	* Intel 11n		/54	Blue	6	XP Pro Dec 07
6460-DWU	T8100	2.10	1GB	15.4" WSXGA+	128MB	160G 5400	DVD±RW	* Intel 11n		/54	Blue	6	XP Pro Jan 08
6460-DTU	T8300	2.40	1GB	15.4" WSXGA+	128MB	100G 7200	DVD±RW	* Intel 11n		/54	Blue	6	XP Pro Jan 08
6460-DUU	T8300	2.40	1GB	15.4" WSXGA+	128MB	160G 5400	DVD±RW	* Intel 11n	Verizon	/54	Blue	9	XP Pro Jan 08
6460-EFU	T8100	2.10	2GB	15.4" WSXGA+	128MB	160G 5400	DVD±RW	* Intel 11n		/54	Blue	6	Bus 32 Apr 08
6460-EGU	T8300	2.40	2GB	15.4" WSXGA+	128MB	160G 5400	DVD±RW	* Intel 11n	Verizon	/54	Blue	9	Bus 32 Apr 08
6460-05U	T8100	2.10	2GB	15.4" WSXGA+	128MB	160G 5400	DVD±RW	* Intel 11n		/54	Blue	6	Bus 32 Educ May 08
6460-06U	T5870	2.00	2GB	15.4" WXGA	128MB	160G 7200	DVD±RW	* Intel 4965AG ³²		4-in-1	Blue	9	Bus 32 Educ Aug 08
6460-07U	T8100	2.10	2GB	15.4" WSXGA+	128MB	160G 5400	DVD±RW	* Intel 11n		/54	Blue	6	XP Pro Sep 08
6460-08U	T9300	2.50	3GB	15.4" WSXGA+	128MB	160G 7200	DVD±RW	* Intel 11n		/54	Blue	6	XP Pro Sep 08

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

Processor	Intel® Core™ 2 Duo processor T5870, T7300, T7500, T8100, T8300, or T9300 with dual-core , 800MHz system bus, T5870: 2MB L2 cache; T7300/T7500: 4MB L2 cache; T8100/T8300: 3MB L2 cache; T9300: 6MB L2 cache										Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ Vista models: Vista Premium logo		
Memory	1GB, 2GB, or 3GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										Preloaded applications¹⁴ (all OSes; only some listed) • Microsoft Office OneNote® 2007 and CD (66U, 05U, 06U models) • Some: Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • Norton Internet Security • PC-Doctor™ (diagnostics) • ThinkPad Utilities • Windows Live™ Toolbar • FingerPrint Software • Microsoft Office 2007 Trial (60-day) • Multimedia Center for Think Offerings (XP Pro DVD±RW models) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW) • Corel WinDVD Creator (XP Pro DVD±RW models)		
Diskette drive	None (use optional USB-based diskette drive)												
EIDE Combo	Some: DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ speed, removable from Ultrabay Slim												
Ultrabay DVD±RW	Some: DVD burner, Slim Burner (41N5643), dual-layer, removable from Ultrabay Slim												
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel												
Serial ATA disk	100GB⁸ (7200 rpm), 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Widescreen display	Some: 15.4" (391mm) WXGA (1280x800) color , anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 15.4" (391mm) WSXGA+ (1680x1050) color , anti-glare, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio												
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0												
Graphics	NVIDIA® Quadro® NVS 140M , PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Apl keys												
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass												
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones												
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	15.4" models (WxDxH): 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm												
Weight ²	with optical drive and battery: starting at 5.9 lb (2.7kg)												
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic												
Battery - type	Lithium Ion 6-cell or 9-cell / supports unique 2nd battery in Ultrabay Slim												
Battery - life ¹⁰	6-cell: up to 3.9 hr; 9-cell: up to 5.9 hr; 9-cell plus Ultrabay battery: up to 7.9 hr												
Chipset	Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerPrint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)												
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit												
ExpressCard slot	Some: [/54] One ExpressCard/34 or ExpressCard/54												
Smart Card Reader	None												
Multicard Reader	Some: 4-in-1 reader (MultiMediaCard, Mem Stick PRO, Sec Digital, xD-Picture Card™)												
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)										Supports ThinkVantage® technologies		
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios												
Mini PCI Express	Three Mini PCI Express slots / only 802.11 wireless is customer upgradable												
Intel 4965AG ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG												
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)												
Verizon ¹⁶	Some: Wireless WAN, Sierra Wireless 1xEV-DO Network Adapter, Mini PCIe adapter, EV-DO Rev. A, service contract reqd with Verizon® Wireless												
1G Turbo	Some: Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator												
Ultra-Wideband	None (uses Half-Mini PCI Express slot)										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175		
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket										ThinkPlus 3-year LOR 9x5 NBD 45K6021		
Bluetooth™	Some: Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator										ThinkPlus 4-year LOR 9x5 NBD 45K6022		
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE										ThinkPlus 5-year LOR 9x5 NBD 45K6024		
Intel AMT	Intel Active Management Technology (IAMT)										ThinkPlus 4-year P&L P/U Depot 45K6023		
Audio support	High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack										ThinkPlus 5-year P&L P/U Depot 45K6025		
Security	Power-on password, hard disk password, supervisor password, security keyhole												
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant												
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip												
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty		
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	90W Slim AC/DC Combo Adapter		41N8460									
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410	Other accessories at lenovo.com/accessories											

See footnotes for important warranty information

* Intel Centrino® with vPro™ technology

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Ⓜ US models announced August 28, 2008; previous models on Jul 10, Dec 6, 2007, Jan 8, Apr 15, May 13, or Aug 1, 2008

(CR3-9) September 2008

Ⓜ US models withdrawn effective December 2007 or May 2008

ThinkPad® T61 15W (NVIDIA Graphics)

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller memory	Disk SATA GB ⁶ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Bat- tery cells	Preload	Workhorse (W) Global (G) Avail Entry (E) date
6457-4UU T7300	2.00	1GB	15.4" WSXGA+	128MB	80GB 5400	Combo	*Intel 4965AG ³²	None	Smart 6	6	Business32	W G July 07
6457-6NU T7300	2.00	1GB	15.4" WSXGA+	128MB	80GB 5400	Combo	*Intel 4965AG	None	Smart 6	6	XP Pro	G July 07
6457-6PU T7500	2.20	1GB	15.4" WSXGA+	128MB	120G 5400	DVD±RW	*Intel 4965AG	None	Smart 9	9	XP Pro	G July 07
6457-4XU T7500	2.20	1GB	15.4" WSXGA+	128MB	120G 5400	DVD±RW	*Intel 4965AG	None	Smart 9	9	Business32	G July 07
6457-6DU T7500	2.20	2GB	15.4" WSXGA+	128MB	100G 7200	DVD±RW	*Intel 11a/b/g ³²	None	Smart 9	9	Ultimate 32	July 07
6457-98U T7500	2.20	1GB	15.4" WSXGA+	128MB	160G 5400	DVD±RW	*Intel 11n	WWAN upg	/54	9	Business64	Mar 08
Processor	Intel® Core™ 2 Duo processor T7300 or T7500 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache								Preloaded operating system ²⁰			
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics</i> : standard memory in 1 socket; 1 socket available								- Some: Microsoft® Windows® XP Professional - Some: Microsoft Windows Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit) ◇ Vista models: Vista Premium logo			
Diskette drive	None (use optional USB-based diskette drive)								Preloaded applications ¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security (90 days of virus definitions) • Diskeeper™ Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • EarthLink Trial (Vista Ultimate models) • Sonic RecordNow and Drive Letter Access (combo, DVD±RW) • Corel® WinDVD® (combo, DVD±RW) • Corel WinDVD Creator (XP Pro DVD±RW models)			
EIDE Combo	Some: DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ speed, removable from Ultrabay Slim											
EIDE DVD±RW	Some: DVD burner, Ultrabay Slim Burner (41N5643), dual-layer, removable Ultrabay One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel											
Ultrabay Slim	80GB ⁸ (5400 rpm), 100GB (7200 rpm), 120GB (5400 rpm), or 160GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											
Serial ATA disk												
Widescreen display	15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio											
Camera	None											
Graphics	NVIDIA® Quadro® NVS 140M, PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock											
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Apl keys											
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass											
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones											
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions											
Dimensions ³	15.4" models (WxDxH): 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm with optical drive and battery: starting at 5.9 lb (2.7kg)											
Weight ²	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic											
Case material	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic											
Battery - type	Lithium Ion 6-cell or 9-cell / supports unique 2nd battery in Ultrabay Slim											
Battery - life ¹⁰	6-cell: up to 3.9 hr; 9-cell: up to 5.9 hr; 9-cell plus Ultrabay battery: up to 7.9 hr											
Chipset	Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)											
PC Card	One slot (Type I, Type II), CardBus 32-bit											
ExpressCard/54	Some: [/54] One slot (ExpressCard/34, ExpressCard/54)											
Smart Card Read	Some: Smart Card Reader											
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)											
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)											
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios											
Mini PCI Express	Three Mini PCI Express slots											
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG											
Intel 4965AG ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG											
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)											
WWAN upg	Some: Wireless WAN upgradable, requires Verizon® EV-DO Rev. A Mini PCIe (43R1818)											
Turbo Memory	None											
UWB	None (uses Half-Mini PCI Express slot)											
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket											
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator											
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE											
Intel AMT	Intel Active Management Technology (IAMT)											
Audio support	High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack											
Security	Power-on password, hard disk password, supervisor password, security keyhole											
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant											
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip											
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ onsite pickup and delivery / service upgrades ²² avail											
1GB PC2-5300 DDR2 SODIMM	40Y7734			T/R/W/SL Series Li-Ion Battery 6-cell			40Y6799			ThinkPlus 4-year LOR 9x5 NBD		
2GB PC2-5300 DDR2 SODIMM	40Y7735			T/R/W/SL Series Li-Ion Battery 9-cell			40Y6797			45K6021		
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643			Advanced Ultrabay Battery II 3-cell			43R9250			45K6022		
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725			ThinkPad 90W AC Adapter			40Y7659			ThinkPlus 5-year LOR 9x5 NBD		
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406			90W Slim AC/DC Combo Adapter			41N8460			45K6024		
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410			ThinkPad Deluxe Expander Case			43R2478			45K6023		
USB 2.0 Super Multi-Burner Drive	41N5565			ThinkPad Executive Leather Case			43R2480			ThinkPlus 5-year P&L P/U Depot		
USB 2.0 Lenovo Enhanced Port Replicator	43R8770			ThinkVision® L1940p Wide 19" Monitor			4424HB6			45K6025		
ThinkPad Advanced Mini Dock	250410U			ThinkVision L2240p Wide 22" Monitor			4422HB6			Post-warranty annual maintenance agreements at		
ThinkPad Advanced Dock	250310U			ThinkVision L2440p Wide 24" Monitor			4420HB2			lenovo.com/thinkplus/warranty		
Other accessories on O-T61 sheet												

See footnotes for important warranty information

US model announced March 25, 2008; previous models on July 10, 2007

US models withdrawn effective May 2008

* Intel Centrino® processor technology

* Intel Centrino with vPro™ technology

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Type-model	Proc- essor	GHz	Memory	Wide- screen display	Graphics controller memory	Disk SATA GB ³ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Bat- tery Blue- tooth cells	Workhorse (W) Global (G) Avail date
6458-4UU	T7300	2.00	1GB	15.4" WSXGA+	128MB	80GB 5400	Combo	*Intel 4965AG ³²	None	Smart	Blue 6	Business32 W G P July 07
6458-6QU	T7500	2.20	1GB	15.4" WSXGA+	128MB	120GB 5400	DVD±RW	*Intel 4965AG	None	Smart	Blue 9	Business32 W G P July 07

• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning	<i>Premiere performance; two spindles</i>											
Processor	Intel® Core™ 2 Duo processor T7300 or T7500 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache											
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											
Diskette drive	None (use optional USB-based diskette drive)											
EIDE Combo	<i>Some:</i> DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ speed, removable from Ultrabay Slim											
EIDE DVD±RW	<i>Some:</i> DVD burner, Super Multi-Burner (40Y8623) dual-layer, removable Ultrabay Slim											
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel											
Serial ATA disk	80GB⁸ (5400 rpm) or 120GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											
Widescreen display	15.4" (391mm) WSXGA+ (1680x1050) color , anti-glare, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio											
Camera	None											
Graphics	NVIDIA® Quadro® NVS 140M , PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock											
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys											
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass											
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones											
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions											
Dimensions ³	<i>15.4" models (WxDxH):</i> 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm											
Weight ²	with optical drive and battery: starting at 5.9 lb (2.7kg)											
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic											
Battery - type	Lithium Ion 6-cell or 9-cell / supports unique 2nd battery in Ultrabay Slim											
Battery - life ¹⁰	<i>6-cell:</i> up to 3.9 hr; <i>9-cell:</i> up to 5.9 hr; <i>9-cell plus Ultrabay battery:</i> up to 7.9 hr											
Chipset	Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)											
PC Card	One slot (Type I, Type II), CardBus 32-bit											
ExpressCard slot	None											
Smart Card Reader	Smart Card Reader											
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)											
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)											
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios											
Mini PCI Express	Three Mini PCI Express slots / only 802.11 wireless is customer upgradable											
Intel 4965AG ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG											
WWAN	None											
Turbo Memory	None											
UWB	None (uses Half-Mini PCI Express slot)											
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket											
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator											
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE											
Intel AMT	Intel Active Management Technology (IAMT)											
Audio support	High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack											
Security	Power-on password, hard disk password, supervisor password, security keyhole											
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant											
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip											
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available											
1GB PC2-5300 DDR2 SODIMM	40Y7734	T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799									
2GB PC2-5300 DDR2 SODIMM	40Y7735	T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797									
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643	Advanced Ultrabay Battery II 3-cell	43R9250									
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkPad 90W AC Adapter	40Y7659									
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	90W Slim AC/DC Combo Adapter	41N8460									
USB 2.0 Security Memory Key 4GB	41U5120	ThinkPad Business Topload Case	43R2476									
USB 2.0 Super Multi-Burner Drive	41N5565	ThinkPad Business Backpack	43R2482									
USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ThinkPad Deluxe Expander Case	43R2478									
ThinkPad Convertible Monitor Stand	40Y7620	ThinkPad Executive Leather Case	43R2480									
ThinkPad Essential Port Replicator	250510W	ThinkVision® L1940p Wide 19" Monitor	4424HB6									
ThinkPad Advanced Mini Dock	250410U	ThinkVision L2240p Wide 22" Monitor	4422HB6									
ThinkPad Advanced Dock	250310U	ThinkVision L2440x Wide 24" Monitor	4421HB2									
Other accessories on O-T61 sheet	Other accessories at lenovo.com/accessories											

Preloaded operating system²⁰
 - Microsoft® Windows® Vista® Business Edition (32-bit)
 ♦ Vista Premium logo

Preloaded applications¹⁴

- Rescue and Recovery™
- Access Connections™
- Client Security Solution™
- ThinkVantage Productivity Center
- ThinkVantage System Update
- System Migration Assistant
- Norton Internet Security (90 days of virus definitions)
- Diskeeper™ Home
- PC-Doctor™ (diagnostics)
- ThinkPad Utilities (Power Manager and Presentation Director)
- Adobe® Reader
- Windows Live™ Toolbar
- Windows Live Search
- Picasa from Google
- Fingerprint Software (fingerprint models)
- Microsoft Office 2007 Trial (60-day)
- EarthLink Trial (Vista Ultimate models)
- Sonic RecordNow and Drive Letter Access (combo)
- Corel® WinDVD® (combo)

Supports ThinkVantage® technologies

90-watt (NVIDIA) AC adapter
 ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium)
 ENERGY STAR® 4.0-compliant
 RoHS-compliant
 International Warranty Service¹⁷
 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378

ThinkPlus™.22 4-year LOR²⁴ 9x5 NBD 45K6038
 ThinkPlus 5-year LOR 9x5 NBD 43R2162
 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information
 US models announced July 10, 2007

* Intel Centrino® with vPro™ technology

ThinkPad® T61 15W 6457 (NVIDIA) - Education (EasyServ)

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller memory	Disk SATA GB ⁵ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo Card slot	Bat- tery cells	Educ pre- load	Limited warranty ¹²	Vista preload	Avail date		
6457-4JU	T7300	2.00	1GB	15.4" WSXGA+	128MB	100G	7200	DVD±RW	11a/b/g ³²	None	/54	9	HE	EasyServ Business32	July07
<p>• This model has an EasyServ™¹⁹ depot repair service 3-year limited warranty</p> <p>Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>															
Positioning Processor	<p><i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T7300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology¹, Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus; and 4MB shared L2 cache</p>										<p>Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ⇨ Vista Premium logo</p>				
Memory	<p>1GB std / 4GB max⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available</p>										<p>Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • (HE): Higher education software - VitalSource Library College Edition - Adobe® Instructor Resource Center - Adobe Photoshop Elements 5 (and CD) - Adobe Premier Elements 3 (and DVD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskkeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW)</p>				
Diskette drive EIDE DVD±RW Ultrabay Slim Serial ATA disk	<p>None (use optional USB-based diskette drive) DVD burner, Ultrabay Slim Burner (41N5643), dual-layer, removable from Ultrabay Slim One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 100GB⁸ (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>														
Widescreen display Camera	<p>15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio None</p>														
Graphics	<p>NVIDIA® Quadro® NVS 140M, PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock</p>														
Keyboard TrackPoint® Touch pad ThinkLight™	<p>89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Apl keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones Illuminates the keyboard to improve visibility in low-light conditions</p>														
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	<p>15.4" models (WxDxH): 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm with optical drive and battery: starting at 5.9 lb (2.7kg) <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 9-cell / supports unique 2nd battery in Ultrabay Slim 9-cell: up to 5.9 hr; 9-cell plus Ultrabay battery: up to 7.9 hr</p>														
Chipset	<p>Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)</p>														
PC Card ExpressCard/54 Smart Card Read Multicard Reader Ports	<p>One slot (Type I, Type II), CardBus 32-bit One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™) Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)</p>														
Wireless antenna Mini PCI Express 11a/b/g ³² WWAN Turbo Memory UWB	<p>UltraConnect™ II antenna / on-off switch for all wireless radios Three Mini PCI Express slots / only 802.11 wireless is customer upgradable 11a/b/g wireless⁴, ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX None None None (uses Half-Mini PCI Express slot)</p>														
Modem Bluetooth™ Ethernet Intel AMT Audio support	<p>56K V.92⁶ modem in Communications Daughter Card socket Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE Intel Active Management Technology (IAMT) High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack</p>										<p>Supports ThinkVantage® technologies</p>				
Security Security chip Fingerprint reader	<p>Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, Atmel chip, TCG 1.2-compliant Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader on palm rest, swipe sensor, supports the security chip</p>										<p>90-watt (NVIDIA) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>				
Limited warranty ¹²	<p>3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available</p>														
1GB PC2-5300 DDR2 SODIMM 2GB PC2-5300 DDR2 SODIMM ThinkPad DVD Ultrabay Slim Burner (flat) Serial Hard Drive Ultrabay Slim Adapter (flat) 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 250GB Disk FDE SATA 1.5Gb/s (7200 rpm) 250GB Disk 9.5mm SATA 1.5Gb/s (5400 rpm) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive ThinkPad Essential Port Replicator ThinkPad Advanced Mini Dock ThinkPad Advanced Dock Other accessories on O-T61 sheet	40Y7734 40Y7735 41N5643 40Y8725 43N3406 43N3410 43R8152 43N3411 45J5918 41N5565 250510W 250410U 250310U	T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell ThinkPad External Battery Charger ThinkPad 90W AC Adapter 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack ThinkPad Deluxe Expander Case ThinkVision® L1700p 17" Monitor ThinkVision L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	40Y6799 40Y6797 43R9250 40Y7625 40Y7659 41N8460 43R2476 43R2482 43R2478 9417HE2 4424HB6 4422HB6 4421HB2	ThinkPlus™. ²² 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty											

See footnotes for important warranty information
 US model announced on July 10, 2007

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 (CR3-7) February 2008

ThinkPad® T61 15W (NVIDIA Graphics) - Education (Onsite)

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Graphics controller memory	Disk SATA GB ³ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo Card slot	Bat- tery cells	Educ pre- load	Limited warranty ¹²	Vista preload	Avail date
6458-4JU	T7300	2.00 1GB	15.4" WSXGA+	128MB	100G 7200	DVD±RW	11a/b/g ³²	None /54	9	HE	Onsite	Business32	July 07
<p>• This model has a limited onsite service²⁴ 3-year limited warranty Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>													
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T7300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep [®] technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista™ Business Edition (32-bit) ✦ Vista Premium logo		
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • (HE): Higher education software - VitalSource Library College Edition - Adobe® Instructor Resource Center - Adobe Photoshop Elements 5 (and CD) - Adobe Premier Elements 3 (and DVD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security (90 days of virus definitions) • Diskeeper™ Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW)		
Diskette drive	None (use optional USB-based diskette drive)												
EIDE DVD±RW	DVD burner, Ultrabay Slim Burner (41N5643), dual-layer, removable from Ultrabay Slim												
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel												
Serial ATA disk	100GB⁸ (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Widescreen display	15.4" (391mm) WSXGA+ (1680x1050) color , anti-glare, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio												
Camera	None												
Graphics	NVIDIA® Quadro® NVS 140M , PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys												
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass												
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones												
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	<i>15.4" models (WxDxH):</i> 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm with optical drive and battery; starting at 5.9 lb (2.7kg)												
Weight ²													
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic												
Battery - type	Lithium Ion 9-cell / supports unique 2nd battery in Ultrabay Slim												
Battery - life ¹⁰	9-cell: up to 5.9 hr; 9-cell plus Ultrabay battery: up to 7.9 hr												
Chipset	Mobile Intel® PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoch® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)												
PC Card	One slot (Type I, Type II), CardBus 32-bit												
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)												
Smart Card Read	None												
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)												
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios												
Mini PCI Express	Three Mini PCI Express slots / only 802.11 wireless is customer upgradable												
11a/b/g ³²	11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX												
WWAN	None												
Turbo Memory	None												
UWB	None (uses Half-Mini PCI Express slot)												
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket												
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator												
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE												
Intel AMT	Intel Active Management Technology (IAMT)												
Audio support	High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack												
Security	Power-on password, hard disk password, supervisor password, security keyhole												
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant												
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip												
Limited warranty ¹²	3-years¹²/1-year battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time												
1GB PC2-5300 DDR2 SODIMM	40Y7734			T/R/W/SL Series Li-Ion Battery 6-cell			40Y6799			Supports ThinkVantage® technologies			
2GB PC2-5300 DDR2 SODIMM	40Y7735			T/R/W/SL Series Li-Ion Battery 9-cell			40Y6797			90-watt (NVIDIA) AC adapter			
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725			Advanced Ultrabay Battery II 3-cell			43R9250			ThinkPad Roll Cage and Top Cover			
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406			ThinkPad External Battery Charger			40Y7625			Roll Cage (one-piece magnesium)			
250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410			ThinkPad 90W AC Adapter			40Y7659			ENERGY STAR® 4.0-compliant			
250GB Disk 9.5mm SATA 1.5Gb/s (5400 rpm)	43R8152			ThinkPad Business Topload Case			41N8460			RoHS-compliant			
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411			ThinkPad Business Backpack			43R2476			International Warranty Service ¹⁷			
USB 2.0 Ultra Secure Memory Key 8GB	45J5918			ThinkPad Deluxe Expander Case			43R2478			24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
USB 2.0 Super Multi-Burner Drive	41N5565			ThinkVision® L1700p 17" Monitor			9417HE2						
USB 2.0 Lenovo Enhanced Port Replicator	43R8770			ThinkVision L1940p Wide 19" Monitor			4424HB6						
ThinkPad Essential Port Replicator	250510W			ThinkVision L2240p Wide 22" Monitor			4422HB6						
ThinkPad Advanced Mini Dock	250410U			ThinkVision L2440x Wide 24" Monitor			4421HB2						
ThinkPad Advanced Dock	250310U			Other accessories at lenovo.com/accessories						Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
Other accessories on O-T61 sheet													

See footnotes for important warranty information
 US model announced July 10, 2007

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ThinkPad® T61u 15W 6463 (GMA) - Education (EasyServ)

Personal Systems Reference (PSREF)

Proc- Type-model	Processor GHz	Memory	Wide- screen display	Graphics controller	Disk SATA GB ⁵	rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Finger print reader	Bat- tery cells	Limited warranty ¹²	Vista preload	Avail date
6463-9RU	T8300	2.40	1GB	15.4" WXGA	GMA 80G	5400	Combo	11a/b/g ³²	None	/54	Blue	Finger	9	EasyServ	Business32	Feb 08
6463-9SU	T9300	2.50	1GB	15.4" WXGA	GMA 100G	7200	DVD±RW	11a/b/g	None	/54	Blue	Finger	9	EasyServ	Business32	Feb 08
6463-05U	T9300	2.50	2GB	15.4" WXGA	GMA 160G	7200	DVD±RW	11a/b/g	None	/54	Blue	Finger	9	EasyServ	Business32	Apr 08

Italic MTM: not a base model for building a custom model

• **These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty**
 Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T8300 or T9300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus; T8300: 3MB L2 cache; T9300: 6MB L2 cache	Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ⇨ Vista Basic logo Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Some: Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (Combo, DVD±RW) • Corel® WinDVD® (Combo, DVD±RW)
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available	
Diskette drive EIDE Combo EIDE DVD±RW Ultrabay Slim Serial ATA disk	None (use optional USB-based diskette drive) <i>Some:</i> DVD-ROM/CD-RW, 24X/24X/8X ²¹ speed, removable from Ultrabay Slim <i>Some:</i> DVD burner, Slim Burner (41N5643), dual-layer, removable from Ultrabay Slim One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 80GB⁸ (5400 rpm), 100GB (7200 rpm), or 160GB (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display Camera	15.4" (391mm) WXGA (1280x800) color , anti-glare, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio None	
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock	
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	<i>15.4" models (WxDxH):</i> 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm with optical drive and battery; starting at 5.9 lb (2.7kg) <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 9-cell / supports unique 2nd battery in Ultrabay Slim <i>9-cell:</i> up to 8.3 hr; <i>9-cell plus Ultrabay battery:</i> up to 9.8 hr	
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)	
PC Card ExpressCard/54 Smart Card Read Multicard Reader Ports	One slot (Type I, Type II), CardBus 32-bit One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MultiMediaCard, Mem Stick PRO, Secure Digital, xD-Picture Card™) Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Wireless antenna Mini PCI Express 11a/b/g ³² WWAN Turbo Memory UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	UltraConnect™ II antenna / on-off switch for all wireless radios Three Mini PCI Express slots / only 802.11 wireless is customer upgradable 11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX None None None (uses Half-Mini PCI Express slot) 56K V.92 ⁵ modem in Communications Daughter Card socket <i>Some:</i> Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE Intel Active Management Technology (IAMT) High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module , Atmel chip, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest , swipe sensor, supports the security chip	
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available	
1GB PC2-5300 DDR2 SODIMM 2GB PC2-5300 DDR2 SODIMM ThinkPad DVD Ultrabay Slim Burner (flat) 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 250GB Disk FDE SATA 1.5Gb/s (7200 rpm) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Security Memory Key 4GB USB 2.0 Lenovo Enhanced Port Replicator ThinkPad Convertible Monitor Stand ThinkPad Advanced Dock Other accessories on O-T61 sheet	40Y7734 40Y7735 41N5643 43N3406 43N3410 43N3411 41U5120 43R8770 40Y7620 250310U	
T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell ThinkPad External Battery Charger ThinkPad 90W AC Adapter 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack ThinkVision® L2240p Wide 22" Monitor ThinkVision L2440p Wide 24" Monitor Other accessories at lenovo.com/accessories	40Y6799 40Y6797 43R9250 40Y7625 40Y7659 41N8460 43R2476 43R2482 4422HB6 4420HB2	
ThinkPlus™ ²² 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty	Supports ThinkVantage® technologies 65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378	

See footnotes for important warranty information

Ⓜ US model announced April 10, 2008; previous models on February 19, 2008

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(CR4-2) April 2008

ThinkPad® T61u 15W 6457 (NVIDIA) - Education (EasyServ)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Graphics controller memory	Disk SATA GB ⁵ rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo slot	Blue- tooth	Finger print reader	Bat- tery cells	Limited warranty ¹²	Vista preload	Avail date	
6457-DSU	T9300	2.50	1GB	15.4"	WSXGA+	128MB	100G	7200	DVD±RW	11a/b/g ³²	None	/54	Blue	Fing 9	EasyServ Business32	Feb 08
6457-05U	T9300	2.50	2GB	15.4"	WSXGA+	128MB	160G	7200	DVD±RW	11a/b/g	None	/54	Blue	Fing 9	EasyServ Business32	Apr 08
<i>Italic MTM: not a base model for building a custom model</i>																
<p>• These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty</p> <p>Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>																
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T9300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 6MB shared L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ◇ Vista Premium logo					
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW)					
Diskette drive EIDE DVD±RW Ultrabay Slim Serial ATA disk	None (use optional USB-based diskette drive) DVD burner, Ultrabay Slim Burner (41N5643), dual-layer, removable from Ultrabay Slim One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 100GB⁸ (7200 rpm) or 160GB⁸ (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™															
Widescreen display Camera	15.4" (391mm) WSXGA+ (1680x1050) color , anti-glare, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio None															
Graphics	NVIDIA® Quadro® NVS 140M , PCI Express® x16, 128MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock															
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones Illuminates the keyboard to improve visibility in low-light conditions															
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.4" models (WxDxH): 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm with optical drive and battery: starting at 5.9 lb (2.7kg) <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 9-cell / supports unique 2nd battery in Ultrabay Slim <i>9-cell:</i> up to 5.9 hr; <i>9-cell plus Ultrabay battery:</i> up to 7.9 hr															
Chipset	Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM) One slot (Type I, Type II), CardBus 32-bit One slot (ExpressCard/34, ExpressCard/54)															
PC Card ExpressCard/54 Smart Card Read Multicard Reader Ports	One slot (Type I, Type II), CardBus 32-bit One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™) Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)															
Wireless antenna Mini PCI Express 11a/b/g ³² WWAN Turbo Memory UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	UltraConnect™ II antenna / on-off switch for all wireless radios Three Mini PCI Express slots / only 802.11 wireless is customer upgradable 11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX None None None (uses Half-Mini PCI Express slot) 56K V.92 ⁶ modem in Communications Daughter Card socket Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE Intel Active Management Technology (IAMT) High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole															
Security Security chip Fingerprint reader	Trusted Platform Module , Atmel chip, TCG 1.2-compliant Fingerprint reader on palm rest , swipe sensor, supports the security chip															
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available															
1GB PC2-5300 DDR2 SODIMM 2GB PC2-5300 DDR2 SODIMM ThinkPad DVD Ultrabay Slim Burner (flat) Serial Hard Drive Ultrabay Slim Adapter (flat) 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 250GB Disk FDE SATA 1.5Gb/s (7200 rpm) 250GB Disk 9.5mm SATA 1.5Gb/s (5400 rpm) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive ThinkPad Convertible Monitor Stand ThinkPad Advanced Mini Dock ThinkPad Advanced Dock Other accessories on O-T61 sheet	40Y7734 40Y7735 41N5643 40Y8725 43N3406 43N3410 43R8152 43N3411 45J5918 41N5565 40Y7620 250410U 250310U	T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell ThinkPad External Battery Charger ThinkPad 90W AC Adapter 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack ThinkPad Deluxe Expander Case ThinkVision® L1700p 17" Monitor ThinkVision L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440p Wide 24" Monitor Other accessories at lenovo.com/accessories	40Y6799 40Y6797 43R9250 40Y7625 40Y7659 41N8460 43R2476 43R2482 43R2478 9417HE2 4424HB6 4422HB6 4420HB2	ThinkPlus™. ²² 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty												

See footnotes for important warranty information

US model announced on April 10, 2008; previous model on February 19, 2008

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(CR4-1) April 2008

ThinkPad® T61p 15W 6460 (NVIDIA) - TopSeller

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Graphics controller memory	Disk SATA GB ² rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Card slot	Blue- tooth	Bat- tery cells	Workhorse (W) Global (G) Avail Entry (E) date
6460-67U	T7500	2.20	2GB	15.4" WUXGA	256MB	100G 7200	DVD±RW	* Intel 11n ²⁸		/54	Blue	9	Ultimate 32 No July 07
6460-8VU	T7700	2.40	2GB	15.4" WUXGA	256MB	160G 7200	DVD±RW	* Intel 11n		/54	Blue	9	XP Pro No Oct 07
6460-8WU	T7700	2.40	2GB	15.4" WUXGA	256MB	160G 7200	DVD±RW	* Intel 11n	1G Turbo	/54	Blue	9	Business32 No Oct 07
6460-8XU	T7700	2.40	4GB	15.4" WUXGA	256MB	200G FDE	DVD±RW	* Intel 11n		/54	Blue	9	Business64 No Oct 07
6460-DVU	T9300	2.50	2GB	15.4" WSXGA+	256MB	160G 7200	DVD±RW	* Intel 11n		/54	Blue	9	XP Pro No Jan 08
<ul style="list-style-type: none"> • These small and medium business (SMB) models are part of the US TopSeller™ Program • These models have a 3-year limited warranty¹² 													
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T7500, T7700, or T9300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, T7500/T7700: 4MB shared L2 cache; T9300: 6MB shared L2 cache										Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Ultimate Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) ♦ Vista models: Vista Premium logo		
Memory	2GB or 4GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available										Preloaded applications¹⁴ (all OSes) • Microsoft Office OneNote® 2007 and CD (Vista models) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security (90 days of virus definitions) • Diskeeper™ Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Multimedia Center for Think Offerings (XP Pro DVD±RW models) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW) • Corel WinDVD Creator (XP Pro DVD±RW models)		
Diskette drive	None (use optional USB-based diskette drive)												
EIDE DVD±RW	DVD burner, Ultrabay Slim Burner (41N5643), dual-layer, removable from Ultrabay Slim												
Ultrabay Slim	One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel												
Serial ATA disk	100GB⁸ (7200 rpm), 160GB (7200 rpm), or 200GB Full Disk Encryption [FDE] (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Widescreen display	<i>Some:</i> 15.4" (391mm) WSXGA+ (1680x1050) color , anti-glare, 200 nits, 16:10, 500:1 <i>Some:</i> 15.4" (391mm) WUXGA (1920x1200) color , anti-glare, 175 nits, 16:10, 500:1												
Camera	None												
Graphics	NVIDIA® Quadro® FX 570M , PCI Express® x16, 256MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys												
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass												
Touch pad	UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones												
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	15.4" models (WxDxH): 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm												
Weight ²	with optical drive and battery: starting at 5.9 lb (2.7kg)												
Case material	Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic												
Battery - type	Lithium Ion 9-cell / supports unique 2nd battery in Ultrabay Slim												
Battery - life ¹⁰	9-cell: up to 5.9 hr; 9-cell plus Ultrabay battery: up to 7.9 hr												
Chipset	Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoch® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)												
PC Card	One slot (Type I, Type II), CardBus 32-bit												
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)												
Smart Card Read	None												
Multicard Reader	4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™)												
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Wireless antenna	UltraConnect™ II antenna / on-off switch for all wireless radios												
Mini PCI Express	Three Mini PCI Express slots / only 802.11 wireless is customer upgradable												
Intel 11n ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)												
WWAN	None										Supports ThinkVantage® technologies		
1G Turbo	<i>Some:</i> Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator												
UWB	None (uses Half-Mini PCI Express slot)										90-watt (NVIDIA) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant		
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket										International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378		
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator												
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE												
Intel AMT	Intel Active Management Technology (IAMT)												
Audio support	High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack												
Security	Power-on password, hard disk password, supervisor password, security keyhole												
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant												
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip												
Limited warranty ¹² 3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available													
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799	2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797	Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725	Advanced Ultrabay Battery II 3-cell	43R9250	ThinkPad 90W AC Adapter	40Y7659
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkPad 90W AC Adapter	40Y7659	250GB Disk FDE SATA 1.5Gb/s (7200 rpm)	43N3410	90W Slim AC/DC Combo Adapter	41N8460	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ThinkPad Deluxe Expander Case	43R2478	ThinkPad Executive Leather Case	43R2480
USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ThinkPad Essential Port Replicator	250510W	ThinkPad Advanced Mini Dock	250410U	ThinkVision® L1940p Wide 19" Monitor	4424HB6	ThinkPad Advanced Dock	250310U	ThinkVision L2240p Wide 22" Monitor	4422HB6	ThinkVision L2440x Wide 24" Monitor	4421HB2
Other accessories on O-T61 sheet		Other accessories at lenovo.com/accessories											

See footnotes for important warranty information

* Intel Centrino® with vPro™ technology

ES: US model announced January 8, 2008; previous models on July 10 or October 30, 2007

ThinkPad® T61p 15W 6457 (NVIDIA) - Education (EasyServ)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Graphics controller memory	Disk SATA GB ⁸	5400 rpm	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB wireless	Card slot	Blue- tooth	Finger print reader	Bat- tery cells	Vista preload	Avail date
6457-06U	T9300	2.50	2GB	15.4" WSXGA+	256MB	250G	5400	DVD±RW	11a/b/g ³²	None	UWB	/54	Blue	Fing	9	Business32	Apr 08
<i>Italic MTM: not a base model for building a custom model</i>																	
<p>• This model has an EasyServ™.19 depot repair service 3-year limited warranty</p> <p>Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>																	
Positioning Processor	<p><i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T9300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology¹, Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 6MB shared L2 cache</p>													<p>Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ♦ Vista Premium logo</p>			
Memory	<p>2GB std / 4GB max⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available</p>													<p>Preloaded applications¹⁴ • Microsoft Office OneNote® 2007 (and CD) • Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW)</p>			
Diskette drive EIDE DVD±RW Ultrabay Slim Serial ATA disk	<p>None (use optional USB-based diskette drive) DVD burner, Ultrabay Slim Burner (41N5643), dual-layer, removable from Ultrabay Slim One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 250GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, 9.5mm high bay, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>																
Widescreen display Camera	<p>15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio None</p>																
Graphics	<p>NVIDIA® Quadro® FX 570M, PCI Express® x16, 256MB memory, TurboCache, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock</p>																
Keyboard TrackPoint® Touch pad ThinkLight™	<p>89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™ multi-pointing system, touch pad below keyboard, Tap Zones Illuminates the keyboard to improve visibility in low-light conditions</p>																
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	<p><i>15.4" models (WxDxH):</i> 14.1" x 10.0" x 1.2–1.4"; 358.4mm x 255mm x 29.8–34.5mm with optical drive and battery: starting at 5.9 lb (2.7kg) <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 9-cell / supports unique 2nd battery in Ultrabay Slim 9-cell: up to 5.9 hr; 9-cell plus Ultrabay battery: up to 7.9 hr</p>																
Chipset	<p>Mobile Intel PM965 Express Chipset (Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (WPCN385 Super I/O, Atmel® 97SC3203 TPM)</p>																
PC Card ExpressCard/54 Smart Card Read Multicard Reader Ports	<p>One slot (Type I, Type II), CardBus 32-bit One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MultiMediaCard, Memory Stick® PRO™, Secure Digital, xD-Picture Card™) Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)</p>																
Wireless antenna Mini PCI Express 11a/b/g ³² WWAN Turbo Memory UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	<p>UltraConnect™ II antenna / on-off switch for all wireless radios Three Mini PCI Express slots / only 802.11 wireless is customer upgradable 11a/b/g wireless⁴, ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX None None Wireless USB based on Ultra-Wideband (UWB), Half-Mini PCIe adapter 56K V.92⁶ modem in Communications Daughter Card socket Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE Intel Active Management Technology (IAMT) High Definition (HD) Audio, AD1984JCP codec / stereo speakers, 1 watt / volume up, down, mute buttons / internal microphone, microphone input jack, headphone jack</p>																
Security Security chip Fingerprint reader	<p>Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, Atmel chip, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip</p>													<p>Supports ThinkVantage® technologies</p>			
Limited warranty ¹²	<p>3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades²² available</p>													<p>90-watt (NVIDIA) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>			
1GB PC2-5300 DDR2 SODIMM 2GB PC2-5300 DDR2 SODIMM ThinkPad DVD Ultrabay Slim Burner (flat) Serial Hard Drive Ultrabay Slim Adapter (flat) 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 250GB Disk FDE SATA 1.5Gb/s (7200 rpm) 250GB Disk 9.5mm SATA 1.5Gb/s (5400 rpm) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Security Memory Key 4GB USB 2.0 Super Multi-Burner Drive ThinkPad Convertible Monitor Stand ThinkPad Advanced Mini Dock ThinkPad Advanced Dock Other accessories on O-T61 sheet	40Y7734 40Y7735 41N5643 40Y8725 43N3406 43N3410 43R8152 43N3411 41U5120 41N5565 40Y7620 250410U 250310U	T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell ThinkPad External Battery Charger ThinkPad 90W AC Adapter 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack ThinkPad Deluxe Expander Case ThinkVision® L1700p 17" Monitor ThinkVision L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	40Y6799 40Y6797 43R9250 40Y7625 40Y7659 41N8460 43R2476 43R2482 43R2478 9417HE2 4424HB6 4422HB6 4421HB2	ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty													

See footnotes for important warranty information
 US model announced on April 10, 2008

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Partial list of accessories supported on:

- ThinkPad T61 originally announced on May 31, 2007
- ThinkPad T61 14W originally announced on May 9, 2007
- ThinkPad T61 15W originally announced on May 31, 2007

Memory

512MB PC2-5300 DDR2 SODIMM	40Y7733	ann 01/05/06
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	ann 03/25/08
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann 01/05/06
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	ann 03/25/08
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann 11/28/06

Ultrabay Slim 9.5mm (best to use flat bezel options)

Serial/Parallel Port Bay Adapter (flat bezel)	40Y8121	ann 01/31/06
Serial Hard Drive Ultrabay Slim Adapter (flat)	40Y8725	ann 09/20/05
ThinkPad DVD Ultrabay Slim Burner (flat)	41N5643	ann 05/31/07

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann 03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann 10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann 01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann 01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann 08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann 01/20/09

⁴¹ Can be used as the main HDD or with ThinkPadSerial ATA Hard Drive Ultrabay Slim Adapter 40Y8725
in the Ultrabay or in the ThinkPad Advanced Dock 250310U.**Only 14W (14.1" widescreen) and 15W (15.4" widescreen) models:**

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ann 08/26/08
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 Security Memory Key 2GB	41U5119	ann 07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann 07/17/07
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 Portable Diskette Drive	05K9276	ann 06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann 01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann 09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07

Wireless WAN (Mini PCI Express)Only 14W 7663-3SU, 15W 6457-98U, and 8895-6WU models:
Verizon WWAN EV-DO Rev. A Mini PCIe 43R1818 ann 03/04/08**ThinkPad Expansion**

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann 02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann 09/20/05
ThinkPad Essential Port Replicator	250510W	ann 09/20/05
ThinkPad Advanced Mini Dock	250410U	ann 09/20/05
ThinkPad Advanced Dock	250310U	ann 09/20/05

Keyboard

TrackPoint Cap Collection	73P2698	ann 12/16/03
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04
USB Keyboard with UltraNav	31P8950	ann 01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann 04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann 05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann 08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann 06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann 11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann 01/22/08

Security

Kensington® Cable Lock from Lenovo	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
PC Card Gemplus Smart Card Reader	41N3004	ann 12/13/05
ExpressCard Gemplus Smart Card Reader	41N3043	ann 06/27/06

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann 06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06

Batteries

Only 14W models (14.1" widescreen):

T/R 14W Standard Battery 4-cell	41U3196	ann 05/09/07
T/R 14W Enhanced Battery 6-cell	41U3198	ann 05/09/07
T/R 14W High Capacity Battery 9-cell	43R2499	ann 03/04/08

Only 14 standard (14.1") and 15W models (15.4" widescreen):

T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799	ann 01/05/06
T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797	ann 09/20/05

All models:

Advanced Ultrabay Battery II 3-cell⁴³ 43R9250 ann 04/22/08⁴³ Used in Ultrabay Slim bay.ThinkPad External Battery Charger⁴⁴ 40Y7625 ann 09/20/05⁴⁴ Requires the ThinkPad 90W AC Adapter

40Y7659 (adapter provided with some systems).

ThinkPad 65W AC Adapter⁴⁵ 40Y7696⁴⁵ Only compatible with the 945GM and GM965 chipset models.

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

ThinkPad 90W Slim AC/DC Combo Adapter 41N8460 ann 11/27/07

Carrying Cases

Up to 14.1" widescreen models:

ThinkPad Expander Case	43R9118	ann 06/24/08
ThinkPad Women's Microfiber Tote	22P8855	
ThinkPad Women's Leather Trim Tote	22P8856	
ThinkPad Convertible Carrying Case	22P8860	
ThinkPad Women's Executive Leather Tote	22P8857	
Women's Executive Red Leather Tote	22P8858	

Up to 15.4" widescreen models:

Lenovo Carrying Case - Messenger Max	41U5253	ann 05/01/07
Lenovo Carr Case - Performance BackPack	41U5254	ann 05/01/07
Lenovo Standard Case	45K1697	ann 11/25/08
Lenovo Standard Backpack	45K1698	ann 11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann 02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann 08/12/08
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Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann 09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann 09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann 04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann 09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann 09/17/08

Monitor Accessories⁴⁶

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann 12/29/03
ThinkPad Convertible Monitor Stand	40Y7620	ann 01/05/06
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.More information at www.lenovo.com/support/monitoraccessoriesOther accessories at www.lenovo.com/accessoriesAccessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad®



Lenovo ThinkPad T400



Lenovo ThinkPad T400



USB 2.0 Portable Secure Hard Disk
160GB 43R2018
320GB 43R2019



Lenovo ThinkPad T400



Lenovo ThinkPad T400



Lenovo ThinkPad T400

ThinkPad® T400 6473 (GMA) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Integrated graphics	Disk SATA GB ³ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe Finger or Turbo reader	Blue- tooth	Preload	Avail date
6473-P1U	P8400	2.26	2GB	14.1" WXGA	None	GMA	160G 5400	DVD±RW	Intel 5100	WWAN upg	None	Finger	None	XP Pro Sep 08

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

Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor P8400 with dual-core, Intel HD Boost, 1066MHz system bus; and 3MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® XP Professional with Vista® COA ↳ Vista Premium logo			
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)			
SATA DVD±RW Ultrabay Slim SATA disk	DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™													
Widescreen display Camera	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio None													
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; <i>Maximum external resolution:</i> 2048x1536@75Hz													
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	<i>6-cell 14.1W" (WxDxH):</i> 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm <i>6-cell:</i> starting at 5.0 lb (2.3kg) <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 6.5 hr; <i>6-cell plus Ultrabay battery:</i> up to 8.0 hr; <i>9-cell:</i> up to 9.8 hr													
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)													
ExpressCard/54 PC Card Smart Card Read Multicard Reader Ports	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None None Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)													
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None 56K V.92 ⁶ modem None Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 None High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip										Supports ThinkVantage® technologies			
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available										65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	T/R 14W Standard Battery 4-cell	41U3196	ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD	41C9175									
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	T/R 14W Enhanced Battery 6-cell	41U3198	ThinkPlus 3-year LOR 9x5 NBD	45K6021									
Blu-ray Burner Ultrabay Slim	SATA 1.5Gb/s 43N3215	T/R 14W High Capacity Battery 9-cell	43R2499	ThinkPlus 4-year LOR 9x5 NBD	45K6022									
Serial ATA Hard Drive Bay Adapter II	SATA 43R1980	Advanced Ultrabay Battery II 3-cell	43R9250	ThinkPlus 5-year LOR 9x5 NBD	45K6024									
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	90W Slim AC/DC Combo Adapter	41N8460	ThinkPlus 4-year P&L P/U Depot	45K6023									
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad Business Topload Case	43R2476	ThinkPlus 5-year P&L P/U Depot	45K6025									
USB 2.0 Super Multi-Burner Drive	41N5565	ThinkPad Business Backpack	43R2482	Post-warranty annual maintenance agreements at										
ThinkPad Adjustable Notebook Stand	40Y7676	T400/R400 Series 14W Privacy Filter	43R2472	lenovo.com/thinkplus/warranty										
ThinkPad Advanced Dock	250310U	ThinkVision® L1940p Wide 19" Monitor	4424HB6											
Verizon WWAN UNDP Broadband	43R9151	ThinkVision L2240p Wide 22" Monitor	4422HB6											
AT&T WWAN HSPA Broadband Mini PCIe	43R9152	ThinkVision L2440p Wide 24" Monitor	4420HB2											
Other accessories on O-T400 sheet		Other accessories at lenovo.com/accessories												

See footnotes for important warranty information
US model announced September 2, 2008

↳ Intel Centrino® 2 processor technology

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Type-model	Proc- essor GHz	Memory	Wide- screen display	Cam- era	Integrated graphics	Disk SATA GB ³ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Blue- tooth	Intel AMT	Preload	Avail date
7417-T1U P8400	2.26	2GB 14.1" WXGA			GMA 160G 5400 DVD±RW	Intel 5100 ²⁸	AT&T ²³				Fing			Bus 32	Aug 08
7417-T2U P8400	2.26	2GB 14.1" WXGA			GMA 160G 7200 DVD±RW	Intel 5100	AT&T				Fing	Blue		Bus 32	Aug 08
7417-TNU T9400	2.53	2GB 14.1" WXGA	Cam		GMA 160G 7200 DVD±RW	Intel 5100	AT&T			2G Turbo	Fing	Blue		XP Pro	Aug 08
7417-TPU P8400	2.26	2GB 14.1" WXGA			GMA 160G 5400 DVD±RW	Intel 5100	WWAN upg				Fing			XP Pro	Aug 08
7417-TRU P8400	2.26	2GB 14.1" WXGA			GMA 160G 7200 DVD±RW	Intel 5100	WWAN upg				Fing	Blue		XP Pro	Aug 08
7417-TSU T9400	2.53	2GB 14.1" WXGA	Cam		GMA 160G 7200 DVD±RW	Intel 5100	WWAN upg			2G Turbo	Fing	Blue		Bus 32	Aug 08
7417-TTU P8400	2.26	1GB 14.1" WXGA			GMA 160G 5400 Combo	Intel 5100	AT&T							Bus 32	Aug 08
7417-TUU P8400	2.26	1GB 14.1" WXGA			GMA 160G 5400 Combo	Intel 5100	WWAN upg							XP Pro	Aug 08
7417-P5U T9400	2.53	2GB 14.1" WXGA	Cam		GMA 160G 7200 DVD±RW	Intel 5100	WWAN upg				Fing	Blue		XP Pro	Sep 08
7417-11U P8400	2.26	1GB 14.1" WXGA			GMA 160G 5400 DVD±RW	Intel 5100	WWAN upg							XP Pro	Oct 08
7417-P9U P8600	2.40	2GB 14.1" WXGA			GMA 160G 7200 DVD±RW	Intel 5100	WiMAX				Fing	Blue	AMT	Bus 32	Jan 09
7417-PAU P8600	2.40	2GB 14.1" WXGA	Cam		GMA 128G SSD DVD±RW	Intel 5100	WWAN upg				Fing	Blue	AMT	XP Pro	Jan 09

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

Processor	Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400/P8600: 3MB L2 cache; T9400: 6MB L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ♦ Vista Premium logo Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)
Memory	1GB or 2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) <i>Some:</i> DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel <i>Some:</i> 128GB ⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 160GB ⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive	
Widescreen display	14.1" (358.1mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio	
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; <i>Maximum external resolution:</i> 2048x1536@75Hz (VGA DB-15)	
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 14.1W" (WxDxH): 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm 6-cell: starting at 5.0 lb (2.3kg) Black <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.5 hr; 6-cell plus Ultrabay battery: up to 8.0 hr; 9-cell: up to 9.8 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)	
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None None Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express Intel 5100 ²⁸ WiMAX WWAN upg AT&T ²³ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader Limited warranty ¹²	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n and WiMAX wireless ⁴ , Mini PCIe adap, Intel WiMAX/WiFi Link 5350, 3x3 (450Mbps) WiFi + 1x2 WiMAX (Echo Peak) <i>Some:</i> Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 <i>Some:</i> Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip 1-year - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available	
2GB PC3-8500 DDR3 SODIMM (TopSeller) 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) ThinkPad Advanced Dock Other accessories on O-T400 sheet	43R2046 43N3406 43N3411 250310U	T/R 14W High Capacity Battery 9-cell 43R2499 90W Slim AC/DC Combo Adapter 41N8460 ThinkPad Business Topload Case 43R2476 ThinkVision® L2440x Wide 24" Monitor 4421HB2 Other accessories at lenovo.com/accessories

See footnotes for important warranty information

♦ Intel Centrino® 2 processor technology
 ☞ US models announced January 6, 2009; previous models on August 5, September 2, or October 7, 2008

ThinkPad® T400 2765 (Switchable) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	CCFL or LED	Cam- era	Switchable graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe Bat- tery or UWB	Mini PCIe terry Preload	Avail date
2765-T1U	P8400	2.26	2GB	14.1" WXGA+			GMA, HD 3470	160G 7200	DVD±RW	Intel 5100 ²⁸	AT&T ²³	2G Turbo	9 Bus 32	Aug 08
2765-T2U	T9400	2.53	2GB	14.1" WXGA+		Cam	GMA, HD 3470	160G 7200	DVD±RW	Intel 5100	AT&T	2G Turbo	9 XP Pro	Aug 08
2765-T6U	P8400	2.26	2GB	14.1" WXGA+			GMA, HD 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg	2G Turbo	9 XP Pro	Aug 08
2765-T7U	T9400	2.53	2GB	14.1" WXGA+		Cam	GMA, HD 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg	2G Turbo	9 Bus 32	Aug 08
2765-P3U	T9400	2.53	2GB	14.1" WXGA+		Cam	GMA, HD 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg		9 XP Pro	Sep 08
2765-33U	P8400	2.26	2GB	14.1" WXGA+	LED		GMA, HD 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg		9 XP Pro	Oct 08

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

Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor P8400 or T9400 with dual-core , Intel HD Boost, 1066MHz system bus; <i>P8400</i> : 3MB L2 cache; <i>T9400</i> : 6MB L2 cache										Preloaded operating system²⁰ - <i>Some</i> : Microsoft® Windows® XP Professional with Vista® COA - <i>Some</i> : Microsoft Windows Vista Business Edition (32-bit) ◇ Vista Premium logo			
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics</i> : standard memory in both sockets; no sockets available; <i>Non-italics</i> : standard memory in one socket; one socket available										Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)			
SATA DVD±RW Ultrabay Slim SATA disk	DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™													
Widescreen display	<i>Some</i> : 14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some</i> : 14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 250 nits, 16:10 aspect ratio, 300:1 contrast ratio													
Camera	<i>Some</i> : camera on top of screen, 1.3-megapixel, fixed focus													
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, and ATI™ Mobility Radeon™ HD 3470 , PCI Express x16, 256MB memory, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; <i>Maximum external resolution</i> : 2048x1536@75Hz (VGA)													
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	<i>6-cell 14.1W"</i> (WxDxH): 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm <i>9-cell</i> : starting at 5.4 lb (2.4kg) <i>Top</i> : Super-Elastic PolyCarbonate (SEPC); <i>Bottom</i> : Carbon-Fiber Reinforced Plastic Lithium Ion 9-cell , supports unique 2nd battery in Ultrabay Slim <i>9-cell</i> : up to 9.8 hr; <i>9-cell plus Ultrabay battery</i> : up to 11.3 hr													
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)													
ExpressCard/54 PC Card Smart Card Read Multicard Reader	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None None													
Ports	Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)										Supports ThinkVantage® technologies			
Mini PCI Express Intel 5100 ²⁸ WWAN upg AT&T ²³ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some</i> : Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some</i> : Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T® <i>Some</i> : Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 None High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack										90-watt (ATI graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025			
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
1GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2045 2GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2046 320GB Disk SATA 1.5Gb/s (7200 rpm) 43N3411 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 ThinkPad Advanced Dock 250310U Verizon WWAN UNDP Broadband 43R9151 AT&T WWAN HSPA Broadband Mini PCIe 43R9152 Other accessories on O-T400 sheet	T/R 14W Enhanced Battery 6-cell 41U3198 T/R 14W High Capacity Battery 9-cell 43R2499 90W Slim AC/DC Combo Adapter 41N8460 ThinkPad Business Topload Case 43R2476 T400/R400 Series 14W Privacy Filter 43R2472 ThinkVision® L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440x Wide 24" Monitor 4421HB2 Other accessories at lenovo.com/accessories													

See footnotes for important warranty information
 † Intel Centrino® 2 processor technology
 † US model announced October 7, 2008; previous models on August 5 or September 2, 2008
 † US model withdrawn effective September 2008

Type-model	Proc- essor GHz	Memory	Wide- screen display	CCFL or LED	Inte- grated era graphics	Disk SATA GB ³ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe Bat- tery UWB or Turbo	Blue/Car d slot	Whorse (W) Pre- Gbl (G) Avail date
6474-11U	P8400	2.26 1GB	14.1" WXGA		GMA 80G	5400 Combo	Intel 5100 ²⁸	WWAN upg		6 Yes	PC	B32 G Aug 08
6474-R1U	P8400	2.26 2GB	14.1" WXGA		Cam GMA	160G 5400 Combo	Intel 5100	WWAN upg		6 Yes	7-in-1	B32 WG Aug 08
6474-R2U	T9400	2.53 2GB	14.1" WXGA		Cam GMA	160G 7200 DVD±RW	Intel 5100	WWAN upg	2G Turbo	9 Yes	PC	B32 WG Aug 08
6474-R3U	T9400	2.53 2GB	14.1" WXGA		Cam GMA	160G 5400 DVD±RW	Intel 5100	Verizon ¹⁶		6 Yes	7-in-1	B32 W Aug 08
6474-P1U	T9400	2.53 2GB	14.1" WXGA		GMA	160G 5400 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	XP G Sep 08
6474-P2U	P8400	2.26 1GB	14.1" WXGA		GMA	80G 5400 Combo	Intel 5100	WWAN upg		6 Yes	PC	XP G Sep 08
6474-T1U	P8600	2.40 1GB	14.1" WXGA		GMA	160G 5400 DVD±RW	Intel 5100	WWAN upg		6	Smart	B32 TAA Oct 08
6474-44U	P8400	2.26 3GB	14.1" WXGA		Cam GMA	160G 5400 DVD±RW	Intel 5100	WWAN upg		6 Yes	7-in-1	B32 WG Nov 08
6474-45U	T9400	2.53 3GB	14.1" WXGA		Cam GMA	160G 5400 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	B32 WG Nov 08
6474-P8U	P8600	2.40 2GB	14.1" WXGA		GMA	160G 5400 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	B32 WG Dec 08
6474-P9U	P8600	2.40 2GB	14.1" WXGA+ LED		GMA	160G 7200 DVD±RW	Intel 5100	WWAN upg		9 Yes	PC	B32 WG Dec 08
6474-R8U	P8600	2.40 3GB	14.1" WXGA LED		GMA	160G 7200 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	B32 Feb 09
6474-R9U	P8600	2.40 2GB	14.1" WXGA LED		GMA	160G 5400 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	B32 Feb 09
US Govt (TAA) ⁵ Processor	T1U: US Government model (Trade Act Agreement-compliant) 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											
Memory	1GB, 2GB, or 3GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available											
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) <i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 80GB⁸ (5400 rpm) or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											
Widescreen display	<i>Some:</i> 14.1" (358.1mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358.1mm) WXGA (1280x800) color , anti-glare, LED backlight , high brightness 680 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 250 nits, 16:10 aspect ratio, 300:1 contrast ratio											
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus											
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; <i>Maximum external resolution:</i> 2048x1536 @75Hz											
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions											
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 14.1W" (WxDxH): 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm 6-cell: starting at 5.0 lb (2.3kg); 9-cell: starting at 5.4 lb (2.4kg) Black <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.5 hr; 6-cell plus Ultrabay battery: up to 8.0 hr; 9-cell: up to 9.8 hr											
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O) One slot (ExpressCard/34, ExpressCard/54) <i>Some:</i> One slot (Type I, Type II), CardBus 32-bit <i>Some:</i> Smart Card reader <i>Some:</i> 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)											
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	Supports ThinkVantage® technologies 65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378											
Mini PCI Express Intel 5100 ²⁸ WWAN upg Verizon ¹⁶ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some:</i> Wireless WAN, Qualcomm chipset, Mini PCIe adapter and SIM, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, service contract reqd with Verizon <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor contract reqd, security keyhole											
Security Security chip Fingerprint reader	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip											
Limited warranty ¹²	3-years/1-yr battery - EasyServ™-19 depot repair service / service upgrades ²² available											
2GB PC3-8500 DDR3 SODIMM Other accessories on O-T400 sheet	43R1988	T/R 14W High Capacity Battery 9-cell						43R2499	Other accessories at lenovo.com/accessories			
See footnotes for important warranty information											© Lenovo	
US models announced February 3, 2009; previous models on Aug 5, Sep 2, Oct 7, Nov 4, or Dec 2, 2008											(ML3-3) February 2009	

See footnotes for important warranty information

Intel Centrino® 2 with vPro™ technology

US models announced February 3, 2009; previous models on Aug 5, Sep 2, Oct 7, Nov 4, or Dec 2, 2008

ThinkPad® T400 2767 (Switchable)

Type-model	Proc-essor GHz	Mem-ory	14.1" wide screen or Cam-LED era	Switchable graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat-tery card	Whorse (W) Gbl (G) Avail date	
2767-11U	P8600 2.40	1GB	WXGA+	GMA, 3470	80G 5400	Combo	Intel 5100 ²⁸	WWAN upg	Yes	6 PC	B32 G Aug08	
2767-12U	T9400 2.53	2GB	WXGA+	GMA, 3470	160G 5400	DVD±RW	Intel 5100	WWAN upg	2G Turbo	Yes	9 7-in-1 B32 W G Aug08	
2767-13U	T9400 2.53	2GB	WXGA+	GMA, 3470	160G 7200	DVD±RW	Intel 5100	Verizon ¹⁶	2G Turbo	Yes	9 7-in-1 B32 W Aug08	
2767-14U	T9600 2.80	2GB	WXGA+	Cam GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg	2G Turbo	Yes	9 7-in-1 B32 W Aug08	
2767-R2U	T9600 2.80	2GB	WXGA+	Cam GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg	2G Turbo	Yes	9 7-in-1 B64 Aug08	
2767-R9U	T9600 2.80	2GB	WXGA+ LED	Cam GMA, 3470	160G 7200	DVD±RW	Intel 5100	Verizon	2G Turbo	Yes	9 7-in-1 B32 W Aug08	
2767-2GU	P8600 2.40	1GB	WXGA	GMA, 3470	160G 7200	Combo	Intel 5100	WWAN upg		6 Smart	B32 TAA Aug08	
2767-2HU	P8600 2.40	2GB	WXGA+	GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg		6 Smart	B32 TAA Aug08	
2767-2JU	T9400 2.53	2GB	WXGA	Cam GMA, 3470	250G 5400	DVD±RW	Intel 5100	WWAN upg		Yes	9 7-in-1 B32 W G Aug08	
2767-2NU	T9600 2.80	2GB	WXGA+ LED	Cam GMA, 3470	64G SSD	DVD±RW	Intel 5300 ²⁸	WWAN upg		Yes	9 PC B32 Sep08	
2767-P1U	T9400 2.53	2GB	WXGA+	GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg	2G Turbo	Yes	9 PC XP G Sep08	
2767-P6U	P8600 2.40	1GB	WXGA+	GMA, 3470	80G 5400	Combo	Intel 5100	WWAN upg		Yes	6 PC XP G Sep08	
2767-P7U	T9400 2.53	2GB	WXGA+	GMA, 3470	160G 5400	DVD±RW	Intel 5100	WWAN upg	2G Turbo	Yes	9 7-in-1 XP G Sep08	
US Govt (TAA) ⁵ Processor	2GU/2HU: US Government model (Trade Act Agreement-compliant) Intel® Core™ 2 Duo processor P8600, T9400, or T9600 with dual-core, Intel HD Boost, 1066MHz system bus; P8600: 3MB L2 cache; T9400/T9600: 6MB L2 cache								Preloaded operating system²⁰ - Some: Microsoft Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) ◇ Vista Premium logo			
Memory	1GB or 2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available								- Some: Microsoft Windows Vista Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit)			
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	Some: CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) Some: DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel Some: 64GB ⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high; Some: 80GB ⁸ (5400 rpm), 160GB ⁸ (5400 or 7200 rpm), or 250GB ⁸ (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ All: removable, upgradable, supports 2nd disk, shock mounted storage								◇ Vista Premium logo Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)			
Widescreen display	Some: 14.1" (358.1mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 14.1" (358.1mm) WXGA+ (1440x900) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 14.1" (358.1mm) WXGA+ (1440x900) color, anti-glare, LED backlight, 250 nits, 16:10 aspect ratio, 300:1 contrast ratio											
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus											
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, and ATI™ Mobility Radeon™ HD 3470, PCI Express x16, 256MB memory, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; Maximum external resolution: 2048x1536@75Hz (VGA)											
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions											
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	6-cell 14.1W" (WxDxH): 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm 6-cell: starting at 5.0 lb (2.3kg); 9-cell: starting at 5.4 lb (2.4kg) Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.5 hr; 6-cell plus Ultrabay battery: up to 8.0 hr; 9-cell: up to 9.8 hr								Supports ThinkVantage® technologies			
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)								90-watt (ATI graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Gold rating (LED model) EPEAT Silver rating (other models) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
ExpressCard slot PC Card Std slot Smart Card Reader Multicard Reader Ports	One ExpressCard/34 or ExpressCard/54 Some: One Type I or Type II slot, CardBus 32-bit Some: Smart Card Reader Some: 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)											
Mini PCI Express	Three Mini PCI Express slots Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) Some: Wireless WAN, Qualcomm chipset, Mini PCIe adapter and SIM, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, service contract reqd with Verizon								ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175			
2G Turbo UWB Modem	Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem								ThinkPlus 3-year LOR 9x5 NBD 45K6021			
Bluetooth™ Ethernet Intel AMT Audio support	Some: Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack								ThinkPlus 4-year LOR 9x5 NBD 45K6022			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip								ThinkPlus 5-year LOR 9x5 NBD 45K6024			
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available								ThinkPlus 4-year P&L P/U Depot 45K6023			
									ThinkPlus 5-year P&L P/U Depot 45K6025			
									Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			

See footnotes for important warranty information

◆ Intel Centrino® 2 with vPro™ technology

Ⓜ US models announced September 2, 2008; previous models on August 5, 2008

ThinkPad® T400 2767 (Switchable) - October 2008

Personal Systems Reference (PSREF)

Type-model	Proc-essor	Mem-ory	14.1" wide CCFL screen or Cam- LED	Switchable graphics	Disk SATA GB ³ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat-tery	Blue/ Fing	Card slot	Whorse (W) Pre- load	(G) Avail date	
2767-31U	P8600	2.40	2GB WXGA	Cam	GMA, 3470	160G 7200	DVD±RW	Intel 5300 ²⁸	WWAN upg	Yes	6	7-in-1	Bus32	WG Oct 08	
2767-R1U	T9400	2.53	2GB WXGA	Cam	GMA, 3470	160G 7200	DVD±RW	Intel 5100 ²⁸	WWAN upg	UWB	Yes	9	7-in-1	Bus32 Oct 08	
2767-R3U	T9400	2.53	2GB WXGA+	Cam	GMA, 3470	160G 7200	DVD±RW	Intel 5300	WWAN upg	UWB	Yes	9	7-in-1	Bus32 W Oct 08	
2767-T1U	P8600	2.40	1GB WXGA		GMA, 3470	160G 7200	Combo	Intel 5100	WWAN upg			6	Smart	Bus32 TAA Oct 08	
2767-T2U	P8600	2.40	2GB WXGA+		GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg			6	Smart	Bus32 TAA Oct 08	
2767-4AU	T9400	2.53	3GB WXGA+		GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg	Yes	6	PC	Bus32	WG Nov08	
2767-P8U	P8600	2.40	2GB WXGA+		GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg	Yes	9	PC	Bus32	WG Dec08	
2767-P9U	P8600	2.40	2GB WXGA+ LED		GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg	Yes	9	PC	Bus32	WG Dec08	
US Govt (TAA) ⁵ Processor	T1U/T2U: US Government model (Trade Act Agreement-compliant) Intel® Core™ 2 Duo processor P8600 or T9400 with dual-core , Intel HD Boost, 1066MHz system bus; P8600: 3MB L2 cache; T9400: 6MB L2 cache														
Memory	1GB, 2GB, or 3GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available														
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) <i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™														
Widescreen display	<i>Some:</i> 14.1" (358.1mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 250 nits, 16:10 aspect ratio, 300:1 contrast ratio														
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus														
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, and ATI™ Mobility Radeon™ HD 3470 , PCI Express x16, 256MB memory, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; <i>Maximum external resolution:</i> 2048x1536@75Hz														
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 14.1W" (WxDxH): 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm 6-cell: starting at 5.0 lb (2.3kg); 9-cell: starting at 5.4 lb (2.4kg) Black <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell , supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.5 hr; 6-cell plus Ultrabay battery: up to 8.0 hr; 9-cell: up to 9.8 hr														
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)														
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) <i>Some:</i> One slot (Type I, Type II), CardBus 32-bit <i>Some:</i> Smart Card reader <i>Some:</i> 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Mini PCI Express Intel 5100 ²⁸ Intel 5300 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None <i>Some:</i> Wireless USB based on Ultra-Wideband (UWB), Half-Mini PCIe adapter 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack														
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip														
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available														
2GB PC3-8500 DDR3 SODIMM	43R1988	T/R 14W High Capacity Battery 9-cell	43R2499	320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	90W Slim AC/DC Combo Adapter	41N8460	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkPad Business Backpack	43R2482	ThinkPad Advanced Dock	250310U	T400/R400 Series 14W Privacy Filter	43R2472
Verizon WWAN UNDP Broadband	43R9151	ThinkVision® L2440x Wide 24" Monitor	4421HB2	Other accessories on O-T400 sheet	Other accessories at lenovo.com/accessories										
										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ↳ Vista Premium logo					
										Preloaded applications¹⁴ • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)					
										Supports ThinkVantage® technologies					
										90-watt (ATI graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Gold rating (LED model) EPEAT Silver rating (other models) ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378					
										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175					
										ThinkPlus 3-year LOR 9x5 NBD 45K6021					
										ThinkPlus 4-year LOR 9x5 NBD 45K6022					
										ThinkPlus 5-year LOR 9x5 NBD 45K6024					
										ThinkPlus 4-year P&L P/U Depot 45K6023					
										ThinkPlus 5-year P&L P/U Depot 45K6025					
										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty					

See footnotes for important warranty information

↳ Intel Centrino® 2 with vPro™ technology

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↳ US models announced December 2, 2008; previous models on October 7 or November 4, 2008

(ML3-10) January 2009

Proc- Type-model	essor GHz	Memory	Wide- screen display	CCFL or Cam- LED era	Integrated graphics	Disk SATA GB ³	SATA rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue/ Card Fing slot	Whorse (W) Pre- load	(G) Avail (P) date	
6475-11U	P8400	2.26	1GB	14.1" WXGA		GMA 80G	5400	Combo	Intel 5100 ²⁸	WWAN	upg	6 Yes	PC B32	GP Aug08	
6475-R1U	P8400	2.26	2GB	14.1" WXGA		Cam GMA 160G	5400	Combo	Intel 5100	WWAN	upg	6 Yes	7-in-1 B32	WGP Aug08	
6475-R2U	T9400	2.53	2GB	14.1" WXGA		Cam GMA 160G	7200	DVD±RW	Intel 5100	WWAN	upg	2G Turbo	9 Yes	PC B32	WGP Aug08
6475-P1U	T9400	2.53	2GB	14.1" WXGA		GMA 160G	5400	DVD±RW	Intel 5100	WWAN	upg	6 Yes	PC XP	GP Sep08	
6475-44U	P8400	2.26	3GB	14.1" WXGA		Cam GMA 160G	5400	Combo	Intel 5100	WWAN	upg	6 Yes	7-in-1 B32	WGP Nov08	
6475-45U	T9400	2.53	3GB	14.1" WXGA		Cam GMA 160G	5400	DVD±RW	Intel 5100	WWAN	upg	6 Yes	PC B32	WGP Nov08	
6475-P8U	P8600	2.40	2GB	14.1" WXGA		GMA 160G	5400	DVD±RW	Intel 5100	WWAN	upg	6 Yes	PC B32	WGP Dec08	
6475-P9U	P8600	2.40	2GB	14.1" WXGA+ LED		GMA 160G	7200	DVD±RW	Intel 5100	WWAN	upg	9 Yes	PC B32	WGP Dec08	
<p>• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty</p>															
Positioning Processor	<p>Premiere performance; two spindles Intel® Core™ 2 Duo processor P8400 or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400: 3MB L2 cache; T9400: 6MB L2 cache</p>											<p>Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ↔ Vista Premium logo</p>			
Memory	<p>1GB, 2GB, or 3GB std / 8GB max⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available</p>											<p>Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)</p>			
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	<p>Some: CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) Some: DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 80GB⁸ (5400 rpm), 160GB (5400 rpm or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>														
Widescreen display	<p>Some: 14.1" (358.1mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 14.1" (358.1mm) WXGA+ (1440x900) color, anti-glare, LED backlight, 250 nits, 16:10 aspect ratio, 300:1 contrast ratio</p>														
Camera	<p>Some: camera on top of screen, 1.3-megapixel, fixed focus</p>														
Integrated graphics	<p>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock</p>														
Keyboard TrackPoint® Touch pad ThinkLight™	<p>89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions</p>														
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	<p>6-cell 14.1W" (WxDxH): 13.2" x 10.6" x 1.1-1.3"; 335.5 x 270mm x 28-32mm 6-cell: starting at 5.0 lb (2.3kg); 9-cell: starting at 5.4 lb (2.4kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.5 hr; 6-cell plus Ultrabay battery: up to 8.0 hr; 9-cell: up to 9.8 hr</p>														
Chipset	<p>Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)</p>														
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	<p>One slot (ExpressCard/34, ExpressCard/54) Some: One slot (Type I, Type II), CardBus 32-bit None Some: 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)</p>														
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	<p>Three Mini PCI Express slots 11a/b/g/n wireless⁴, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack</p>														
Security Security chip Fingerprint reader	<p>Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip</p>											<p>Supports ThinkVantage® technologies</p>			
Limited warranty ¹²	<p>3-years/1-year battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades²² available</p>											<p>65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>			
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Blu-ray Burner Ultrabay Slim 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Portable Secure ThinkPad Advanced Dock Verizon WWAN UNDP Broadband AT&T WWAN HSPA Broadband Other accessories on O-T400 sheet	43R1987 43R1988 43N3215 43N3406 43N3411 43R2019 250310U 43R9151 43R9152	T/R 14W Enhanced Battery 6-cell T/R 14W High Capacity Battery 9-cell Advanced Ultrabay Battery II 3-cell 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack T400/R400 Series 14W Privacy Filter ThinkVision® L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	41U3198 43R2499 43R9250 41N8460 43R2476 43R2482 43R2472 4422HB6 4421HB2	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378 ThinkPlus™.22 4-year LOR 9x5 NBD 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty											

See footnotes for important warranty information

↔ Intel Centrino® 2 with vPro™ technology

Ⓜ US models announced December 2, 2008; previous models on Aug 5, Sep 2, or November 4, 2008

ThinkPad® T400 2768 (Switchable) - Onsite

Type-model	Proc- essor	Mem- ory	14.1" wide- screen display	CCFL or LED	Cam- era	Switchable graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Card slot	Pre- load	Whorse (W) GMP (P) Gbl (G) date
2768-11U	P8600	2.40	1GB	WXGA+		GMA, 3470	80G 5400	Combo	Intel 5100 ²⁸	WWAN upg		6 PC	Bus32	GP Aug08
2768-12U	T9400	2.53	2GB	WXGA+		GMA, 3470	160G 5400	DVD±RW	Intel 5100	WWAN upg	Turbo	9 7-in-1	Bus32	WGP Aug08
2768-2JU	T9400	2.53	2GB	WXGA	Cam	GMA, 3470	250G 5400	DVD±RW	Intel 5100	WWAN upg		9 7-in-1	Bus32	WGP Aug08
2768-P1U	T9400	2.53	2GB	WXGA+		GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg	Turbo	9 PC	XP Pro	GP Aug08
2768-31U	P8600	2.40	2GB	WXGA	Cam	GMA, 3470	160G 7200	DVD±RW	Intel 5300 ²⁸	WWAN upg		6 7-in-1	Bus32	WGP Oct 08
2768-4AU	T9400	2.53	3GB	WXGA+		GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg		6 PC	Bus32	WGP Nov08
2768-P8U	P8600	2.40	2GB	WXGA+		GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg		9 PC	Bus32	WGP Dec08
2768-P9U	P8600	2.40	2GB	WXGA+ LED		GMA, 3470	160G 7200	DVD±RW	Intel 5100	WWAN upg		9 PC	Bus32	WGP Dec08
<p>• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty</p>														
Positioning Processor	<p>Premiere performance; two spindles Intel® Core™ 2 Duo processor P8600 or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8600: 3MB L2 cache; T9400: 6MB L2 cache</p>											<p>Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ⇨ Vista Premium logo</p>		
Memory	<p>1GB, 2GB, or 3GB std / 8GB max⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available</p>											<p>Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)</p>		
SATA Combo SATA DVD±RW Ultra Slim SATA disk	<p>Some: CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) Some: DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 80GB⁸ (5400 rpm), 160GB (5400 or 7200 rpm), or 250GB (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>													
Widescreen display	<p>Some: 14.1" (358.1mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 14.1" (358.1mm) WXGA+ (1440x900) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 14.1" (358.1mm) WXGA+ (1440x900) color, anti-glare, LED backlight, 250 nits, 16:10 aspect ratio, 300:1 contrast ratio</p>													
Camera	<p>Some: camera on top of screen, 1.3-megapixel, fixed focus</p>													
Switchable graphics	<p>Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, and ATI™ Mobility Radeon™ HD 3470, PCI Express x16, 256MB memory, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; <i>Maximum external resolution: 2048x1536@75Hz (VGA)</i></p>													
Keyboard TrackPoint® Touch pad ThinkLight™	<p>89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions</p>													
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	<p>6-cell 14.1W" (WxDxH): 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm 6-cell: starting at 5.0 lb (2.3kg); 9-cell: starting at 5.4 lb (2.4kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.5 hr; 6-cell plus Ultrabay battery: up to 8.0 hr; 9-cell: up to 9.8 hr</p>													
Chipset	<p>Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)</p>													
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	<p>One slot (ExpressCard/34, ExpressCard/54) Some: One slot (Type I, Type II), CardBus 32-bit None Some: 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)</p>													
Mini PCI Express Intel 5100 ²⁸ Intel 5300 ²⁸ WWAN upg 2G Turbo UWB	<p>Three Mini PCI Express slots Some: 11a/b/g/n wireless⁴, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: 11a/b/g/n wireless⁴, Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator</p>											<p>Supports ThinkVantage® technologies</p>		
Modem Bluetooth™ Ethernet Intel AMT Audio support	<p>56K V.92⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack</p>											<p>90-watt (ATI graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>		
Security Security chip Fingerprint reader	<p>Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip</p>													
Limited warranty ¹²	<p>3-years/1-year battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades²² available</p>													
2GB PC3-8500 DDR3 SODIMM 320GB Disk SATA 1.5Gb/s (7200 rpm) ThinkPad Advanced Dock AT&T WWAN HSPA Broadband Mini PCIe Other accessories on O-T400 sheet	43R1988 43N3411 250310U 43R9152	T/R 14W High Capacity Battery 9-cell 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkVision® L2440p Wide 24" Monitor Other accessories at lenovo.com/accessories	43R2499 41N8460 43R2476 4420HB2	<p>ThinkPlus™.22 4-year LOR 9x5 NBD 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty</p>										

See footnotes for important warranty information

⇨ Intel Centrino® 2 with vPro™ technology

Ⓜ US models announced December 2, 2008; previous models on Aug 5, Sep 2, Oct 7, or November 4, 2008

ThinkPad® T400 2768 (Switchable) - Education (Onsite)

Personal Systems Reference (PSREF)

Type-model	Proc-essor	Mem-ory	14.1" wide- screen display	CCFL or Cam- LED era	Switchable graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe Bat-tery UWB or Turbo cells	Pre-load	Whorse (W) GMP (P) Avail date
2768-E7U	T9400	2.53 GHz	2GB	WXGA+	Cam	GMA, 3470	160G 7200	DVD±RW	❖ Intel 5100 ²⁸	WWAN upg	None	6 7-in-1 Ult32 W Feb 09
<ul style="list-style-type: none"> • This model has a limited onsite service²⁴ 3-year limited warranty • Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers. • Microsoft® Office Ultimate 2007 Academic Edition: Only valid for sale to students, faculty and staff of accredited educational institutions in the United States. 												
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T9400 with dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Ultimate Edition (32-bit) ❖ Vista Premium logo	
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ • Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)	
SATA DVD±RW Ultrabay Slim SATA disk	DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											
Widescreen display Camera	14.1" (358.1mm) WXGA+ (1440x900) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus											
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, and ATI™ Mobility Radeon™ HD 3470 , PCI Express x16, 256MB memory, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; <i>Maximum external resolution: 2048x1536@75Hz (VGA)</i>											
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions											
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	<i>6-cell 14.1W" (WxDxH):</i> 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm <i>6-cell:</i> starting at 5.0 lb (2.3kg); <i>9-cell:</i> starting at 5.4 lb (2.4kg) Black <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 6.5 hr; <i>6-cell plus Ultrabay battery:</i> up to 8.0 hr; <i>9-cell:</i> up to 9.8 hr; <i>9-cell plus Ultrabay battery:</i> up to 11.3 hr											
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)											
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) None None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)											
Mini PCI Express Intel 5100 ²⁸ Intel 5300 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip										Supports ThinkVantage® technologies	
Limited warranty ¹²	3-years /1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available										90-watt (ATI graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378	
2GB PC3-8500 DDR3 SODIMM 320GB Disk SATA 1.5Gb/s (7200 rpm) ThinkPad Advanced Dock AT&T WWAN HSPA Broadband Mini PCIe Other accessories on O-T400 sheet	43R1988 43N3411 250310U 43R9152	T/R 14W High Capacity Battery 9-cell 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkVision® L2440p Wide 24" Monitor Other accessories at lenovo.com/accessories	43R2499 41N8460 43R2476 4420HB2	ThinkPlus™.22 4-year LOR 9x5 NBD 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty								

See footnotes for important warranty information
US model announced February 17, 2009

❖ Intel Centrino® 2 with vPro™ technology

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(ML3-11) February 2009

Type-model	Proc- essor GHz	Memory	Wide- screen display	Cam- era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue/ Card	Workhorse (W) Global (G) Avail date
6474-E1U	P8400	2.26 1GB	14.1" WXGA	Cam	GMA 80G	5400	Combo	Intel 5100	WWAN upg	2G Turbo	6 Yes	PC Card W Aug 08
6474-E2U	T9400	2.53 2GB	14.1" WXGA	Cam	GMA 160G	7200	DVD±RW	Intel 5100	WWAN upg	2G Turbo	9 Yes	7-in-1 W Aug 08
6474-E3U	T9400	2.53 2GB	14.1" WXGA	Cam	GMA 250G	5400	DVD±RW	Intel 5100	WWAN upg	2G Turbo	9 Yes	7-in-1 W Aug 08

• **These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor P8400 or T9400 with dual-core, 1066MHz system bus; P8400: 3MB L2 cache; T9400: 6MB L2 cache											Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ⇨ Vista Premium logo Preloaded applications¹⁴ • Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)																																	
Memory	1GB or 2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available <i>Non-italics:</i> standard memory in one socket; one socket available																																												
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) <i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 80GB⁸ (5400 rpm), 160GB (7200 rpm), or 250GB (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™																																												
Widescreen display Camera	14.1" (358.1mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 185 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus																																												
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; <i>Maximum external resolution:</i> 2048x1536@75Hz																																												
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions																																												
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	6-cell 14.1W" (WxDxH): 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm 6-cell: starting at 5.0 lb (2.3kg); 9-cell: starting at 5.4 lb (2.4kg) <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell , supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.5 hr; 6-cell plus Ultrabay battery: up to 8.0 hr; 9-cell: up to 9.8 hr																																												
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O) One ExpressCard/34 or ExpressCard/54 <i>Some:</i> One Type I or Type II slot, CardBus 32-bit																																												
ExpressCard slot PC Card Std slot Smart Card Read Multicard Reader Ports	<i>Some:</i> 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor (VGA DB-15), 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 ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None												Supports ThinkVantage® technologies																																
Modem	56K V.92 ⁶ modem											65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378																																	
Bluetooth™	Bluetooth 2.0 wireless, LED indicator																																												
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1																																												
Intel AMT	Intel Active Management Technology (IAMT 4.0)																																												
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack																																												
Security	Power-on password, hard disk password, supervisor password, security keyhole																																												
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant																																												
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip																																												
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available																																												
1GB PC3-8500 DDR3 SODIMM	43R1987	T/R 14W Standard Battery 4-cell	41U3196	2GB PC3-8500 DDR3 SODIMM	43R1988	T/R 14W Enhanced Battery 6-cell	41U3198	Blu-ray Burner Ultrabay Slim SATA 1.5Gb/s	43N3215	T/R 14W High Capacity Battery 9-cell	43R2499		Serial ATA Hard Drive Bay Adapter II SATA	43R1980	Advanced Ultrabay Battery II 3-cell	43R9250	128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	90W Slim AC/DC Combo Adapter	41N8460	ThinkPad Business Topload Case	43R2476	320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad Business Backpack	43R2482	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	T400/R400 Series 14W Privacy Filter	43R2472	USB 2.0 Super Multi-Burner Drive	41N5565	ThinkVision® L1940p Wide 19" Monitor	4424HB6	ThinkPad Advanced Dock	250310U	ThinkVision L2240p Wide 22" Monitor	4422HB6	Verizon WWAN UNDP Broadband	43R9151	ThinkVision L2440x Wide 24" Monitor	4421HB2	AT&T WWAN HSPA Broadband Mini PCIe	43R9152	Other accessories at lenovo.com/accessories

See footnotes for important warranty information
US models announced August 5, 2008

⇨ Intel Centrino® 2 with vPro™ technology

ThinkPad® T400 2767 (Switchable) - Education

Personal Systems Reference (PSREF)

Type-model	Proc-essor	Mem-ory	Wide-screen display	Cam-era	Switchable graphics	Disk SATA GB ⁵ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat-tery Card	Whorse (W) Global (G) Avail date
2767-E1U T9400	2.53	2GB	14.1" WXGA+Cam	GMA, HD	3470	160G 5400 DVD±RW	✦ Intel 5100 ²⁸	WWAN upg	2G Turbo	9	7-in-1 B32	W Aug 08
2767-E2U T9400	2.53	2GB	14.1" WXGA+Cam	GMA, HD	3470	160G 7200 DVD±RW	✦ Intel 5100	WWAN upg	2G Turbo	9	7-in-1 B32	W Aug 08
2767-E7U T9400	2.53	2GB	14.1" WXGA+Cam	GMA, HD	3470	160G 7200 DVD±RW	✦ Intel 5100	WWAN upg	2G Turbo	6	7-in-1 U32	W Feb 09

- **These models have an EasyServ™,19 depot repair service 3-year limited warranty**
- Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.
- Microsoft® Office Ultimate 2007 Academic Edition: Only valid for sale to students, faculty and staff of accredited educational institutions in the United States.

Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T9400 with dual-core, Intel HD Boost, and 6MB L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit) ✦ Vista Premium logo
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	Preloaded applications¹⁴ (all OSES) • <i>E1U/E2U models:</i> Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • <i>E7U model:</i> Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD)
SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (5400 or 7200rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™	• Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)
Widescreen display	14.1" (358.1mm) WXGA+ (1440x900) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	Supports ThinkVantage® technologies
Camera	Camera on top of screen, 1.3-megapixel, fixed focus	90-watt (ATI graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, and ATI™ Mobility Radeon™ HD 3470 , PCI Express x16, 256MB memory, DVI pass-through support to optional Advanced Mini Dock or Advanced Dock; <i>Maximum external resolution:</i> 2048x1536@75Hz	ThinkPlus™.22 2-year LOR 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty
Keyboard TrackPoint®	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	Limited warranty ¹² 3-years/1-yr battery - EasyServ™,19 depot repair service / service upgrades ²² available
Touch pad ThinkLight™	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions	1GB PC3-8500 DDR3 SODIMM 43R1987 2GB PC3-8500 DDR3 SODIMM 43R1988 Blu-ray Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 Serial ATA Hard Drive Bay Adapter II SATA 43R1980 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 43N3406 320GB Disk SATA 1.5Gb/s (7200 rpm) 43N3411 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 USB 2.0 Super Multi-Burner Drive 41N5565 ThinkPad Advanced Dock 250310U AT&T WWAN HSPA Broadband Mini PCIe 43R9152 Other accessories on O-T400 sheet
Dimensions ³ Weight ²	<i>6-cell 14.1W" (WxDxH):</i> 13.2" x 10.6" x 1.1–1.3"; 335.5 x 270mm x 28–32mm <i>9-cell:</i> starting at 5.4 lb (2.4kg)	T/R 14W Enhanced Battery 6-cell 41U3198 T/R 14W High Capacity Battery 9-cell 43R2499 Advanced Ultrabay Battery II 3-cell 43R9250 90W Slim AC/DC Combo Adapter 41N8460 ThinkPad Business Topload Case 43R2476 ThinkPad Business Backpack 43R2482 T400/R400 Series 14W Privacy Filter 43R2472 ThinkVision® L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Other accessories at lenovo.com/accessories
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic	
Battery - type	Lithium Ion 6-cell or 9-cell , supports unique 2nd battery in Ultrabay Slim	
Battery - life ¹⁰	<i>6-cell:</i> up to 6.5 hr; <i>9-cell plus Ultrabay battery:</i> up to 8.0 hr; <i>9-cell:</i> up to 9.8 hr; <i>9-cell plus Ultrabay battery:</i> up to 11.3 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)	
ExpressCard slot	One ExpressCard/34 or ExpressCard/54	
PC Card Std slot	None	
Smart Card Read	None	
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)	
Ports	Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express	Three Mini PCI Express slots	
Intel 5100 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)	
WWAN upg	Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)	
2G Turbo	Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator	
UWB	None	
Modem	56K V.92 ⁶ modem	
Bluetooth™	Bluetooth 2.0 wireless, LED indicator	
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1	
Intel AMT	Intel Active Management Technology (IAMT 4.0)	
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant	
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip	

See footnotes for important warranty information

✦ Intel Centrino® 2 with vPro™ technology

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Ⓜ US model announced February 17, 2009; previous models on August 5, 2008

(ML3-8) February 2009

Partial list of accessories supported on:
• ThinkPad T400 originally announced on August 5, 2008

Memory	
1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045 ann 11/04/08
1GB PC3-8500 DDR3 SODIMM	43R1987 ann 08/05/08
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046 ann 11/04/08
2GB PC3-8500 DDR3 SODIMM	43R1988 ann 08/05/08

Ultrabay Slim 9.5mm	
Serial ATA Hard Drive Bay Adapter II SATA	43R1980 ann 08/05/08
DVD-ROM Ultrabay Slim SATA 1.5Gb/s	43N3212 ann 08/05/08
CD-RW/DVD-ROM Ultrabay Slim SATA	43N3213 ann 08/05/08
DVD Burner Ultrabay Slim SATA 1.5Gb/s	43N3214 ann 08/05/08
Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s	43N3215 ann 08/05/08

Storage and removable storage	
160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692 ann 03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737 ann 10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152 ann 01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410 ann 01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403 ann 08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411 ann 01/20/09

⁴¹ Can be used as the main HDD or with *Serial ATA Hard Drive Bay Adapter 43R1980* in the Ultrabay or (in the *ThinkPad Advanced Dock 250310U* with *Serial Hard Drive Ultrabay Slim Adapter 40Y8725*)

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406 ann 08/26/08
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 Security Memory Key 2GB	41U5119 ann 07/17/07
USB 2.0 Security Memory Key 4GB	41U5120 ann 07/17/07
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 Portable Diskette Drive	05K9276 ann 06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637 ann 01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784 ann 09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565 ann 01/23/07

Wireless WAN (Mini PCI Express)	
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	
USB 2.0 Lenovo Enhanced Port Replicator	43R8770 ann 02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676 ann 09/20/05
ThinkPad Essential Port Replicator	250510W ann 09/20/05
ThinkPad Advanced Mini Dock	250410U ann 09/20/05
ThinkPad Advanced Dock	250310U ann 09/20/05

Keyboard	
TrackPoint Cap Collection	73P2698 ann 12/16/03
USB Numeric Keypad	33L3225 ann 05/01/00
Preferred Pro USB Keyboard	73P5220 ann 06/21/05
Enhanced Performance USB Keyboard	73P2620 ann 03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067 ann 12/07/04
USB Keyboard with UltraNav	31P8950 ann 01/28/03
USB Travel Keyboard with UltraNav	31P9490 ann 04/27/04
Lenovo USB Fingerprint Keyboard	73P4730 ann 02/22/05

Mouse	
Optical Wheel Mouse (USB)	06P4069 ann 05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405 ann 08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410 ann 06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074 ann 01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696 ann 11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198 ann 11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008 ann 01/22/08

Security	
Kensington® Cable Lock from Lenovo	73P2582 ann 12/29/03
Kensington Twin Head Cable Lock	45K1620 ann 09/30/08
T400/R400 Series 14W Privacy Filter	43R2472 ann 08/05/08
USB Gemplus GemPC Smart Card Reader	41N3040 ann 02/21/06
PC Card Gemplus Smart Card Reader	41N3004 ann 12/13/05
ExpressCard Gemplus Smart Card Reader	41N3043 ann 06/27/06

Multimedia	
USB 2.0 Lenovo Multimedia Headset	40Y8518 ann 06/27/06
USB 2.0 Lenovo Webcam	40Y8519 ann 08/29/06

Batteries	
T/R 14W Standard Battery 4-cell	41U3196 ann 05/09/07
T/R 14W Enhanced Battery 6-cell	41U3198 ann 05/09/07
T/R 14W High Capacity Battery 9-cell	43R2499 ann 03/04/08
Advanced Ultrabay Battery II 3-cell ⁴³	43R9250 ann 04/22/08
⁴³ Used in Ultrabay Slim bay.	
ThinkPad External Battery Charger ⁴⁴	40Y7625 ann 09/20/05
⁴⁴ Requires the <i>ThinkPad 90W AC Adapter 40Y7659</i> (adapter provided with some systems).	

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter ⁴⁵	40Y7696 ann 01/05/06
⁴⁵ Only compatible with the GM45 chipset models.	
ThinkPad 90W AC Adapter	40Y7659 ann 09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460 ann 11/27/07

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

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460	
•Dual (ThinkPad+Phone) Charging Y-Cable	41R4345 ann 12/18/07
•BlackBerry charge tip (L8a)	41R4478 ann 12/18/07
•iPod and iPhone charge tip (L10a)	41R4481 ann 12/18/07

More information at www.lenovopowertips.com

Carrying Cases	
Up to 14.1" widescreen models:	
ThinkPad Expander Case	43R9118 ann 06/24/08
ThinkPad Women's Microfiber Tote	22P8855
ThinkPad Women's Leather Trim Tote	22P8856
ThinkPad Convertible Carrying Case	22P8860
ThinkPad Women's Executive Leather Tote	22P8857
Women's Executive Red Leather Tote	22P8858

Up to 15.4" widescreen models:	
Lenovo Carrying Case - Messenger Max	41U5253 ann 05/01/07
Lenovo Carr Case - Performance BackPack	41U5254 ann 05/01/07
Lenovo Standard Case	45K1697 ann 11/25/08
Lenovo Standard Backpack	45K1698 ann 11/25/08
Checkpoint Friendly Business Topload Case	51J0418 ann 02/24/09
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

Up to 17.0" widescreen models:	
ThinkPad 17W Business Topload Case	43R9117 ann 08/12/08

Lenovo luxury cases at www.lenovoluxurycases.com

Monitors	
ThinkVision® L174 17" Monitor	9227AE1 ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2 ann 09/17/08
ThinkVision L1900p 19" Monitor	4431HE1 ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6 ann 09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6 ann 04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6 ann 09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2 ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2 ann 09/17/08

Monitor Accessories ⁴⁶	
ThinkVision USB Soundbar	40Y7616 ann 08/23/05
ThinkVision Soundbar	45K1263 ann 09/16/08
Kensington Cable Lock from Lenovo	73P2582 ann 12/29/03
Kensington Twin Head Cable Lock	45K1620 ann 09/30/08
ThinkPad Convertible Monitor Stand	40Y7620 ann 01/05/06
Radial Arm	19K4464 ann 05/05/00
⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.	

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkPad T500



Lenovo ThinkPad T500



Lenovo ThinkPad T500



ThinkPad Business Topload Case
part number 43R2476



Lenovo ThinkPad T500



Lenovo ThinkPad T500

ThinkPad® T500 2242 (GMA) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor GHz	Memory	Wide-screen display	CCFL or LED	Cam era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Blue-tooth	Intel AMT	Pre-load	Avail date
2242-22U	P8400	2.26 2GB	15.4"	WXGA		GMA 160G	5400 DVD±RW		Intel 5100 ²⁸	AT&T ²³		Fing			Bus 32	Aug 08
2242-23U	T9400	2.53 2GB	15.4"	WXGA	Cam	GMA 160G	7200 DVD±RW		Intel 5100	AT&T		Fing Blue			XP Pro	Aug 08
2242-32U	P8400	2.26 2GB	15.4"	WXGA		GMA 160G	7200 DVD±RW		Intel 5100	AT&T		Fing Blue			Bus 32	Aug 08
2242-33U	P8400	2.26 2GB	15.4"	WXGA		GMA 160G	5400 DVD±RW		Intel 5100	WWAN upg		Fing			XP Pro	Aug 08
2242-34U	T9400	2.53 2GB	15.4"	WXGA	Cam	GMA 160G	7200 DVD±RW		Intel 5100	WWAN upg	2G Turbo	Fing Blue			Bus 32	Aug 08
2242-35U	P8400	2.26 2GB	15.4"	WXGA		GMA 160G	7200 DVD±RW		Intel 5100	WWAN upg		Fing Blue			XP Pro	Aug 08
2242-4EU	P8400	2.26 1GB	15.4"	WXGA		GMA 160G	5400 Combo		Intel 5100	AT&T					Bus 32	Aug 08
2242-4FU	P8400	2.26 1GB	15.4"	WXGA		GMA 160G	5400 Combo		Intel 5100	WWAN upg					XP Pro	Aug 08
2242-55U	T9400	2.53 2GB	15.4"	WXGA	Cam	GMA 160G	7200 DVD±RW		Intel 5100	WWAN upg		Fing Blue			XP Pro	Sep 08
2242-5FU	P8400	2.26 1GB	15.4"	WXGA		GMA 160G	5400 DVD±RW		Intel 5100	WWAN upg					XP Pro	Sep 08
2242-5GU	P8400	2.26 2GB	15.4"	WXGA LED		GMA 160G	5400 DVD±RW		Intel 5100	WWAN upg		Fing			XP Pro	Sep 08
2242-5HU	P8400	2.26 2GB	15.4"	WXGA LED		GMA 160G	7200 DVD±RW		Intel 5100	WWAN upg		Fing Blue			XP Pro	Sep 08
2242-6BU	P8600	2.40 2GB	15.4"	WXGA LED		GMA 160G	5400 DVD±RW		WiMAX	WWAN upg		Fing		AMT	Bus 32	Jan 09
2242-6CU	P8600	2.40 2GB	15.4"	WXGA LED	Cam	GMA 128G	SSD DVD±RW		Intel 5100	WWAN upg		Fing Blue		AMT	XP Pro	Jan 09

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

Processor	Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400/P8600: 3MB L2 cache; T9400: 6MB L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ♦ Vista Premium logo Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)
Memory	1GB or 2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	Some: CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) Some: DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel Some: 128GB ⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high Some: 160GB ⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ All: removable, upgradable, supports second disk, Shock Mounted Hard Drive	
Widescreen display	Some: 15.4" (391mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio Some: 15.4" (391mm) WXGA (1280x800) color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 400:1 contrast ratio	
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); Maximum external resolution: 2048x1536@75Hz	
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 15.4W ⁹ (WxDxH): 14.1" x 10" x 1.2-1.3"; 357.5mm x 255mm x 30-34mm 6-cell: starting at 5.9 lb (2.7kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.3 hr; 6-cell plus Ultrabay battery: up to 7.8 hr; 9-cell: up to 9.4 hr	
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)	
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express Intel 5100 ²⁸ WiMAX	Three Mini PCI Express slots Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: 11a/b/g/n and WiMAX wireless ⁴ , Mini PCIe adap, Intel WiMAX/WiFi Link 5350, 3x3 (450Mbps) WiFi + 1x2 WiMAX (Echo Peak)	
WWAN upg AT&T ²³	Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T	
2G Turbo UWB	Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None	
Modem	56K V.92 ⁶ modem	
Bluetooth™	Some: Bluetooth 2.0 wireless, LED indicator	
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1	
Intel AMT	Some: Intel Active Management Technology (IAMT 4.0)	
Audio support	High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip	
Limited warranty ¹²	1-year - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available	
Other accessories on O-T500 sheet	Other accessories at lenovo.com/accessories	ThinkPlus™. ²² 1-year LOR ²⁴ 9x5 NBD 45K5968 ThinkPlus 2-year LOR 9x5 NBD 45K5969 ThinkPlus 3-year LOR 9x5 NBD 45K5970 ThinkPlus 4-year LOR 9x5 NBD 45K5973 ThinkPlus 5-year LOR 9x5 NBD 45K5975 ThinkPlus 2-year P&L P/U Depot 45K5971 ThinkPlus 3-year P&L P/U Depot 45K5972 ThinkPlus 4-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information ♦ Intel Centrino® 2 processor technology

☞ US models announced January 6, 2009; previous models on August 5 or September 23, 2008

 US models withdrawn effective September 2008

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ThinkPad® T500 2243 (GMA) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Blue- tooth	Preload	Avail date
2243-56U	P8400	2.26	2GB	15.4" WXGA	None	GMA	160G 5400	DVD±RW	Intel 5100 ²⁸	WWAN upg	None	Finger	None	XP Pro	Sep 08

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

Processor	Intel® Core™ 2 Duo processor P8400 with dual-core , Intel HD Boost, 1066MHz system bus, and 3MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® - XP Professional with Vista® COA - Vista Premium logo					
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)					
SATA DVD±RW Ultrabay Slim SATA disk	DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™															
Widescreen display Camera	15.4" (391mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio None															
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution:</i> 2048x1536@75Hz															
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions															
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 15.4W" (WxDxH): 14.1" x 10" x 1.2-1.3"; 357.5mm x 255mm x 30-34mm 6-cell: starting at 5.9 lb (2.7kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.3 hr; 6-cell plus Ultrabay battery: up to 7.8 hr; 9-cell: up to 9.4 hr															
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)															
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)										Supports ThinkVantage® technologies					
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None 56K V.92 ⁶ modem None Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 None High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack										65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378					
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant None										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 43R9250 45K6022 ThinkPlus 5-year LOR 9x5 NBD 40Y7659 45K6024 ThinkPlus 4-year P&L P/U Depot 43R2476 45K6023 ThinkPlus 5-year P&L P/U Depot 41N5565 4424HB6 45K6025					
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available															
1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799	2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797	Blu-ray Burner Ultrabay Slim SATA 1.5Gb/s	43N3215	Advanced Ultrabay Battery II 3-cell	43R9250	Serial ATA Hard Drive Bay Adapter II SATA	43R1980	ThinkPad 90W AC Adapter	40Y7659	ThinkPlus 5-year LOR 9x5 NBD
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	90W Slim AC/DC Combo Adapter	41N8460	320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad Business Topload Case	43R2476	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkPad Business Backpack	43R2482	ThinkPlus 4-year P&L P/U Depot	45K6023	ThinkPad Business Backpack	43R2482	ThinkPlus 5-year P&L P/U Depot
USB 2.0 Super Multi-Burner Drive	41N5565	T500/R500/W500 15W Privacy Filter	43R2474	ThinkPad Advanced Dock	250310U	ThinkVision® L1940p Wide 19" Monitor	4424HB6	Verizon WWAN UNDP Broadband	43R9151	ThinkVision L2240p Wide 22" Monitor	4422HB6	Post-warranty annual maintenance agreements at		ThinkVision L2440x Wide 24" Monitor	4421HB2	lenovo.com/thinkplus/warranty
AT&T WWAN HSPA Broadband Mini PCIe	43R9152	Other accessories at lenovo.com/accessories		Other accessories on O-T500 sheet												

See footnotes for important warranty information
US model announced September 23, 2008

• Intel Centrino® 2 processor technology

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(CR5-11) December 2008

ThinkPad® T500 2082 (Switchable) - TopSeller

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Cam- era	Switchable graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery cells	Intel AMT	Preload	Avail date
2082-26U	P8400	2.26	2GB	15.4" WSXGA+	GMA, HD 3650	160G 7200	DVD±RW	Intel 5100 ²⁸	AT&T ²³		9		Bus 32	Aug 08
2082-27U	T9400	2.53	2GB	15.4" WSXGA+ Cam	GMA, HD 3650	160G 7200	DVD±RW	Intel 5100	AT&T		9		XP Pro	Aug 08
2082-3GU	T9400	2.53	2GB	15.4" WSXGA+ Cam	GMA, HD 3650	160G 7200	DVD±RW	Intel 5100	WWAN upg	2G Turbo	9		Bus 32	Aug 08
2082-3HU	P8400	2.26	2GB	15.4" WSXGA+	GMA, HD 3650	160G 7200	DVD±RW	Intel 5100	WWAN upg		9		XP Pro	Aug 08
2082-5XU	T9400	2.53	2GB	15.4" WSXGA+ Cam	GMA, HD 3650	160G 7200	DVD±RW	Intel 5100	WWAN upg		9		XP Pro	Sep 08
2082-7YU	P8600	2.40	2GB	15.4" WSXGA+	GMA, HD 3650	160G 7200	DVD±RW	Intel 5100	WWAN upg	2G Turbo	9	AMT	Bus 32	Jan 09

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

Positioning Processor	Premiere performance; two spindles Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; P8400/P8600: 3MB L2 cache; T9400: 6MB L2 cache										Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ Vista Premium logo			
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ (all OSES) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)			
SATA DVD±RW Ultrabay Slim SATA disk	DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™													
Widescreen display	15.4" (391mm) WSXGA+ (1680x1050) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio													
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus													
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, and ATI™ Mobility Radeon™ HD 3650 , PCI Express x16, 256MB memory, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution: 2048x1536@75Hz</i>													
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 15.4W" (WxDxH): 14.1" x 10" x 1.2-1.3"; 357.5mm x 255mm x 30-34mm 9-cell: starting at 6.2 lb (2.8kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 9-cell, supports unique 2nd battery in Ultrabay Slim 9-cell: up to 9.4 hr; 9-cell plus Ultrabay battery: up to 10.9 hr													
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)													
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34 or ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)													
Mini PCI Express Intel 5100 ²⁸ WWAN upg AT&T ²³ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Some: Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack										Supports ThinkVantage® technologies			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
Limited warranty ¹² 3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available	1GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2045 2GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2046 Blu-ray Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 43N3406 320GB Disk SATA 1.5Gb/s (7200 rpm) 43N3411 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ThinkPad Advanced Dock 250310U Verizon WWAN UNDP Broadband 43R9151 AT&T WWAN HSPA Broadband Mini PCIe 43R9152 Other accessories on O-T500 sheet										T/R/W/SL Series Li-Ion Battery 6-cell 40Y6799 T/R/W/SL Series Li-Ion Battery 9-cell 40Y6797 Advanced Ultrabay Battery II 3-cell 43R9250 ThinkPad 90W AC Adapter 40Y7659 90W Slim AC/DC Combo Adapter 41N8460 ThinkPad Business Topload Case 43R2476 T500/R500/W500 15W Privacy Filter 43R2474 ThinkVision® L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440x Wide 24" Monitor 4421HB2 Other accessories at lenovo.com/accessories			

See footnotes for important warranty information

◆ Intel Centrino® 2 processor technology

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Ⓜ US model announced January 6, 2009; previous models on August 5 or September 23, 2008

(CR-5) January 2009

Ⓧ US model withdrawn effective September 2008

Type-model	Proc- essor GHz	Memory	Wide- screen display	CCFL or LED	Cam- era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe Bat- tery UWB or Turbo	Blue/Car- d Fing slot	Whorse (W) Gbl (G) Avail date
2089-2JU	P8400	2.26	1GB	15.4"	WXGA		GMA 80G 5400 Combo	Intel 5100 ²⁸	WWAN upg		6 Yes	PC	B32 G Aug 08
2089-2KU	T9400	2.53	2GB	15.4"	WXGA		GMA 160G 5400 DVD±RW	Intel 5100	WWAN upg	2G Turbo	6 Yes	PC	B32 WG Aug 08
2089-2LU	T9400	2.53	2GB	15.4"	WXGA		GMA 160G 5400 DVD±RW	Intel 5100	Verizon ¹⁶	2G Turbo	9 Yes	PC	B32 W Aug 08
2089-2MU	T9400	2.53	2GB	15.4"	WXGA		GMA 160G 7200 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	B32 W Aug 08
2089-3HU	T9400	2.53	2GB	15.4"	WXGA		GMA 160G 5400 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	B32 G Aug 08
2089-3JU	T9400	2.53	2GB	15.4"	WXGA		GMA 160G 5400 DVD±RW	Intel 5100	AT&T ²³	2G Turbo	9 Yes	PC	B32 W Aug 08
2089-4XU	T9400	2.53	2GB	15.4"	WXGA	LED	GMA 160G 5400 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	B32 WG Sep 08
2089-58U	T9400	2.53	2GB	15.4"	WXGA		GMA 160G 5400 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	XP G Sep 08
2089-59U	P8400	2.26	1GB	15.4"	WXGA		GMA 80G 5400 Combo	Intel 5100	WWAN upg		6 Yes	PC	XP Sep 08
2089-5WU	P8600	2.40	2GB	15.4"	WSXGA+		GMA 160G 5400 DVD±RW	Intel 5100	WWAN upg		6	Smart	B32 TAA Oct 08
2089-5ZU	P8600	2.40	2GB	15.4"	WXGA	LED	GMA 160G 5400 DVD±RW	Intel 5100	WWAN upg		6 Yes	PC	B32 WG Dec 08
US Govt (TAA) ⁵ Processor	5WU: US Government model (Trade Act Agreement-compliant) 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												
Memory	1GB or 2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available												
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) <i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 80GB⁸ (5400 rpm) or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System TM												
Widescreen display	<i>Some:</i> 15.4" (391mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 15.4" (391mm) WXGA (1280x800) color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 400:1 contrast ratio <i>Some:</i> 15.4" (391mm) WSXGA+ (1680x1050) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio												
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus												
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution:</i> 2048x1536@75Hz (VGA, DisplayPort)												
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 15.4W" (WxDxH): 14.1" x 10" x 1.2-1.3"; 357.5mm x 255mm x 30-34mm 6-cell: starting at 5.9 lb (2.7kg); 9-cell: starting at 6.2 lbs (2.8kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.3 hr; 6-cell plus Ultrabay battery: up to 7.8 hr; 9-cell: up to 9.4 hr												
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)												
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) <i>Some:</i> One slot (Type I, Type II), CardBus 32-bit <i>Some:</i> Smart Card reader 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Mini PCI Express Intel 5100 ²⁸ WWAN upg Verizon ¹⁶ AT&T ²³ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some:</i> Wireless WAN, Qualcomm chipset, Mini PCIe adapter and SIM, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, service contract reqd with Verizon <i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole												
Security Security chip Fingerprint reader	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip												
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available												
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM 320GB Disk SATA 1.5Gb/s (7200 rpm) Other accessories on O-T500 sheet	43R1987 43R1988 43N3411 T/R/W/SL Series Li-Ion Battery 9-cell 40Y6797 90W Slim AC/DC Combo Adapter 41N8460 ThinkVision® L2440x Wide 24" Monitor 4421HB2 Other accessories at lenovo.com/accessories												
										Preloaded operating system²⁰ - <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA - <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit) ◇ Vista Premium logo			
										Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)			
										Supports ThinkVantage® technologies			
										65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Gold rating (LED models) EPEAT Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175			
										ThinkPlus 3-year LOR 9x5 NBD 45K6021			
										ThinkPlus 4-year LOR 9x5 NBD 45K6022			
										ThinkPlus 5-year LOR 9x5 NBD 45K6024			
										ThinkPlus 4-year P&L P/U Depot 45K6023			
										ThinkPlus 5-year P&L P/U Depot 45K6025			
										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			

See footnotes for important warranty information

◇ Intel Centrino® 2 with vPro™ technology

Ⓜ US model announced December 2, 2008; previous models on Aug 5, Sep 23, or October 7, 2008

Type-model	Processor	Memory	Wide-screen display	CCFL or LED	Camera	Switchable graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo slot	Battery Card	Blue/Global (G)Avail	Workhorse (W) Fing/Preload	date
2055-2BU	T9400	2.53 2GB	15.4" WSXGA+			GMA, 3650	80G 5400 Combo		Intel 5100 ²⁸	WWAN	upg	PC 6	Yes	B32	G Aug 08
2055-2CU	T9400	2.53 2GB	15.4" WSXGA+			GMA, 3650	160G 5400 DVD±RW		Intel 5100	WWAN	upg	PC 6	Yes	B32	W G Aug 08
2055-2EU	T9400	2.53 2GB	15.4" WSXGA+			GMA, 3650	160G 7200 DVD±RW		Intel 5100	Verizon ¹⁶	2G PC	9	Yes	B32	W Aug 08
2055-3AU	T9600	2.80 4GB	15.4" WSXGA+		Cam	GMA, 3650	160G 7200 DVD±RW		Intel 5100	WWAN	upg 2G	PC 9	Yes	B32	W G Aug 08
2055-45U	T9400	2.53 2GB	15.4" WSXGA+			GMA, 3650	160G 7200 DVD±RW		Intel 5100	WWAN	upg	PC 9	Yes	B32	G Aug 08
2055-2DU	T9400	2.53 2GB	15.4" WSXGA+		Cam	GMA, 3650	160G 7200 DVD±RW		Intel 5100	WWAN	upg UWB	BPC 6	Yes	B32	W Sep 08
2055-2VU	T9400	2.53 2GB	15.4" WSXGA+		Cam	GMA, 3650	160G 7200 DVD±RW		Intel 5300 ²⁸	WWAN	upg UWB	Smart 9		B32	Sep 08
2055-5TU	T9400	2.53 2GB	15.4" WXGA	LED	Cam	GMA, 3650	160G 7200 DVD±RW		Intel 5300	WWAN	upg	PC 9	Yes	B32	W G Sep 08
2055-5UU	T9400	2.53 2GB	15.4" WXGA	LED	Cam	GMA, 3650	64G SSD DVD±RW		Intel 5300	WWAN	upg	PC 9	Yes	B32	Sep 08
2055-63U	T9400	2.53 2GB	15.4" WSXGA+			GMA, 3650	160G 7200 DVD±RW		Intel 5100	WWAN	upg	PC 9	Yes	XP	G Sep 08
2055-7GU	T9400	2.53 2GB	15.4" WSXGA+			GMA, 3650	160G 7200 DVD±RW		Intel 5300	WWAN	upg	Smart 9		B32	TAA Oct 08
2055-7LU	P8600	2.40 2GB	15.4" WSXGA+			GMA, 3650	160G 7200 DVD±RW		Intel 5100	WWAN	upg	PC 9	Yes	B32	W G Dec 08
US Govt (TAA) ⁵ Processor	7GU: US Government model (Trade Act Agreement-compliant) Intel® Core™ 2 Duo processor P8600, T9400, or T9600 with dual-core, Intel HD Boost, 1066MHz system bus; P8600: 3MB L2 cache; T9400/T9600: 6MB L2 cache											Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ Vista Premium logo			
Memory	2GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available											Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)			
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) <i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel <i>Some:</i> 64GB ⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high; <i>Some:</i> 80GB ⁸ (5400 rpm), 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, shock mounted storage														
Widescreen display	<i>Some:</i> 15.4" (391mm) WXGA (1280x800) color, anti-glare, LED backlight, 190 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus														
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus											Supports ThinkVantage® technologies			
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, and ATI™ Mobility Radeon™ HD 3650, PCI Express x16, 256MB memory, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); Maximum external resolution: 2048x1536@75Hz (VGA, DisplayPort)														
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 15.4W" (WxDxH): 14.1" x 10" x 1.2–1.3"; 357.5mm x 255mm x 30–34mm 6-cell: starting at 5.9 lb (2.7kg); 9-cell: starting at 6.2 lbs (2.8kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.3 hr; 6-cell plus Ultrabay battery: up to 7.8 hr; 9-cell: up to 9.4 hr														
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)														
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) <i>Some:</i> One slot (Type I, Type II), CardBus 32-bit <i>Some:</i> Smart Card reader 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Mini PCI Express	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) <i>Some:</i> Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some:</i> Wireless WAN, Qualcomm chipset, Mini PCIe adapter and SIM, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, service contract reqd with Verizon														
2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	<i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator <i>Some:</i> Wireless USB based on Ultra-Wideband (UWB), Half-Mini PCIe adapter 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boozman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack														
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports security chip														
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available														
2GB PC3-8500 DDR3 SODIMM 320GB Disk SATA 1.5Gb/s (7200 rpm) Other accessories on O-T500 sheet	43R1988 43N3411	90W Slim AC/DC Combo Adapter ThinkVision® L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	41N8460 4421HB2	Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty											

See footnotes for important warranty information

◆ Intel Centrino® 2 with vPro™ technology

Ⓜ US model announced December 2, 2008; previous models on Aug 5, Sep 23, or October 7, 2008

Type-model	Proc- essor GHz	Memory	Wide- screen display	CCFL or LED	Cam- era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue- tooth	Whorse (W) GMP (P) Avail Gbl (G) date
2241-3WUP	P8400	2.26 1GB	15.4" WXGA			GMA 80G	5400 Combo	Intel 5100 ²⁸	WWAN upg		6	Blue Bus 32	GP Aug 08
2241-3XU	T9400	2.53 2GB	15.4" WXGA		Cam	GMA 160G	5400 DVD±RW	Intel 5100	WWAN upg	2G Turbo	6	Blue Bus 32	WGP Aug 08
2241-3YU	T9400	2.53 2GB	15.4" WXGA		Cam	GMA 160G	5400 DVD±RW	Intel 5100	WWAN upg		6	Blue Bus 32	GP Aug 08
2241-4XU	T9400	2.53 2GB	15.4" WXGA	LED	Cam	GMA 160G	5400 DVD±RW	Intel 5100	WWAN upg		6	Blue Bus 32	WGP Sep 08
2241-58U	T9400	2.53 2GB	15.4" WXGA			GMA 160G	5400 DVD±RW	Intel 5100	WWAN upg		6	Blue XP Pro	GP Sep 08
2241-5ZU	P8600	2.40 2GB	15.4" WXGA	LED		GMA 160G	5400 DVD±RW	Intel 5100	WWAN upg		6	Blue Bus 32	WGP Dec 08
<p>• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty</p>													
Positioning Processor	<p>Premiere performance; two spindles 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</p>											<p>Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ♦ Vista Premium logo</p>	
Memory	<p>1GB or 2GB std / 8GB max⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available</p>											<p>Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)</p>	
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	<p><i>Some:</i> CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) <i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 80GB⁸ (5400 rpm), 160GB (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>												
Widescreen display	<p><i>Some:</i> 15.4" (391mm) WXGA (1280x800) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 15.4" (391mm) WXGA (1280x800) color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 400:1 contrast ratio</p>												
Camera	<p><i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus</p>												
Integrated graphics	<p>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution:</i> 2048x1536@75Hz</p>												
Keyboard TrackPoint® Touch pad ThinkLight™	<p>89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions</p>												
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	<p><i>6-cell 15.4W" (WxDxH):</i> 14.1" x 10" x 1.2-1.3"; 357.5mm x 255mm x 30-34mm <i>6-cell:</i> starting at 5.9 lb (2.7kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 6.3 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.8 hr; <i>9-cell:</i> up to 9.4 hr</p>												
Chipset	<p>Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)</p>												
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	<p>One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)</p>												
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	<p>Three Mini PCI Express slots 11a/b/g/n wireless²⁸, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack</p>											<p>Supports ThinkVantage® technologies</p>	
Security Security chip Fingerprint reader	<p>Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip</p>											<p>65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Gold rating (LED models) EPEAT Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>	
Limited warranty ¹²	<p>3-years/1-year battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades²² available</p>											<p>ThinkPlus™²² 4-year LOR 9x5 NBD 45K6038</p>	
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Super Multi-Burner Drive ThinkPad Advanced Dock Verizon WWAN UNDP Broadband AT&T WWAN HSPA Broadband Mini PCIe Laser Tilt Wheel Travel Mouse (Bluetooth) Other accessories on O-T500 sheet	43R1987 43R1988 43N3406 43N3411 43R2019 41N5565 250310U 43R9151 43R9152 41U5008	T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack DisplayPort to Single-link DVI-D Cable T500/R500/W500 15W Privacy Filter ThinkVision® L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	40Y6799 40Y6797 43R9250 41N8460 43R2476 43R2482 45J7915 43R2474 4422HB6 4421HB2										
<p>See footnotes for important warranty information ♦ Intel Centrino® 2 with vPro™ technology © Lenovo US model announced December 2, 2008; previous models on August 5 or September 23, 2008 (CR5-5) December 2008</p>													

ThinkPad® T500 2056 (Switchable) - Onsite

Personal Systems Reference (PSREF)

Type-model	Proc- essor	Mem- ory	Wide- screen display	Wide- screen display	CCFL or LED	Cam- era	Switchable graphics	Disk SATA GB ⁵ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Preload	Whorse (W) GMP (P) Avail Gbl (G) date
2056-4PU	T9400	2.53 2GB	15.4" WSXGA+	15.4" WSXGA+			GMA, 3650	80G 5400 Combo		Intel 5100 ²⁸	WWAN upg		6 B32	GP Aug 08
2056-4QU	T9400	2.53 2GB	15.4" WSXGA+	15.4" WSXGA+			GMA, 3650	160G 5400 DVD±RW		Intel 5100	WWAN upg		6 B32	WGP Aug 08
2056-4RU	T9400	2.53 2GB	15.4" WSXGA+	15.4" WSXGA+			GMA, 3650	160G 7200 DVD±RW		Intel 5100	WWAN upg		9 B32	GP Aug 08
2056-4SU	T9600	2.80 4GB	15.4" WSXGA+	15.4" WSXGA+		Cam	GMA, 3650	160G 7200 DVD±RW		Intel 5100	WWAN upg	2G Turbo	9 B32	WGP Aug 08
2056-5TU	T9400	2.53 2GB	15.4" WXGA	15.4" WXGA		LED Cam	GMA, 3650	160G 7200 DVD±RW		Intel 5300 ²⁸	WWAN upg		9 B32	WGP Sep 08
2056-63U	T9400	2.53 2GB	15.4" WSXGA+	15.4" WSXGA+			GMA, 3650	160G 7200 DVD±RW		Intel 5100	WWAN upg		9 XP	GP Sep 08
2056-7LU	P8600	2.40 2GB	15.4" WSXGA+	15.4" WSXGA+			GMA, 3650	160G 7200 DVD±RW		Intel 5100	WWAN upg		9 B32	WGP Dec 08
<p>• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty</p>														
Processor	Intel® Core™ 2 Duo processor P8600, T9400, or T9600 with dual-core, Intel HD Boost, 1066MHz system bus; P8600: 3MB L2 cache; T9400/T9600: 6MB L2 cache											Preloaded operating system ²⁰		
Memory	2GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available											- Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ Vista Premium logo		
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	Some: CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) Some: DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 80GB ⁸ (5400 rpm), 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											Preloaded applications ¹⁴ (all OSes)		
Widescreen display	Some: 15.4" (391mm) WXGA (1280x800) color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 400:1 contrast ratio Some: 15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio											• Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models)		
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus											• Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)		
Switchable graphics	Dynamic switching between discrete and integrated graphics (user selectable), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, and ATI™ Mobility Radeon™ HD 3650, PCI Express x16, 256MB memory, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); Maximum external resolution: 2048x1536@75Hz													
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 15.4W" (WxDxH): 14.1" x 10" x 1.2-1.3"; 357.5mm x 255mm x 30-34mm 6-cell: starting at 5.9 lb (2.7kg); 9-cell: starting at 6.2 lbs (2.8kg) Black Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.3 hr; 6-cell plus Ultrabay battery: up to 7.8 hr; 9-cell: up to 9.4 hr													
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)													
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)													
Mini PCI Express	Three Mini PCI Express slots Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wi-Fi Link 5100, 1x2 (Shirley Peak) Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wi-Fi Link 5300, 3x3 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator													
Modem Bluetooth™ Ethernet Intel AMT Audio support	56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack											Supports ThinkVantage® technologies		
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip											90-watt (ATI graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Gold rating (LED models) EPEAT Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378		
Limited warranty ¹²	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available													
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Portable Secure 320GB Hard Disk ThinkPad Advanced Dock Verizon WWAN UNDP Broadband AT&T WWAN HSPA Broadband Mini PCIe Other accessories on O-T500 sheet	43R1987 43R1988 43N3406 43N3411 43R2019 250310U 43R9151 43R9152		T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case T500/R500/W500 15W Privacy Filter ThinkVision® L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories		40Y6797 43R9250 41N8460 43R2476 43R2474 4424HB6 4422HB6 4421HB2									
<p>See footnotes for important warranty information</p>														

See footnotes for important warranty information

Intel Centrino® 2 with vPro™ technology

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US model announced December 2, 2008; previous models on August 5 or September 23, 2008

(CR5-6) December 2008

ThinkPad® T500 2089 (GMA) - Education (EasyServ)

Personal Systems Reference (PSREF)

Type-model	Proc- essor GHz	Memory	Wide- screen display	CCFL or LED	Cam- era	Integrated graphics	Disk SATA GB ⁵ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe Bat- tery UWB or Turbo	Blue- tooth	Workhorse (W) Global (G) Avail Preload date
2089-E1U	P8400	2.26 2GB	15.4" WXGA		Cam	GMA 160G 5400	DVD±RW	Intel 5100 ²⁸	WWAN upg	None	6	Blue	Bus 32 No Aug 08
2089-E2U	T9400	2.53 2GB	15.4" WXGA		Cam	GMA 250G 5400	DVD±RW	Intel 5100	WWAN upg	None	6	Blue	Bus 32 No Aug 08
2089-E3U	T9400	2.53 2GB	15.4" WXGA		Cam	GMA 160G 7200	DVD±RW	Intel 5100	WWAN upg	None	9	Blue	Bus 32 No Aug 08
2089-E4U	P8600	2.40 2GB	15.4" WXGA	LED	Cam	GMA 160G 7200	DVD±RW	Intel 5100	WWAN upg	None	6	Blue	Bus 32 No Dec 08
<p>• These models have an EasyServ™,19 depot repair service 3-year limited warranty These educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>													
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; <i>P8400/P8600</i> : 3MB L2 cache; <i>T9400</i> : 6MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) - Vista Premium logo		
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ • Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)		
SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (5400 or 7200 rpm), or 250GB (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Widescreen display	<i>Some:</i> 15.4" (391mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 15.4" (391mm) WXGA (1280x800) color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 400:1 contrast ratio												
Camera	Camera on top of screen, 1.3-megapixel, fixed focus												
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution:</i> 2048x1536@75Hz												
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	<i>6-cell 15.4W"</i> (WxDxH): 14.1" x 10" x 1.2-1.3"; 357.5mm x 255mm x 30-34mm <i>6-cell:</i> starting at 5.9 lb (2.7kg); <i>9-cell:</i> starting at 6.2 lbs (2.8kg) Black <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 6.3 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.8 hr; <i>9-cell:</i> up to 9.4 hr												
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)												
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip												
Limited warranty ¹²	3-years/1-yr battery - EasyServ™,19 depot repair service / service upgrades²² available										Supports ThinkVantage® technologies		
1GB PC3-8500 DDR3 SODIMM	43R1987		T/R/W/SL Series Li-Ion Battery 6-cell		40Y6799								
2GB PC3-8500 DDR3 SODIMM	43R1988		T/R/W/SL Series Li-Ion Battery 9-cell		40Y6797								
Blu-ray Burner Ultrabay Slim SATA 1.5Gb/s	43N3215		Advanced Ultrabay Battery II 3-cell		43R9250								
Serial ATA Hard Drive Bay Adapter II SATA	43R1980		ThinkPad 90W AC Adapter		40Y7659								
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406		90W Slim AC/DC Combo Adapter		41N8460								
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411		ThinkPad Business Topload Case		43R2476								
USB 2.0 Portable Secure 320GB Hard Disk	43R2019		ThinkPad Business Backpack		43R2482								
USB 2.0 Super Multi-Burner Drive	41N5565		T500/R500/W500 15W Privacy Filter		43R2474								
ThinkPad Advanced Dock	250310U		ThinkVision® L1940p Wide 19" Monitor		4424HB6								
Verizon WWAN UNDP Broadband	43R9151		ThinkVision L2240p Wide 22" Monitor		4422HB6								
AT&T WWAN HSPA Broadband Mini PCIe	43R9152		ThinkVision L2440x Wide 24" Monitor		4421HB2								
Other accessories on O-T500 sheet	Other accessories at lenovo.com/accessories										65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378		
										ThinkPlus™,22 2-year LOR ²⁴ 9x5 NBD 41C9175			
										ThinkPlus 3-year LOR 9x5 NBD 45K6021			
										ThinkPlus 4-year LOR 9x5 NBD 45K6022			
										ThinkPlus 5-year LOR 9x5 NBD 45K6024			
										ThinkPlus 4-year P&L P/U Depot 45K6023			
										ThinkPlus 5-year P&L P/U Depot 45K6025			
										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			

See footnotes for important warranty information

✦ Intel Centrino® 2 with vPro™ technology

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US model announced December 2, 2008; previous models on August 5, 2008

(CR5-7) December 2008

ThinkPad® T500 2055 (Switchable) - Education (EasyServ)

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Switchable graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo cells	Battery	Workhorse (W) Global (G) Avail date
2055-E1U	T9400	2.53	2GB	15.4" WSXGA+	Cam GMA, HD	3650	160G 7200	DVD±RW	Intel 5100	WWAN upg	None	9	Bus32 No Aug 08
2055-E2U	T9400	2.53	2GB	15.4" WSXGA+	Cam GMA, HD	3650	250G 5400	DVD±RW	Intel 5100	WWAN upg	None	9	Bus32 No Aug 08

• **These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T9400 with dual-core , Intel HD Boost, 1066MHz system bus, and 6MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ♦ Vista Premium logo		
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ • Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr – Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)		
SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (7200 rpm) or 250GB⁸ (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Widescreen display	15.4" (391mm) WSXGA+ (1680x1050) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio												
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus												
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, and ATI™ Mobility Radeon™ HD 3650 , PCI Express x16, 256MB memory, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution:</i> 2048x1536@75Hz												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys												
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass												
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label												
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	6-cell 15.4W" (WxDxH): 14.1" x 10" x 1.2–1.3"; 357.5mm x 255mm x 30–34mm												
Weight ²	9-cell: starting at 6.2 lb (2.8kg)												
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic												
Battery - type	Lithium Ion 9-cell , supports unique 2nd battery in Ultrabay Slim												
Battery - life ¹⁰	9-cell: up to 9.4 hr; 9-cell plus Ultrabay battery: up to 10.9 hr												
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)												
ExpressCard slot	One ExpressCard/34 or ExpressCard/54												
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit												
Smart Card Read	None												
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)												
Ports	Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Mini PCI Express Intel 5100 ²⁸	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)										Supports ThinkVantage® technologies		
WWAN upg	Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)												
2G Turbo	None												
UWB	None												
Modem	56K V.92 ⁶ modem												
Bluetooth™	Bluetooth 2.0 wireless, LED indicator												
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1												
Intel AMT	Intel Active Management Technology (IAMT 4.0)												
Audio support	High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack												
Security	Power-on password, hard disk password, supervisor password, security keyhole												
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant												
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip												
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available										ThinkPlus™. ²² 2-year LOR ²⁴ 9x5 NBD 41C9175		
1GB PC3-8500 DDR3 SODIMM	43R1987				T/R/W/SL Series Li-Ion Battery 6-cell				40Y6799				
2GB PC3-8500 DDR3 SODIMM	43R1988				T/R/W/SL Series Li-Ion Battery 9-cell				40Y6797				
Blu-ray Burner Ultrabay Slim SATA 1.5Gb/s	43N3215				Advanced Ultrabay Battery II 3-cell				43R9250				
Serial ATA Hard Drive Bay Adapter II SATA	43R1980				ThinkPad External Battery Charger				40Y7625				
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406				ThinkPad 90W AC Adapter				40Y7659				
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411				90W Slim AC/DC Combo Adapter				41N8460				
USB 2.0 Portable Secure 320GB Hard Disk	43R2019				ThinkPad Business Topload Case				43R2476				
USB 2.0 Super Multi-Burner Drive	41N5565				ThinkPad Business Backpack				43R2482				
ThinkPad Adjustable Notebook Stand	40Y7676				T500/R500/W500 15W Privacy Filter				43R2474				
ThinkPad Advanced Dock	250310U				ThinkVision® L1940p Wide 19" Monitor				4424HB6				
Verizon WWAN UNDP Broadband	43R9151				ThinkVision L2240p Wide 22" Monitor				4422HB6				
AT&T WWAN HSPA Broadband Mini PCIe	43R9152				ThinkVision L2440p Wide 24" Monitor				4420HB2				
Other accessories on O-T500 sheet											Other accessories at lenovo.com/accessories		

See footnotes for important warranty information
US models announced August 5, 2008

♦ Intel Centrino® 2 with vPro™ technology

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(CR5-8) August 2008

ThinkPad® T500 2241 (GMA) - Education (Onsite)

Type-model	Proc- essor GHz	Memory	Wide- screen display	CCFL or LED	Cam- era	Integrated graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue- tooth	Workhorse (W) Global (G) Avail date
2241-E1U	P8400	2.26 2GB	15.4" WXGA		Cam	GMA	160G 5400	DVD±RW	Intel 5100 ²⁸	WWAN upg	None	6 Blue Bus 32	No Aug 08
2241-E2U	T9400	2.53 2GB	15.4" WXGA		Cam	GMA	250G 5400	DVD±RW	Intel 5100	WWAN upg	None	6 Blue Bus 32	No Aug 08
2241-E3U	T9400	2.53 2GB	15.4" WXGA		Cam	GMA	160G 7200	DVD±RW	Intel 5100	WWAN upg	None	9 Blue Bus 32	No Aug 08
2241-E4U	P8600	2.40 2GB	15.4" WXGA	LED	Cam	GMA	160G 7200	DVD±RW	Intel 5100	WWAN upg	None	6 Blue Bus 32	No Dec 08
<p>• These models have a limited onsite service²⁴ 3-year limited warranty</p> <p>These educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>													
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor P8400, P8600, or T9400 with dual-core, Intel HD Boost, 1066MHz system bus; <i>P8400/P8600</i> : 3MB L2 cache; <i>T9400</i> : 6MB L2 cache											Preloaded operating system ²⁰	
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics</i> : standard memory in both sockets; no sockets available; <i>Non-italics</i> : standard memory in one socket; one socket available											<ul style="list-style-type: none"> - Microsoft® Windows® Vista® Business Edition (32-bit) ◇ Vista Premium logo 	
SATA DVD±RW Ultrabay Slim SATA disk	<i>Some</i> : DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (5400 or 7200 rpm) or 250GB (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											<ul style="list-style-type: none"> • Preloaded applications¹⁴ • Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection <ul style="list-style-type: none"> - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW) 	
Widescreen display	<i>Some</i> : 15.4" (391mm) WXGA (1280x800) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some</i> : 15.4" (391mm) WXGA (1280x800) color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 400:1 contrast ratio												
Camera	Camera on top of screen, 1.3-megapixel, fixed focus												
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution: 2048x1536@75Hz</i>												
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	6-cell 15.4W" (WxDxH): 14.1" x 10" x 1.2-1.3"; 357.5mm x 255mm x 30-34mm 6-cell: starting at 5.9 lb (2.7kg); 9-cell: starting at 6.2 lbs (2.8kg) Black <i>Top</i> : Super-Elastic PolyCarbonate (SEPC); <i>Bottom</i> : Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Slim 6-cell: up to 6.3 hr; 6-cell plus Ultrabay battery: up to 7.8 hr; 9-cell: up to 9.4 hr												
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)												
ExpressCard/54 PC Card Smart Card read Multicard reader Ports	One slot (ExpressCard/34, ExpressCard/54) One slot (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick PRO™, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, Displayport), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip											Supports ThinkVantage® technologies	
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available											<ul style="list-style-type: none"> 65-watt (GMA graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378 	
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Blu-ray Burner Ultrabay Slim SATA 1.5Gb/s 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Super Multi-Burner Drive ThinkPad Advanced Dock Verizon WWAN UNDP Broadband AT&T WWAN HSPA Broadband Mini PCIe Laser Tilt Wheel Travel Mouse (Bluetooth) Other accessories on O-T500 sheet	43R1987 43R1988 43N3215 43N3406 43N3411 43R2019 41N5565 250310U 43R9151 43R9152 41U5008	T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell ThinkPad External Battery Charger 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Deluxe Expander Case T500/R500/W500 15W Privacy Filter ThinkVision® L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	40Y6799 40Y6797 43R9250 40Y7625 41N8460 43R2476 43R2478 43R2474 4424HB6 4422HB6 4421HB2										
											<ul style="list-style-type: none"> ThinkPlus™.22 4-year LOR 9x5 NBD 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty 		

See footnotes for important warranty information

◆ Intel Centrino® 2 with vPro™ technology

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Ⓢ US model announced December 2, 2008; previous models on August 5, 2008

(CR5-9) December 2008

ThinkPad® T500 2056 (Switchable) - Education (Onsite)

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Wide-screen display	Camera	Switchable graphics	Disk SATA GB ³ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo cells	Battery	Workhorse (W) Global (G) Avail date
2056-E1U	T9400	2.53	2GB	15.4" WSXGA+	Cam	GMA, HD 3650	160G 7200	DVD±RW	Intel 5100	WWAN upg	None	9	No Aug 08
2056-E2U	T9400	2.53	2GB	15.4" WSXGA+	Cam	GMA, HD 3650	250G 5400	DVD±RW	Intel 5100	WWAN upg	None	9	No Aug 08

• **These models have a limited onsite service²⁴ 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ 2 Duo processor T9400 with dual-core , Intel HD Boost, 1066MHz system bus, and 6MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ◇ Vista Premium logo		
Memory	2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ • Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr – Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)		
SATA Combo SATA DVD±RW Ultrabay Slim SATA disk	<i>Some:</i> CD-RW/DVD-ROM, SATA 1.5Gb/s, 9.5mm Ultrabay Slim, removable (43N3213) <i>Some:</i> DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (7200 rpm) or 250GB (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Widescreen display	15.4" (391mm) WSXGA+ (1680x1050) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus												
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus												
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45, and ATI™ Mobility Radeon™ HD 3650 , PCI Express x16, 256MB memory, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution: 2048x1536@75Hz</i>												
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	<i>6-cell 15.4W"</i> (WxDxH): 14.1" x 10" x 1.2–1.3"; 357.5mm x 255mm x 30–34mm <i>9-cell:</i> starting at 6.2 lb (2.8kg) <i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell , supports unique 2nd battery in Ultrabay Slim <i>9-cell:</i> up to 9.4 hr; <i>9-cell plus Ultrabay battery:</i> up to 10.9 hr												
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O) One ExpressCard/34 or ExpressCard/54 One Type I or Type II slot, CardBus 32-bit												
ExpressCard slot PC Card Std slot Smart Card Read Multicard Reader Ports	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), 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 ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) WWAN upg Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) 2G Turbo None UWB None Modem 56K V.92 ⁶ modem Bluetooth™ Bluetooth 2.0 wireless, LED indicator Ethernet Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel AMT Intel Active Management Technology (IAMT 4.0) Audio support High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack												
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip										Supports ThinkVantage® technologies		
Limited warranty ¹²	3-years /1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available										90-watt (ATI graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378		
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Blu-ray Burner Ultrabay Slim SATA 1.5Gb/s Serial ATA Hard Drive Bay Adapter II SATA 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Super Multi-Burner Drive ThinkPad Adjustable Notebook Stand ThinkPad Advanced Dock Verizon WWAN UNDP Broadband AT&T WWAN HSPA Broadband Mini PCIe	43R1987 43R1988 43N3215 43R1980 43N3406 43N3411 43R2019 41N5565 40Y7676 250310U 43R9151 43R9152	T/R/W/SL Series Li-Ion Battery 6-cell T/R/W/SL Series Li-Ion Battery 9-cell Advanced Ultrabay Battery II 3-cell ThinkPad External Battery Charger 90W Slim AC/DC Combo Adapter ThinkPad Business Topload Case ThinkPad Business Backpack T500/R500/W500 15W Privacy Filter ThinkVision® L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440p Wide 24" Monitor Other accessories at lenovo.com/accessories	40Y6799 40Y6797 43R9250 40Y7625 41N8460 43R2476 43R2482 43R2474 4424HB6 4422HB6 4420HB2										
										ThinkPlus™.22 4-year LOR 9x5 NBD 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			

See footnotes for important warranty information
US models announced August 5, 2008

◆ Intel Centrino® 2 with vPro™ technology

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(CR5-10) August 2008

ThinkPad®



Lenovo ThinkPad W500



Lenovo ThinkPad W500



Lenovo ThinkPad W500



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Lenovo ThinkPad W500



Lenovo ThinkPad W500

ThinkPad® W500 4062 (Switchable) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Proc-essor	GHz	Memory	Wide-screen display	Cam-era	Switchable graphics	Disk SATA GB ³ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo cells	Battery Preload	Avail date
4062-24U	T9600	2.80	2GB	15.4" WUXGA	Cam GMA, V5700	160G 7200	DVD±RW	Intel 5100 ²⁸	AT&T ²³	2G Turbo	9	Bus 32 Aug 08	
✗ 4062-25U	T9600	2.80	4GB	15.4" WUXGA	Cam GMA, V5700	200G 7200 FDE	DVD±RW	Intel 5100	AT&T	9	Bus 64 Aug 08		
4062-26U	T9600	2.80	4GB	15.4" WUXGA	Cam GMA, V5700	200G 7200 FDE	DVD±RW	Intel 5100	WWAN upg	9	Bus 32 Aug 08		
4062-27U	T9600	2.80	2GB	15.4" WUXGA	Cam GMA, V5700	160G 7200	DVD±RW	Intel 5100	WWAN upg	9	XP Pro Aug 08		
✗ 4062-35U	T9600	2.80	2GB	15.4" WUXGA	Cam GMA, V5700	160G 7200	DVD±RW	Intel 5100	WWAN upg	9	XP Pro Sep 08		
✗ 4062-36U	T9400	2.53	2GB	15.4" WSXGA+	Cam GMA, V5700	160G 7200	DVD±RW	Intel 5100	WWAN upg	9	XP Pro Sep 08		

• These small and medium business (SMB) models are part of the US TopSeller™ Program
 • Power-packed engineering with Open GL graphics and ISV certifications

Positioning Processor	Mobile workstation; two spindles Intel® Core™ 2 Duo processor T9400 or T9600 with dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) ♦ Vista Premium logo Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)
Memory	2GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	
SATA DVD±RW Ultrabay Slim SATA disk	DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB ⁸ (7200 rpm), or 200GB (7200 rpm) Full Disk Encryption [FDE] / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Widescreen display	Some: 15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio Some: 15.4" (391mm) WUXGA (1920x1200) color, anti-glare, CCFL backlight, 175 nits, 16:10 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 1.3-megapixel, fixed focus	
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, and ATI™ Mobility FireGL™ V5700, PCI Express x16, 512MB memory, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); Maximum external resolution: 2048x1536@75Hz	
Keyboard TrackPoint® Touch pad ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	6-cell 15.4W" (WxDxH): 14.1" x 10" x 1.2-1.3"; 357.5mm x 255mm x 30-34mm 9-cell: starting at 6.2 lb (2.8kg) Top: Super-Elastic PolyCarbonate (SEPC); Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 9-cell, supports unique 2nd battery in Ultrabay Slim 9-cell: up to 9.4 hr; 9-cell plus Ultrabay battery: up to 10.9 hr	
Chipset ExpressCard/54 PC Card Smart Card Read Multicard Reader Ports	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O) One slot (ExpressCard/34, ExpressCard/54) One (Type I, Type II), CardBus 32-bit None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Mini PCI Express Intel 5100 ²⁸ WWAN upg AT&T ²³ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 None High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip	
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available	
1GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2045 2GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2046 Serial ATA Hard Drive Bay Adapter II SATA 43R1980 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 43N3406 320GB Disk SATA 1.5Gb/s (7200 rpm) 43N3411 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ThinkPad Advanced Dock 250310U Verizon WWAN UNDP Broadband 43R9151 AT&T WWAN HSPA Broadband Mini PCIe 43R9152 Other accessories on O-T500 sheet	T/R/W/SL Series Li-Ion Battery 6-cell 40Y6799 T/R/W/SL Series Li-Ion Battery 9-cell 40Y6797 Advanced Ultrabay Battery II 3-cell 43R9250 90W Slim AC/DC Combo Adapter 41N8460 ThinkPad Business Topload Case 43R2476 T500/R500/W500 15W Privacy Filter 43R2474 ThinkVision® L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440x Wide 24" Monitor 4421HB2 Other accessories at lenovo.com/accessories	

Supports ThinkVantage® technologies

90-watt (ATI graphics) AC adapter
ThinkPad Roll Cage and Top Cover
Roll Cage (one-piece magnesium)
Climate Savers® certified
EPEAT™ Silver rating
ENERGY STAR® 4.0-compliant
RoHS-compliant
International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378

ThinkPlus™.22 2-year LOR 9x5 NBD 41C9175
ThinkPlus 3-year LOR 9x5 NBD 41C9176
ThinkPlus 4-year LOR 9x5 NBD 41C9177
ThinkPlus 5-year LOR 9x5 NBD 41C9179
ThinkPlus 4-year P&L P/U Depot 41C9178
ThinkPlus 5-year P&L P/U Depot 41C9180
Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information

✦ Intel Centrino® 2 processor technology

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✗ US models announced September 23, 2008; previous models on August 5, 2008

(CR5W-1) September 2008

✗ US model withdrawn effective September 2008

ThinkPad® W500 4061 (Switchable)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Switchable graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery cells	Whorse (W) Gbl (G)	Avail date
4061-2HU	T9400	2.53	4GB 15.4"	WSXGA+		GMA, V5700	160G 7200	DVD±RW	Intel 5300 ²⁸	WWAN upg		9	Bus 32	Aug 08
4061-2KU	T9600	2.80	4GB 15.4"	WUXGA	Cam	GMA, V5700	200G FDE	DVD±RW	Intel 5300	WWAN upg		9	Bus 32	Aug 08
4061-2ZU	T9400	2.53	4GB 15.4"	WSXGA+		GMA, V5700	160G 7200	DVD±RW	Intel 5100 ²⁸	WWAN upg		9	Bus 32	W G Sep 08
4061-32U	T9600	2.80	4GB 15.4"	WUXGA	Cam	GMA, V5700	160G 7200	DVD±RW	Intel 5300	WWAN upg	2GB Turbo	9	Bus 64	W Sep 08
4061-38U	T9600	2.80	4GB 15.4"	WUXGA	Cam	GMA, V5700	160G 7200	DVD±RW	Intel 5300	WWAN upg		9	XP Pro	Sep 08
4061-3FU	T9400	2.53	2GB 15.4"	WUXGA		GMA, V5700	160G 7200	DVD±RW	Intel 5300	WWAN upg	2GB Turbo	6	Bus 32	G Sep 08
<p>• Power-packed engineering with Open GL graphics and ISV certifications</p>														
Positioning	<p><i>Mobile workstation; two spindles</i> Intel® Core™ 2 Duo processor T9400 or T9600 with dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache</p>										<p>Preloaded operating system²⁰ - <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA - <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit) - <i>Some:</i> Microsoft Windows Vista Business Edition (64-bit) ⇨ Vista Premium logo</p>			
Processor	<p>Intel® Core™ 2 Duo processor T9400 or T9600 with dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache</p>										<p>Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)</p>			
Memory	<p>2GB or 4GB std / 8GB max⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available</p>													
SATA DVD±RW Ultrabay Slim SATA disk	<p>DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB⁸ (7200 rpm) or 200GB (7200 rpm) Full Disk Encryption [FDE] / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™</p>													
Widescreen display	<p><i>Some:</i> 15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio; <i>Some:</i> 15.4" (391mm) WUXGA (1920x1200) color, anti-glare, CCFL backlight, 175 nits, 16:10 aspect ratio, 500:1 contrast ratio</p>													
Camera	<p><i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus</p>													
Switchable graphics	<p>Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, and ATI™ Mobility FireGL™ V5700, PCI Express x16, 512MB memory, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution:</i> 2048x1536@75Hz</p>													
Keyboard	<p>89-key, ThinkVantage button, spill-resistant, multimedia Fn keys</p>													
TrackPoint®	<p>TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass</p>													
Touch pad	<p>UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label</p>													
ThinkLight™	<p>Illuminates the keyboard to improve visibility in low-light conditions</p>													
Dimensions ³ Weight ²	<p><i>6-cell 15.4W"</i> (WxDxH): 14.1" x 10" x 1.2–1.3"; 357.5mm x 255mm x 30–34mm <i>9-cell:</i> starting at 6.2 lb (2.8kg)</p>													
Case material	<p><i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic</p>													
Battery - type	<p>Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultrabay Slim</p>													
Battery - life ¹⁰	<p><i>9-cell:</i> up to 9.4 hr; <i>9-cell plus Ultrabay battery:</i> up to 10.9 hr</p>													
Chipset	<p>Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)</p>													
ExpressCard slot	<p>One ExpressCard/34 or ExpressCard/54</p>													
PC Card Std slot	<p>One Type I or Type II slot, CardBus 32-bit</p>													
Smart Card Read	<p>None</p>													
Multicard Reader	<p>7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)</p>													
Ports	<p>Three USB 2.0, external monitor¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)</p>													
Mini PCI Express	<p>Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless⁴, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n wireless⁴, Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator</p>										<p>Supports ThinkVantage® technologies</p>			
WWAN upg	<p>Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)</p>										<p>90-watt (ATI graphics) AC adapter ThinkPad Roll Cage and Top Cover Roll Cage (one-piece magnesium) Climate Savers® certified EPEAT™ Silver rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>			
2G Turbo	<p>Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator</p>													
UWB	<p>None</p>													
Modem	<p>56K V92⁶ modem</p>													
Bluetooth™	<p>Bluetooth 2.0 wireless, LED indicator</p>													
Ethernet	<p>Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1</p>													
Intel AMT	<p>Intel Active Management Technology (IAMT 4.0)</p>													
Audio support	<p>High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack</p>													
Security	<p>Power-on password, hard disk password, supervisor password, security keyhole</p>													
Security chip	<p>Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant</p>													
Fingerprint reader	<p>Fingerprint reader on palm rest, swipe sensor, supports the security chip</p>										<p>ThinkPlus™.22 2-year LOR 9x5 NBD 41C9175</p>			
Limited warranty ¹²	<p>3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades²² available</p>										<p>ThinkPlus 3-year LOR 9x5 NBD 41C9176</p>			
1GB PC3-8500 DDR3 SODIMM	43R1987			T/R/W/SL Series Li-Ion Battery 6-cell			40Y6799							
2GB PC3-8500 DDR3 SODIMM	43R1988			T/R/W/SL Series Li-Ion Battery 9-cell			40Y6797							
Blu-ray Burner Ultrabay Slim SATA 1.5Gb/s	43N3215			Advanced Ultrabay Battery II 3-cell			43R9250			ThinkPlus 4-year LOR 9x5 NBD 41C9177				
Serial ATA Hard Drive Bay Adapter II SATA	43R1980			90W Slim AC/DC Combo Adapter			41N8460			ThinkPlus 5-year LOR 9x5 NBD 41C9179				
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406			ThinkPad Business Topload Case			43R2476							
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411			ThinkPad Business Backpack			43R2482			ThinkPlus 4-year P&L P/U Depot 41C9178				
USB 2.0 Portable Secure 320GB Hard Disk	43R2019			DisplayPort to Single-link DVI-D Cable			45J7915							
ThinkPad Advanced Dock	250310U			T500/R500/W500 15W Privacy Filter			43R2474			ThinkPlus 5-year P&L P/U Depot 41C9180				
Verizon WWAN UNDP Broadband	43R9151			ThinkVision® L1940p Wide 19" Monitor			4424HB6							
AT&T WWAN HSPA Broadband Mini PCIe	43R9152			ThinkVision L2240p Wide 22" Monitor			4422HB6			Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty				
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008			ThinkVision L2440x Wide 24" Monitor			4421HB2							
Other accessories on O-T500 sheet														

See footnotes for important warranty information

✦ Intel Centrino® 2 with vPro™ technology

☞ US models announced September 23, 2008; previous models on August 5, 2008

ThinkPad® W500 4063 (Switchable) - Onsite

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Switchable graphics	Disk SATA GB ⁸ rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery cells	Whorse (W) GMP(P) Avail	date
4063-33U	T9400	2.53	4GB	15.4" WSXGA+		GMA, V5700	160G 7200 DVD±RW		Intel 5100 ²⁸	WWAN upg		9	Bus 32 WGP	Sep 08
4063-34U	T9600	2.80	4GB	15.4" WUXGA	Cam	GMA, V5700	160G 7200 DVD±RW		Intel 5300 ²⁸	WWAN upg	2GB Turbo	9	Bus 64 W	Sep 08
4063-3FU	T9400	2.53	2GB	15.4" WUXGA		GMA, V5700	160G 7200 DVD±RW		Intel 5300	WWAN upg	2GB Turbo	6	Bus 32 GP	Sep 08

- Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- Power-packed engineering with Open GL graphics and ISV certifications

Positioning	<i>Mobile workstation; two spindles</i>												
Processor	Intel® Core™ 2 Duo processor T9400 or T9600 with dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache												
Memory	2GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available												
SATA DVD±RW Ultraplay Slim SATA disk	DVD burner, SATA 1.5Gb/s, Ultraplay Slim, removable (43N3214) One modular bay for interchangeable devices (right side), 9.5mm high bay, flat bezel 160GB ⁸ (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Widescreen display	<i>Some:</i> 15.4" (391mm) WSXGA+ (1680x1050) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio; <i>Some:</i> 15.4" (391mm) WUXGA (1920x1200) color, anti-glare, CCFL backlight, 175 nits, 16:10 aspect ratio, 500:1 contrast ratio												
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus												
Switchable graphics	Switches between discrete and integrated graphics (Vista only), Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, and ATI™ Mobility FireGL™ V5700, PCI Express x16, 512MB memory, digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); <i>Maximum external resolution:</i> 2048x1536@75Hz												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys												
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass												
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label												
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	6-cell 15.4W" (WxDxH): 14.1" x 10" x 1.2–1.3"; 357.5mm x 255mm x 30–34mm												
Weight ²	9-cell: starting at 6.2 lb (2.8kg)												
Case material	<i>Top:</i> Super-Elastic PolyCarbonate (SEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic												
Battery - type	Lithium Ion 6-cell or 9-cell, supports unique 2nd battery in Ultraplay Slim												
Battery - life ¹⁰	9-cell: up to 9.4 hr; 9-cell plus Ultraplay battery: up to 10.9 hr												
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus (WPCN385 Super I/O)												
ExpressCard slot	One ExpressCard/34 or ExpressCard/54												
PC Card Std slot	One Type I or Type II slot, CardBus 32-bit												
Smart Card Read	None												
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)												
Ports	Three USB 2.0, external monitor ¹¹ (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Mini PCI Express	Three Mini PCI Express slots												
Intel 5100 ²⁸	<i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)												
Intel 5300 ²⁸	<i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)												
WWAN upg	Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)												
2G Turbo	<i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator												
UWB	None												
Modem	56K V.92 ⁶ modem												
Bluetooth™	Bluetooth 2.0 wireless, LED indicator												
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1												
Intel AMT	Intel Active Management Technology (IAMT 4.0)												
Audio support	High Definition (HD) Audio, Conexant 20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack												
Security	Power-on password, hard disk password, supervisor password, security keyhole												
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant												
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip												
Limited warranty ¹²	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available												
1GB PC3-8500 DDR3 SODIMM	43R1987	T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799										
2GB PC3-8500 DDR3 SODIMM	43R1988	T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797										
Serial ATA Hard Drive Bay Adapter II SATA	43R1980	Advanced Ultraplay Battery II 3-cell	43R9250										
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	90W Slim AC/DC Combo Adapter	41N8460										
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad Business Topload Case	43R2476										
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkPad Business Backpack	43R2482										
ThinkPad Advanced Dock	250310U	DisplayPort to Single-link DVI-D Cable	45J7915										
Verizon WWAN UNDP Broadband	43R9151	T500/R500/W500 15W Privacy Filter	43R2474										
AT&T WWAN HSPA Broadband Mini PCIe	43R9152	ThinkVision® L2240p Wide 22" Monitor	4422HB6										
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ThinkVision L2440x Wide 24" Monitor	4421HB2										
Other accessories on O-T500 sheet		Other accessories at lenovo.com/accessories											

- Preloaded operating system²⁰**
- *Some:* Microsoft® Windows® Vista® Business Edition (32-bit)
 - *Some:* Microsoft Windows Vista Business Edition (64-bit)
 - ◇ Vista Premium logo
- Preloaded applications¹⁴ (all OSes)**
- Rescue and Recovery™
 - Access Connections™
 - Client Security Solution™
 - ThinkVantage Productivity Center
 - ThinkVantage System Update
 - 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
 - Fingerprint Software (fingerprint models)
 - Microsoft Office 2007 Trial (60-day)
 - Roxio® Creator® Business Edition
 - Roxio MyDVD® (DVD±RW)

- Supports ThinkVantage® technologies
- 90-watt (ATI graphics) AC adapter
ThinkPad Roll Cage and Top Cover
Roll Cage (one-piece magnesium)
Climate Savers® certified
EPEAT™ Silver rating
ENERGY STAR® 4.0-compliant
RoHS-compliant
International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378
- ThinkPlus™.22 4-year LOR 9x5 NBD 12X5630
- Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information
US models announced September 23, 2008

◆ Intel Centrino® 2 with vPro™ technology

Partial list of accessories supported on:

- ThinkPad T500 originally announced on August 5, 2008
- ThinkPad W500 originally announced on August 5, 2008

Memory

1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	ann	11/04/08
1GB PC3-8500 DDR3 SODIMM	43R1987	ann	08/05/08
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	ann	11/04/08
2GB PC3-8500 DDR3 SODIMM	43R1988	ann	08/05/08

Ultrabay Slim 9.5mm

Serial ATA Hard Drive Bay Adapter II SATA	43R1980	ann	08/05/08
DVD-ROM Ultrabay Slim SATA 1.5Gb/s	43N3212	ann	08/05/08
CD-RW/DVD-ROM Ultrabay Slim SATA	43N3213	ann	08/05/08
DVD Burner Ultrabay Slim SATA 1.5Gb/s	43N3214	ann	08/05/08
Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s	43N3215	ann	08/05/08

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann	03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann	10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann	01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann	01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann	08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann	01/20/09

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter 43R1980 in the Ultrabay or (in the ThinkPad Advanced Dock 250310U with Serial Hard Drive Ultrabay Slim Adapter 40Y8725)

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ann	08/26/08
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 Security Memory Key 2GB	41U5119	ann	07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann	07/17/07
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 Portable Diskette Drive	05K9276	ann	06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann	01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann	09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann	01/23/07

Wireless WAN (Mini PCI Express)

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

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann	02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann	09/20/05
ThinkPad Essential Port Replicator	250510W	ann	09/20/05
ThinkPad Advanced Mini Dock	250410U	ann	09/20/05
ThinkPad Advanced Dock	250310U	ann	09/20/05

Keyboard

TrackPoint Cap Collection	73P2698	ann	12/16/03
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04
USB Keyboard with UltraNav	31P8950	ann	01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann	04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann	05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann	08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann	06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann	11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann	11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann	01/22/08

Security

Kensington® Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
T500/R500/W500 Series 15W Privacy Filter	43R2474	ann	08/05/08
USB Gemplus Smart Card Reader	41N3040	ann	02/21/06
PC Card Gemplus Smart Card Reader	41N3004	ann	12/13/05
ExpressCard Gemplus Smart Card Reader	41N3043	ann	06/27/06

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann	06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann	08/29/06

Batteries

T/R/W/SL Series Li-Ion Battery 6-cell	40Y6799	ann	01/05/06
T/R/W/SL Series Li-Ion Battery 9-cell	40Y6797	ann	09/20/05
Advanced Ultrabay Battery II 3-cell ⁴³	43R9250	ann	04/22/08
⁴³ Used in Ultrabay Slim bay.			
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann	09/20/05
⁴⁴ Requires the ThinkPad 90W AC Adapter 40Y7659 (adapter provided with some systems).			

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann	01/05/06
⁴⁵ Only compatible with the GM45 chipset models.			
ThinkPad 90W AC Adapter	40Y7659	ann	09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460	ann	11/27/07

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

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460

•Dual (ThinkPad+Phone) Charging Y-Cable	41R4345	ann	12/18/07
•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

More information at www.lenovopowertips.com

Carrying Cases

Up to 15.4" widescreen models:

Lenovo Carrying Case - Messenger Max	41U5253	ann	05/01/07
Lenovo Carr Case - Performance BackPack	41U5254	ann	05/01/07
Lenovo Standard Case	45K1697	ann	11/25/08
Lenovo Standard Backpack	45K1698	ann	11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann	02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann	08/12/08
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Lenovo luxury cases at www.lenovoluxurycases.com

Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann	04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann	09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann	11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann	09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann	04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann	09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann	09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann	09/17/08

Monitor Accessories⁴⁶

DisplayPort to Single-link DVI-D Cable	45J7915	ann	08/05/08
ThinkVision USB Soundbar	40Y7616	ann	08/23/05
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann	01/05/06
Radial Arm	19K4464	ann	05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkPad W700



Lenovo ThinkPad W700 Mini Dock



Lenovo ThinkPad W700



Lenovo ThinkPad W700 with
W700 Mini Dock



Lenovo ThinkPad W700



Lenovo ThinkPad W700

ThinkPad® W700 2758 (TopSeller)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Discrete graphics memory	Disk(s) SATA GB ³ rpm RAID	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe UWB or Turbo	Card slot	Blue/ Fing Digitizer	Workhorse (W) Global (G) Avail date
2758-28U T9400	2.53	1GB	17" WXGA+	Cam	1GB	2x160G 7200 0	DVD±RW	Intel 5300 ²⁸	Smart	Yes	Wacom	No	Sep 08
2758-4SU T9600	2.80	4GB	17" WUXGA	Cam	512MB	2x160G 7200	DVD±RW	Intel 5300	Smart	Yes	Wacom	No	Sep 08
2758-29U X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x250G 5400 1	DVD±RW	Intel 5300	Smart	Yes	Wacom	No	Sep 08
<ul style="list-style-type: none"> • These small and medium business (SMB) models are part of the US TopSeller™ Program • First 17" widescreen ThinkPad workstation with integrated color calibration and two RAID-capable disks • Select models include digitizer on palm rest and dual-link DVI-D and DisplayPort ports 													
Positioning Processor	Mobile workstation; three spindles Intel® Core™ 2 Duo processor T9400 or T9600 with dual-core, Intel HD boost, 1066MHz system bus, and 6MB L2 cache or Intel Core 2 Extreme processor X9100 with dual-core, Intel HD boost, 1066MHz system bus, and 6MB L2 cache											Preloaded operating system ²⁰ - Microsoft® Windows® Vista® Business Edition (64-bit) - Vista Premium logo	
Memory	1GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available											Preloaded applications ¹⁴ • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite®	
SATA DVD±RW Ultrabay Enhanced SATA disks	Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high Two disks, 160GB ³ (7200 rpm) or 250GB (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 3rd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Widescreen display	Some: 17.0" (431.8mm) WXGA+ (1440x900) color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 400:1 contrast ratio, 45% color gamut Some: 17.0" (431.8mm) WUXGA (1920x1200) color, anti-glare, CCFL backlight, 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 72% color gamut												
Color calibration Camera	huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Camera on top of screen, 1.3-megapixel, fixed focus												
Discrete graphics	Some: NVIDIA® Quadro® FX2700M, PCI Express® x16, 512MB memory Some: NVIDIA Quadro FX3700M, PCI Express x16, 1GB memory Max external resolution: 2048x1536@85Hz (VGA DB-15 port); 2048x1536 (DisplayPort)												
Keyboard TrackPoint® Touch pad Numeric keypad Digitizer ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label 10-key numeric keypad on right side of keyboard Some: Wacom® digitizer (128x80mm) on palm rest, digitizer pen, pen holder in right side Two LEDs illuminate the keyboard to improve visibility in low-light conditions											ISV software certifications	
Dimensions ³ Weight ² Case material	9-cell 17W" (WxDxH): 16.1" x 12.2" x 1.6"; 410mm x 310mm x 41mm 9-cell: starting at 8.4 lb (3.8kg) Top: magnesium alloy; Bottom: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic											Supports ThinkVantage® technologies	
Battery - type Battery - life ¹⁰	Lithium Ion 9-cell 9-cell: up to 2.3 hr											ThinkPad W700 Mini Dock Provides desktop expansion and cable management for W700 Series Features: • Security key lock • Security cable lock slot • External monitor ports – Analog VGA DB-15 – Dual-link DVI-D – DisplayPort • Four USB 2.0 ports • eSATA port • Gigabit ethernet port • Microphone in and headphone out • S/PDIF (RCA coaxial digital out) • Requires 170 watt AC adapter	
Chipset	Mobile Intel PM45 Express Chipset (Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, RAID 0 or 1 support, USB 2.0, PCI Express 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus												
ExpressCard/34 ExpressCard/54 Compact Flash Smart Card Reader Multicard Reader Ports	One ExpressCard/34 None None Smart Card Reader 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Five USB 2.0, external monitor ¹¹ (VGA DB-15, dual-link DVI-D, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Mini PCI Express Intel 5300 ²⁸ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) Some: Intel Turbo Memory, Mini PCIe adapter, 2GB flash, disk-cache accelerator None (uses Half-Mini PCIe slot) 56K V.92 ⁶ modem in Communications Daughter Card socket Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack											170-watt AC adapter RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip											ThinkPlus™.22 2-year LOR 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 41C9176 ThinkPlus 4-year LOR 9x5 NBD 41C9177 ThinkPlus 5-year LOR 9x5 NBD 41C9179 ThinkPlus 4-year P&L P/U Depot 41C9178 ThinkPlus 5-year P&L P/U Depot 41C9180 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty	
Limited warranty ¹²	3-year - EasyServ™.19 depot repair service / service upgrades ²² available												
1GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2045 2GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2046 Blu-ray Burner Ultrabay Enh SATA 1.5Gb/s 43R9150 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 43N3406 320GB Disk SATA 1.5Gb/s (7200 rpm) 43N3411 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 ThinkPad W700 Mini Dock 43R8782 Laser Tilt Wheel Travel Mouse (Bluetooth) 41U5008 Other accessories on O-W700 sheet	W700 Series Li-Ion Battery 9-cell 45J7914 ThinkPad 170W AC Adapter 41R4421 ThinkPad 17W Business Topload Case 43R9117 ThinkVision® USB Soundbar (up to 22") 40Y7616 ThinkVision L1700p 17" Monitor 9417HE2 ThinkVision L1940p Wide 19" Monitor 4424HB6 ThinkVision L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Other accessories at lenovo.com/accessories												

See footnotes for important warranty information
US models announced August 12, 2008

⚡ Intel Centrino® 2 processor technology
⚡ Intel Centrino 2 with vPro™ technology

⚡ US model withdrawn effective September 2008

Type-model	Processor	Proc- GHz	Memory	Wide-screen display	Cam- era	Discrete graphics memory	Disk(s) SATA GB ⁵ rpm	RAID	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe UWB or Turbo	Card Blue/ slot	Digit- izer	Workhorse (W) Global (G) Avail date
2752-36U	T9600	2.80	4GB	17" WUXGA	Cam	1GB	2x250G 5400	1	DVD±RW	Intel 5300 ²⁸	None	/54 Yes		Bus64 W Sep 08
2752-37U	T9600	2.80	4GB	17" WUXGA	Cam	1GB	2x250G 5400	1	DVD±RW	Intel 5300	None	/54 Yes		Bus64 W Sep 08
2752-38U	T9600	2.80	4GB	17" WUXGA	Cam	1GB	2x320G 5400	0	DVD±RW	Intel 5300	None	CF Yes	Wacom	Bus64 Sep 08
2752-3NU	T9600	2.80	4GB	17" WUXGA	Cam	1GB	2x320G 5400	0	DVD±RW	Intel 5300	None	CF Yes	Wacom	Bus64 Sep 08
2752-3YU	T9600	2.80	2GB	17" WXGA+	Cam	1GB	2x200G FDE	0	DVD±RW	Intel 5300	None	/54 Yes	Wacom	Bus32 W Sep 08

- **First 17" widescreen ThinkPad workstation with integrated color calibration and two RAID-capable disks**
- **Select models include digitizer on palm rest and dual-link DVI-D and DisplayPort ports**

Positioning	<i>Mobile workstation; three spindles</i>											Preloaded operating system ²⁰ - Some: Microsoft® Windows® Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) ◇ Vista Premium logo			
Processor	Intel® Core™ 2 Duo processor T9600 with dual-core, Intel HD boost, 1066MHz system bus, and 6MB L2 cache														
Memory	1GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available											Preloaded applications ¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Windows Live™ Toolbar and Search • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite®			
SATA DVD±RW Ultrabay Enhanced SATA disk	Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high Two disks, 250GB⁸ (5400 rpm), 320GB⁸ (5400 rpm), or 200GB Full Disk Encryption [FDE] (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 3rd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™														
Widescreen display	Some: 17.0" (431.8mm) WXGA+ (1440x900) color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 400:1 contrast ratio, 45% color gamut Some: 17.0" (431.8mm) WUXGA (1920x1200) color , anti-glare, CCFL backlight, 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 72% color gamut														
Color calibration	huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest														
Camera	Camera on top of screen, 1.3-megapixel, fixed focus														
Discrete graphics	NVIDIA® Quadro® FX3700M, PCI Express® x16, 1GB memory; Max external resolution: 2048x1536@85Hz (VGA DB-15 port); 2048x1536 (DisplayPort)														
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass														
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label														
Numeric keypad	10-key numeric keypad on right side of keyboard														
Digitizer	Some: Wacom® digitizer (128x80mm) on palm rest, digitizer pen, pen holder in right side														
ThinkLight™	Two LEDs illuminate the keyboard to improve visibility in low-light conditions														
Dimensions ³	9-cell 17W" (WxDxH): 16.1" x 12.2" x 1.6"; 410mm x 310mm x 41mm														
Weight ²	9-cell: starting at 8.4 lb (3.8kg)														
Case material	Top: magnesium alloy; Bottom: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type	Lithium Ion 9-cell														
Battery - life ¹⁰	9-cell: up to 2.3 hr														
Chipset	Mobile Intel PM45 Express Chipset (Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, RAID 0 or 1 support, USB 2.0, PCI Express 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus														
ExpressCard/34	One ExpressCard/34														
ExpressCard/54	Some: [/54] One ExpressCard/34 or ExpressCard/54														
Compact Flash	Some: [CF] One Type I slot														
Smart Card Read	None														
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)														
Ports	Five USB 2.0, external monitor ¹¹ (VGA DB-15, dual-link DVI-D, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)														
Mini PCI Express	Three Mini PCI Express slots														
Intel 5300 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)														
2G Turbo	None														
UWB	None (uses Half-Mini PCIe slot)														
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket														
Bluetooth™	Bluetooth 2.0 wireless, LED indicator														
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1														
Intel AMT	Intel Active Management Technology (IAMT 4.0)														
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant														
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip														
Limited warranty ¹²	3-year - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available														
1GB PC3-8500 DDR3 SODIMM	43R1987	W700 Series Li-Ion Battery 9-cell	45J7914												
2GB PC3-8500 DDR3 SODIMM	43R1988	ThinkPad 170W AC Adapter	41R4421												
Blu-ray Burner Ultrabay Enh SATA 1.5Gb/s	43R9150	ThinkPad 17W Business Topload Case	43R9117												
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkVision® USB Soundbar (up to 22")	40Y7616												
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkVision L1700p 17" Monitor	9417HE2												
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ThinkVision L1940p Wide 19" Monitor	4424HB6												
ThinkPad W700 Mini Dock	43R8782	ThinkVision L2240p Wide 22" Monitor	4422HB6												
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ThinkVision L2440x Wide 24" Monitor	4421HB2												
Other accessories on O-W700 sheet	Other accessories at lenovo.com/accessories														
												ThinkPlus™ ²² 2-year LOR 9x5 NBD 41C9175			
												ThinkPlus 3-year LOR 9x5 NBD 41C9176			
												ThinkPlus 4-year LOR 9x5 NBD 41C9177			
												ThinkPlus 5-year LOR 9x5 NBD 41C9179			
												ThinkPlus 4-year P&L P/U Depot 41C9178			
												ThinkPlus 5-year P&L P/U Depot 41C9180			
												Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			

See footnotes for important warranty information
US models announced August 12, 2008

◇ Intel Centrino 2 with vPro™ technology

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Discrete graphics memory	Disk(s) SATA GB ³ rpm	RAID	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe UWB or Turbo	Card Blue/ slot	Digit- izer	Workhorse (W) Global (G) Avail date
2752-6SU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200	0	DVD±RW	Intel 5300 ²⁸		/54	Yes	Bus64 W G Sep 08
2752-6TU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200	1	DVD±RW	Intel 5300		CF	Yes	Wacom Bus64 W G Sep 08
2752-3AU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x200G FDE	0	BD burner	Intel 5300		/54	Yes	Wacom Ult64 Sep 08
2752-6UU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200	0	DVD±RW	Intel 5300		CF	Yes	Wacom Bus64 W G Sep 08
2752-3DU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x200G FDE	0	BD burner	Intel 5300		CF	Yes	Wacom Bus64 Sep 08
2752-5ZU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x200G FDE	0	DVD±RW	Intel 5300		CF	Yes	Wacom Bus64 Sep 08
2752-62U	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200		DVD±RW	Intel 5300	2G Turbo	/54	Yes	Wacom Bus64 W Sep 08
2752-43U	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x200G FDE	0	BD burner	Intel 5300		/54	Yes	Wacom Ult64 W Sep 08
2752-6ZU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200		DVD±RW	Intel 5300		CF	Yes	XP Pro G Sep 08
2752-72U	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200	0	DVD±RW	Intel 5300		CF	Yes	Wacom XP Pro G Sep 08

• **First 17" widescreen ThinkPad workstation with integrated color calibration and two RAID-capable disks**
 • **Select models include digitizer on palm rest and dual-link DVI-D and DisplayPort ports**

Positioning	Mobile workstation; three spindles	Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (64-bit) - Some: Microsoft Windows Vista Ultimate Edition (64-bit) ♦ Vista Premium logo Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar and Search • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite®	
Processor	Intel® Core™ 2 Extreme processor X9100 with dual-core, Intel HD boost, 1066MHz system bus, and 6MB L2 cache		
Memory	4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available		
SATA DVD±RW	Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149)		
SATA BD burner	Some: Blu-ray™ burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enh, removable (43R9150)		
Ultrabay Enhanced	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high		
SATA disk	Two disks, 160GB ⁸ (7200 rpm) or 200GB Full Disk Encryption [FDE] (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 3rd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™		
Widescreen display	17.0" (431.8mm) WUXGA (1920x1200) color, anti-glare, CCFL backlight, 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 72% color gamut		
Color calibration	huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest		
Camera	Camera on top of screen, 1.3-megapixel, fixed focus		
Discrete graphics	NVIDIA® Quadro® FX3700M, PCI Express x16, 1GB memory Max external resolution: 2048x1536@85Hz (VGA DB-15 port); 2048x1536 (DisplayPort)		
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys		
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass		
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label		
Numeric keypad	10-key numeric keypad on right side of keyboard		
Digitizer	Some: Wacom® digitizer (128x80mm) on palm rest, digitizer pen, pen holder in right side		
ThinkLight™	Two LEDs illuminate the keyboard to improve visibility in low-light conditions		
Dimensions ³	9-cell 17W" (WxDxH): 16.1" x 12.2" x 1.6"; 410mm x 310mm x 41mm		
Weight ²	9-cell: starting at 8.4 lb (3.8kg)		
Case material	Top: magnesium alloy; Bottom: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
Battery - type	Lithium Ion 9-cell		
Battery - life ¹⁰	9-cell: up to 2.3 hr		
Chipset	Mobile Intel PM45 Express Chipset (Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, RAID 0 or 1 support, USB 2.0, PCI Express 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus		
ExpressCard/34	One ExpressCard/34		
ExpressCard/54	Some: [54] One ExpressCard/34 or ExpressCard/54		
Compact Flash	Some: [CF] One Type I slot		
Smart Card Read	None		
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)		
Ports	Five USB 2.0, external monitor ¹¹ (VGA DB-15, dual-link DVI-D, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)		
Mini PCI Express	Three Mini PCI Express slots		
Intel 5300 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)		
2G Turbo	Some: Intel Turbo Memory, Mini PCIe adapter, 2GB flash, disk-cache accelerator		
UWB	None (uses Half-Mini PCIe slot)		
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket		
Bluetooth™	Bluetooth 2.0 wireless, LED indicator		
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1		
Intel AMT	Intel Active Management Technology (IAMT 4.0)		
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack		
Security	Power-on password, hard disk password, supervisor password, security keyhole		
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant		
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip		
Limited warranty ¹²	3-year - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available		
1GB PC3-8500 DDR3 SODIMM	43R1987	W700 Series Li-Ion Battery 9-cell	45J7914
2GB PC3-8500 DDR3 SODIMM	43R1988	ThinkPad 170W AC Adapter	41R4421
Blu-ray Burner Ultrabay Enh SATA 1.5Gb/s	43R9150	ThinkPad 17W Business Topload Case	43R9117
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkVision® L1700p 17" Monitor	9417HE2
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkVision L1940p Wide 19" Monitor	4424HB6
ThinkPad W700 Mini Dock	43R8782	ThinkVision L2240p Wide 22" Monitor	4422HB6
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ThinkVision L2440p Wide 24" Monitor	4420HB2
Other accessories on O-W700 sheet		Other accessories at lenovo.com/accessories	
			ThinkPlus™.22 2-year LOR 9x5 NBD 41C9175
			ThinkPlus 3-year LOR 9x5 NBD 41C9176
			ThinkPlus 4-year LOR 9x5 NBD 41C9177
			Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty

See footnotes for important warranty information
US models announced August 12, 2008

♦ Intel Centrino® 2 processor technology

ThinkPad® W700 2752 (Quad-Core Extreme)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Discrete graphics memory	Disk(s) SATA GB ⁵ rpm	SATA RAID	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe UWB or Turbo	Card Blue/ Fing	Digit- izer	Workhorse (W) Global (G) Avail date
2752-3KU	QX9300	2.53	4GB	17" WUXGA	Cam	1GB	2x320G 5400	0	BD burner	Intel 5300 ²⁸	None	/54	Yes	Wacom Bus64 No Sep 08

- **First 17" widescreen ThinkPad workstation with integrated color calibration and two RAID-capable disks**
- **Select models include digitizer on palm rest and dual-link DVI-D and DisplayPort ports**

Positioning Processor	<i>Mobile workstation; three spindles</i> Intel® Core™ 2 Extreme processor QX9300 with quad-core , Intel HD boost, 1066MHz system bus, and 12MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (64-bit) ♦ Vista Premium logo			
Memory	4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar and Search • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite®			
SATA BD burner	Blu-ray™ burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9150)										• ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar and Search • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite®			
Ultrabay Enhanced SATA disk	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high Two disks, 320GB⁸ (5400 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 3rd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™													
Widescreen display	17.0" (431.8mm) WUXGA (1920x1200) color , anti-glare, CCFL backlight, 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 72% color gamut										ISV software certifications Supports ThinkVantage® technologies			
Color calibration Camera	huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Camera on top of screen, 1.3-megapixel, fixed focus													
Discrete graphics	NVIDIA® Quadro® FX3700M , PCI Express x16, 1GB memory; <i>Max external resolution:</i> 2048x1536@85Hz (VGA DB-15 port); 2048x1536 (DisplayPort)										ThinkPad W700 Mini Dock Provides desktop expansion and cable management for W700 Series Features: • Security key lock • Security cable lock slot • External monitor ports – Analog VGA DB-15 – Dual-link DVI-D – DisplayPort • Four USB 2.0 ports • eSATA port • Gigabit ethernet port • Microphone in and headphone out • S/PDIF (RCA coaxial digital out) • Requires 170 watt AC adapter			
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys													
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass										• Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite®			
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label													
Numeric keypad	10-key numeric keypad on right side of keyboard										ThinkPlus™.22 2-year LOR 9x5 NBD 41C9175			
Digitizer	Wacom® digitizer (128x80mm) on palm rest, digitizer pen, pen holder in right side													
ThinkLight™	Two LEDs illuminate the keyboard to improve visibility in low-light conditions										ThinkPlus 3-year LOR 9x5 NBD 41C9176			
Dimensions ³	<i>9-cell 17W"</i> (WxDxH): 16.1" x 12.2" x 1.6"; 410mm x 310mm x 41mm													
Weight ²	<i>9-cell:</i> starting at 8.4 lb (3.8kg)										ThinkPlus 4-year LOR 9x5 NBD 41C9177			
Case material	<i>Top:</i> magnesium alloy; <i>Bottom:</i> Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic													
Battery - type	Lithium Ion 9-cell										ThinkPlus 5-year LOR 9x5 NBD 41C9179			
Battery - life ¹⁰	<i>9-cell:</i> up to 2.3 hr													
Chipset	Mobile Intel PM45 Express Chipset (Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, RAID 0 or 1 support, USB 2.0, PCI Express 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus										International Warranty Service¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
ExpressCard/34	One ExpressCard/34													
ExpressCard/54	/54 One ExpressCard/34 or ExpressCard/54										ThinkPlus 4-year P&L P/U Depot 41C9178			
Compact Flash	None													
Smart Card Read	None										ThinkPlus 5-year P&L P/U Depot 41C9180			
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)													
Ports	Five USB 2.0, external monitor ¹¹ (VGA DB-15, dual-link DVI-D, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
Mini PCI Express	Three Mini PCI Express slots Intel 5300 ²⁸ 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)													
2G Turbo UWB	None (uses Half-Mini PCIe slot)										Other accessories at lenovo.com/accessories			
Modem	56K V.92 ⁶ modem in Communications Daughter Card socket													
Bluetooth™	Bluetooth 2.0 wireless, LED indicator										Other accessories at lenovo.com/accessories			
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1													
Intel AMT	Intel Active Management Technology (IAMT 4.0)										Other accessories at lenovo.com/accessories			
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack													
Security	Power-on password, hard disk password, supervisor password, security keyhole										Other accessories at lenovo.com/accessories			
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant													
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip										Other accessories at lenovo.com/accessories			
Limited warranty ¹²	3-year - EasyServ™.19 depot repair service / service upgrades ²² available													
1GB PC3-8500 DDR3 SODIMM	43R1987		W700 Series Li-Ion Battery 9-cell				45J7914		41R4421		ThinkPlus 4-year LOR 9x5 NBD			
2GB PC3-8500 DDR3 SODIMM	43R1988		ThinkPad 170W AC Adapter				41R4421		43R9117		ThinkPlus 5-year LOR 9x5 NBD			
Blu-ray Burner Ultrabay Enh SATA 1.5Gb/s	43R9150		ThinkPad 17W Business Topload Case				43R9117		40Y7616		ThinkPlus 4-year P&L P/U Depot			
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406		ThinkVision® USB Soundbar (up to 22")				40Y7616		9417HE2		ThinkPlus 5-year P&L P/U Depot			
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411		ThinkVision L1700p 17" Monitor				9417HE2		4424HB6		ThinkPlus 5-year P&L P/U Depot			
USB 2.0 Ultra Secure Memory Key 8GB	45J5918		ThinkVision L1940p Wide 19" Monitor				4424HB6		4422HB6		ThinkPlus 5-year P&L P/U Depot			
ThinkPad W700 Mini Dock	43R8782		ThinkVision L2240p Wide 22" Monitor				4422HB6		4420HB2		ThinkPlus 5-year P&L P/U Depot			
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008		ThinkVision L2440p Wide 24" Monitor				4420HB2				ThinkPlus 5-year P&L P/U Depot			
Other accessories on O-W700 sheet														

See footnotes for important warranty information
 US models announced August 12, 2008

♦ Intel Centrino® 2 processor technology

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Type-model	Proc- essor	GHz	Memory	Wide- screen display	Cam- era	Discrete graphics memory	Disk(s) SATA GB ³ rpm	SATA RAID optical	Mini PCIe 802.11 wireless	Mini PCIe UWB or Turbo	Card slot	Blue/ Fing	Digit- izer	Workhorse (W) Global (G) Preload GMP (P)	Avail date
2753-48U	T9400	2.53	1GB	17" WUXGA		512MB	2x160G 7200	0 Combo	Intel 5300 ²⁸	None	/54	Yes		Bus32	Sep 08
2753-6SU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200	0 DVD±RW	Intel 5300	None	/54	Yes		Bus64	WG P Sep 08
2753-6TU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200	1 DVD±RW	Intel 5300	None	CF	Yes	Wacom	Bus64	WG P Sep 08
2753-6UU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200	0 DVD±RW	Intel 5300	None	CF	Yes	Wacom	Bus64	WG P Sep 08
2753-6ZU	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200	0 DVD±RW	Intel 5300	None	CF	Yes	XP Pro	XP Pro	G P Sep 08
2753-72U	X9100	3.06	4GB	17" WUXGA	Cam	1GB	2x160G 7200	0 DVD±RW	Intel 5300	None	CF	Yes	Wacom	XP Pro	G P Sep 08
<ul style="list-style-type: none"> Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty First 17" widescreen ThinkPad workstation with integrated color calibration and two RAID-capable disks 															
Positioning Processor	Uncompromised performance; three spindles Intel® Core™ 2 Duo processor T9600 with dual-core, Intel HD boost, 1066MHz system bus, and 6MB L2 cache or Intel Core 2 Extreme processor X9100 with dual-core, Intel HD boost, 1066MHz system bus, and 6MB L2 cache													Preloaded operating system ²⁰	
Memory	1GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available													- Some: Microsoft® Windows XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) - Some: Microsoft Windows Vista Ultimate Edition (64-bit) ◇ Vista Premium logo	
SATA Combo SATA DVD±RW Ultrabay Enhanced SATA disk	Some: DVD-ROM/CD-RW, SATA 1.5Gb/s, 12.7mm Ultrabay Enh, removable (43R9148) Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high Two disks, 160GB ³ (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 3rd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™													Preloaded applications ¹⁴ (all OSes)	
Widescreen display Color calibration Camera	17.0" (431.8mm) WUXGA (1920x1200) color, anti-glare, CCFL backlight, 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 72% color gamut huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Some: camera on top of screen, 1.3-megapixel, fixed focus													<ul style="list-style-type: none"> Rescue and Recovery™ Access Connections™ Client Security Solution™ ThinkVantage Productivity Center ThinkVantage System Update 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 Fingerprint Software Microsoft Office 2007 Trial (60-day) Roxio® Creator® Business Edition Roxio MyDVD® (DVD±RW) huey™PRO Monitor Color Correction by Pantone®/X-Rite® 	
Discrete graphics	Some: NVIDIA® Quadro® FX2700M, PCI Express® x16, 512MB memory Some: NVIDIA Quadro FX3700M, PCI Express x16, 1GB memory Max external resolution: 2048x1536@85Hz (VGA DB-15 port); 2048x1536 (DisplayPort)														
Keyboard TrackPoint® Touch pad Numeric keypad Digitizer ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label 10-key numeric keypad on right side of keyboard Some: Wacom® digitizer (128x80mm) on palm rest, digitizer pen, pen holder in right side Two LEDs illuminate the keyboard to improve visibility in low-light conditions														
Dimensions ³ Weight ² Case material	9-cell 17W" (WxDxH): 16.1" x 12.2" x 1.6"; 410mm x 310mm x 41mm 9-cell: starting at 8.4 lb (3.8kg) Top: magnesium alloy; Bottom: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type Battery - life ¹⁰	Lithium Ion 9-cell 9-cell: up to 2.3 hr														
Chipset	Mobile Intel PM45 Express Chipset (Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, RAID 0 or 1 support, USB 2.0, PCI Express 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus													ISV software certifications	
ExpressCard/34 ExpressCard/54 Compact Flash Smart Card Read Multicard Reader Ports	One ExpressCard/34 Some: [54] One ExpressCard/34 or ExpressCard/54 Some: [CF] One Type I slot None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Five USB 2.0, external monitor ¹¹ (VGA DB-15, dual-link DVI-D, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)													Supports ThinkVantage® technologies	
Mini PCI Express Intel 5300 ²⁸ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) None None (uses Half-Mini PCIe slot) 56K V.92 ⁶ modem in Communications Daughter Card socket Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack													<p>ThinkPad W700 Mini Dock</p> <p>Provides desktop expansion and cable management for W700 Series</p> <p>Features:</p> <ul style="list-style-type: none"> Security key lock Security cable lock slot External monitor ports <ul style="list-style-type: none"> Analog VGA DB-15 Dual-link DVI-D DisplayPort Four USB 2.0 ports eSATA port Gigabit ethernet port Microphone in and headphone out S/PDIF (RCA coaxial digital out) Requires 170 watt AC adapter 	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip													170-watt AC adapter RoHS-compliant	
Limited warranty ¹²	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available													International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378	
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Blu-ray Burner Ultrabay Enh SATA 1.5Gb/s 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) ThinkPad W700 Mini Dock Laser Tilt Wheel Travel Mouse (Bluetooth) Other accessories on O-W700 sheet	43R1987 43R1988 43R9150 43N3406 43N3411 43R8782 41U5008			W700 Series Li-Ion Battery 9-cell ThinkPad 170W AC Adapter ThinkPad 17W Business Topload Case ThinkVision® L1700p 17" Monitor ThinkVision L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories			45J7914 41R4421 43R9117 9417HE2 4424HB6 4422HB6 4421HB2			ThinkPlus™.22 4-year LOR ²⁴ 9x5 NBD 12X5630			Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty		

See footnotes for important warranty information
US models announced August 12, 2008

✦ Intel Centrino® 2 processor technology
✦ Intel Centrino 2 with vPro™ technology

ThinkPad®



Lenovo ThinkPad W700ds



Lenovo ThinkPad W700ds



Lenovo ThinkPad W700ds



Lenovo ThinkPad W700ds



Lenovo ThinkPad W700ds

Type-model	Proc-essor	Mem-ory	Primary display	Secondary display	Camera	Disk(s) SATA GB ⁸	RAID	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe UWB or Turbo slot	CardBlue/ Finger	Digit-izer	Workhorse (W) Global (G) Avail date	
2752-EPU Q9100	2.26	4GB	17" WUXGA	10.6" WXGA	Cam	2x160GB	None	DVD±RW	Intel 5300 ²⁸	None	/54	Yes	Bus64 Jan 09	
2752-E7U QX9300	2.53	4GB	17" WUXGA	10.6" WXGA	Cam	2x160GB	None	DVD±RW	Intel 5300	None	/54	Yes	Wacom Bus64 WG Jan 09	
<ul style="list-style-type: none"> • ds = dual screen • 17" widescreen ThinkPad workstation with integrated color calibration and two RAID-capable disks • Select models include digitizer on palm rest 														
Positioning Processor	<i>Mobile workstation; three spindles</i> Intel® Core™ 2 processor Q9100 with quad-core , Intel HD boost, 1066MHz system bus, and 12MB L2 cache or Intel Core 2 Extreme processor QX9300 with quad-core , Intel HD boost, 1066MHz system bus, and 12MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (64-bit) ⇨ Vista Premium logo			
Memory	4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Windows Live™ Toolbar • Windows Live Search • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite® 			
SATA DVD±RW Ultrabay Enhanced SATA disk	<i>Some:</i> DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high Two disks, 160GB⁹ (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports third disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™													
Displays	<i>Primary:</i> 17.0" (431.8mm) WUXGA (1920x1200) color , widescreen, anti-glare, CCFL backlight, 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 72% color gamut; <i>Secondary:</i> 10.6" (269.2mm) WXGA (768x1280) color , portrait, anti-glare, LED backlight, 230 nits, 9:15 aspect ratio, 190:1 contrast ratio, 45% color gamut, slides out of right side of top cover, 30° tilt, 40% of primary screen size													
Color calibration Camera	huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Camera on top of screen, 1.3-megapixel, fixed focus													
Discrete graphics	NVIDIA® Quadro® FX3700M , PCI Express® x16, 1GB memory; Max external resolution: 2048x1536@85Hz (VGA DB-15 port); 2048x1536 (DisplayPort)													
Keyboard TrackPoint® Touch pad Numeric keypad Digitizer ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label 10-key numeric keypad on right side of keyboard <i>Some:</i> Wacom® digitizer (128x80mm) on palm rest, digitizer pen, pen holder in right side Two LEDs illuminate the keyboard to improve visibility in low-light conditions										ISV software certifications Supports ThinkVantage® technologies			
Dimensions ³ Weight ² Case color Case material	9-cell 17W" (WxDxH): 16.1" x 12.2" x 1.6"; 410mm x 310mm x 41mm 9-cell: starting at 8.4 lb (3.8kg) Black Top: magnesium alloy; Bottom: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic										ThinkPad W700 Mini Dock Provides desktop expansion and cable management for W700 Series Features: <ul style="list-style-type: none"> • Security key lock • Security cable lock slot • External monitor ports <ul style="list-style-type: none"> – Analog VGA DB-15 – Dual-link DVI-D – DisplayPort • Four USB 2.0 ports • eSATA port • Gigabit ethernet port • Microphone in and headphone out • S/PDIF (RCA coaxial digital out) • Requires 170 watt AC adapter 			
Battery - type Battery - life ¹⁰	Lithium Ion 9-cell 9-cell: up to 2.1 hr													
Chipset	Mobile Intel PM45 Express Chipset (Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, RAID 0 or 1 support, USB 2.0, PCI Express 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus One slot (ExpressCard/34) <i>Some:</i> One slot (ExpressCard/34, ExpressCard/54)													
ExpressCard/34 ExpressCard/54 Compact Flash Smart Card read Multicard reader Ports	None None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Five USB 2.0, external monitor ¹¹ (VGA DB-15, dual-link DVI-D, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin conn; 1394a-2000 standard)													
Mini PCI Express Intel 5300 ²⁸ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) None None (uses Half-Mini PCIe slot) 56K V.92 ⁶ modem in Communications Daughter Card socket Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack										170-watt AC adapter RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip										ThinkPlus™.22 2-year LOR 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 41C9176 ThinkPlus 4-year LOR 9x5 NBD 41C9177 ThinkPlus 5-year LOR 9x5 NBD 41C9179			
Limited warranty ¹²	3-year - EasyServ™.19 depot repair service / service upgrades ²² available										ThinkPlus 4-year P&L P/U Depot 41C9178 ThinkPlus 5-year P&L P/U Depot 41C9180 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
1GB PC3-8500 DDR3 SODIMM	43R1987		W700 Series Li-Ion Battery 9-cell		45J7914		ThinkPad 170W AC Adapter		41R4421		ThinkPlus 4-year LOR 9x5 NBD		41C9175	
2GB PC3-8500 DDR3 SODIMM	43R1988		ThinkPad 17W Business Topload Case		43R9117		ThinkVision® USB Soundbar (up to 22")		40Y7616		ThinkPlus 3-year LOR 9x5 NBD		41C9176	
Blu-ray Burner Ultrabay Enh SATA 1.5Gb/s	43R9150		ThinkVision L2240p Wide 22" Monitor		4422HB6		ThinkVision L2440x Wide 24" Monitor		4421HB2		ThinkPlus 4-year LOR 9x5 NBD		41C9177	
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406		Other accessories at lenovo.com/accessories								ThinkPlus 5-year LOR 9x5 NBD		41C9179	
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411										Post-warranty annual maintenance agreements at		lenovo.com/thinkplus/warranty	
ThinkPad W700 Mini Dock	43R8782													
Other accessories on O-W700 sheet														

See footnotes for important warranty information
 US models announced January 6, 2009

⇨ Intel Centrino 2 with vPro™ technology

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 (NIC15-1) January 2009

ThinkPad® W700ds 2753 (Onsite)

Type-model	Proc-essor	Mem-ory	Primary display	Secondary display	Camera	Disk(s) SATA GB ⁶	RAID	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe UWB or Turbo slot	CardBlue/ Digit-izer	Workhorse (W) Global (G) Avail (P) date
2753-E7U QX9300	2.53 GHz	4GB	17" WUXGA	10.6" WXGA	Cam	2x160GB	None	DVD±RW	Intel 5300 ²⁸	None	/54 Yes Wacom	Bus64 WGP Jan 09
<ul style="list-style-type: none"> • ds = dual screen • 17" widescreen ThinkPad workstation with integrated color calibration and two RAID-capable disks • Select models include digitizer on palm rest • These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty 												
Positioning Processor	<i>Mobile workstation; three spindles</i> Intel Core 2 Extreme processor QX9300 with quad-core, Intel HD boost, 1066MHz system bus, and 12MB L2 cache											Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (64-bit) ⇨ Vista Premium logo
Memory	4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available											Preloaded applications¹⁴ <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Windows Live™ Toolbar • Windows Live Search • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite®
SATA DVD±RW Ultrabay Enhanced SATA disk	<i>Some:</i> DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable (43R9149) One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high Two disks, 160GB⁸ (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports third disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™											
Displays	<i>Primary:</i> 17.0" (431.8mm) WUXGA (1920x1200) color , widescreen, anti-glare, CCFL backlight, 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 72% color gamut; <i>Secondary:</i> 10.6" (269.2mm) WXGA (768x1280) color , portrait, anti-glare, LED backlight, 230 nits, 9:15 aspect ratio, 190:1 contrast ratio, 45% color gamut, slides out of right side of top cover, 30° tilt, 40% of primary screen size											
Color calibration Camera	huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Camera on top of screen, 1.3-megapixel, fixed focus											
Discrete graphics	NVIDIA® Quadro® FX3700M , PCI Express® x16, 1GB memory; <i>Max external resolution:</i> 2048x1536@85Hz (VGA DB-15 port); 2048x1536 (DisplayPort)											
Keyboard TrackPoint® Touch pad Numeric keypad Digitizer ThinkLight™	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label 10-key numeric keypad on right side of keyboard Wacom® digitizer (128x80mm) on palm rest, digitizer pen, pen holder in right side Two LEDs illuminate the keyboard to improve visibility in low-light conditions											
Dimensions ³ Weight ² Case color Case material	<i>9-cell 17W" (WxDxH):</i> 16.1" x 12.2" x 1.6"; 410mm x 310mm x 41mm <i>9-cell:</i> starting at 8.4 lb (3.8kg) Black <i>Top:</i> magnesium alloy; <i>Bottom:</i> Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic											
Battery - type Battery - life ¹⁰	Lithium Ion 9-cell <i>9-cell:</i> up to 2.1 hr											
Chipset	Mobile Intel PM45 Express Chipset (Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, RAID 0 or 1 support, USB 2.0, PCI Express 1.1, PCI 2.3, security chip, ethernet MAC), LPC bus											ISV software certifications
ExpressCard/34 ExpressCard/54 Compact Flash Smart Card read Multicard reader Ports	One slot (ExpressCard/34) One slot (ExpressCard/34, ExpressCard/54) None None 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Five USB 2.0, external monitor ¹¹ (VGA DB-15, dual-link DVI-D, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin conn; 1394a-2000 standard)											Supports ThinkVantage® technologies
Mini PCI Express Intel 5300 ²⁸ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) None None (uses Half-Mini PCIe slot) 56K V.92 ⁶ modem in Communications Daughter Card socket Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack											ThinkPad W700 Mini Dock Provides desktop expansion and cable management for W700 Series Features: <ul style="list-style-type: none"> • Security key lock • Security cable lock slot • External monitor ports <ul style="list-style-type: none"> – Analog VGA DB-15 – Dual-link DVI-D – DisplayPort • Four USB 2.0 ports • eSATA port • Gigabit ethernet port • Microphone in and headphone out • S/PDIF (RCA coaxial digital out) • Requires 170 watt AC adapter
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip											170-watt AC adapter RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/ service upgrades ²² available											ThinkPlus™.22 4-year LOR 9x5 NBD 12X5630 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Blu-ray Burner Ultrabay Enh SATA 1.5Gb/s 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (7200 rpm) ThinkPad W700 Mini Dock Other accessories on O-W700 sheet	43R1987 43R1988 43R9150 43N3406 43N3411 43R8782	W700 Series Li-Ion Battery 9-cell ThinkPad 170W AC Adapter ThinkPad 17W Business Topload Case ThinkVision® USB Soundbar (up to 22") ThinkVision L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	45J7914 41R4421 43R9117 40Y7616 4422HB6 4421HB2									

See footnotes for important warranty information
 US models announced January 6, 2009

❖ Intel Centrino 2 with vPro™ technology

Partial list of accessories supported on:

- ThinkPad W700 originally announced on August 12, 2008
- ThinkPad W700ds originally announced on January 6, 2009

Memory

1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	ann 11/04/08
1GB PC3-8500 DDR3 SODIMM	43R1987	ann 08/05/08
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	ann 11/04/08
2GB PC3-8500 DDR3 SODIMM	43R1988	ann 08/05/08

Ultrabay Slim 9.5mm

Serial ATA Hard Drive Bay Adapter II SATA ⁴⁸	43R1980	ann 08/05/08
CD-RW/DVD-ROM Ultrabay Slim SATA ⁴⁸	43N3213	ann 08/05/08
DVD Burner Ultrabay Slim SATA 1.5Gb/s ⁴⁸	43N3214	ann 08/05/08
Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s ⁴⁸	43N3215	ann 08/05/08

⁴⁸ Slim 9.5mm device in 12.7mm bay shows gap above the device.

Ultrabay Enhanced 12.7mm

DVD-ROM Ultrabay Enhanced SATA 1.5Gb/s	43R9147	ann 08/05/08
CD-RW/DVD-ROM Ultrabay Enh SATA	43R9148	ann 08/05/08
DVD Burner Ultrabay Enh SATA 1.5Gb/s	43R9149	ann 08/05/08
Blu-ray™ Burner Ultrabay Enh SATA 1.5Gb/s	43R9150	ann 08/05/08

Storage and removable storage

160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann 10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann 01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann 01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann 08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann 01/20/09

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter 43R1980 in the Ultrabay

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ann 08/26/08
USB 2.0 Essential Memory Key 2GB	41U4944	ann 01/23/07
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 Security Memory Key 2GB	41U5119	ann 07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann 07/17/07
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 Portable Diskette Drive	05K9276	ann 06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann 01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann 09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07

ThinkPad Expansion

ThinkPad W700 Mini Dock	43R8782	ann 08/12/08
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More information at www.lenovo.com/support/W700minidock

Keyboard

TrackPoint Cap Collection	73P2698	ann 12/16/03
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04
USB Keyboard with UltraNav	31P8950	ann 01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann 04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann 05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann 08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann 06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann 11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann 01/22/08

Security

Kensington® Cable Lock from Lenovo	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 06/27/06

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann 06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06

Batteries

W700 Series Li-Ion Battery 9-cell	45J7914	ann 08/12/08
ThinkPad 170W AC Adapter	41R4421	ann 08/12/08

More information at www.lenovo.com/alldaycomputing

Carrying Cases

<i>Up to 17.0" widescreen models:</i>		
ThinkPad 17W Business Topload Case	43R9117	ann 08/12/08

Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann 09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann 09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann 04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann 09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann 09/17/08

Monitor Accessories⁴⁶

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad® X61 (7675) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Display	Disk SATA GB ⁵ rpm	Optical in UltraBase	ThinkPad X6 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Blue-tooth	Finger print reader	Battery cells	Preload	Avail date
7675-7FU	T7300	2.00	1GB	12.1" XGA	160GB 5400		UltraBase	* Intel 11n ²⁸		Blue	Finger	8-cell	Home Basic	Jun 07
7675-55U	T7300	2.00	2GB	12.1" XGA	160GB 5400	Combo	UltraBase	* Intel 11a/b/g ³²	Verizon	Blue	Finger	8-cell	Business 32	Jun 07
7675-4KU	T7300	2.00	1GB	12.1" XGA	120GB 5400		UltraBase	* Intel 11a/b/g		Blue	Finger	4-cell	Business 32	Jun 07
7675-7KU	T7300	2.00	1GB	12.1" XGA	120GB 5400	DVD±RW	UltraBase	* Intel 11n	1G Turbo	Blue	Finger	8-cell	Business 32	Jun 07
7675-59U	T7300	2.00	2GB	12.1" XGA	160GB 5400	DVD±RW	UltraBase	* Intel 11a/b/g	Verizon	Blue	Finger	8-cell	Business 32	Jun 07
7675-8PU	T7250	2.00	1GB	12.1" XGA	120GB 5400		UltraBase	* Intel 11n		Blue	Finger	4-cell	Business 32	Sep 07
7675-92U	T7500	2.20	1GB	12.1" XGA	160GB 5400	DVD±RW	UltraBase	* Intel 11n		Blue	Finger	8-cell	Business 32	Sep 07
7675-93U	T7500	2.20	2GB	12.1" XGA	160GB 7200	DVD±RW	UltraBase	* Intel 11n	1G Turbo	Blue	Finger	8-cell	Business 32	Sep 07
7675-H7U	T8100	2.10	1GB	12.1" XGA	100GB 7200	DVD±RW	UltraBase	* Intel 11n		Blue	Finger	8-cell	XP Pro	Feb 08
7675-HMUT	T8100	2.10	2GB	12.1" XGA	100GB 7200	DVD±RW	UltraBase	* Intel 11n	1G Turbo	Blue	Finger	8-cell	Business 32	Mar 08
7675-K2U	T8300	2.40	1GB	12.1" XGA	160GB 5400	DVD±RW	UltraBase	* Intel 11n	Verizon	Blue	Finger	8-cell	XP Pro	Feb 08
7675-K3U	T8300	2.40	2GB	12.1" XGA	160GB 5400	DVD±RW	UltraBase	* Intel 11n	Verizon	Blue	Finger	8-cell	Business 32	Mar 08

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty

Positioning Processor	<i>Thinnest and lightest; one spindle</i> Intel® Core™ 2 Duo processor T7250, T7300, T7500, T8100, or T8300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz bus; T7250: 2MB L2 cache; T7300/T7500: 4MB L2 cache; T8100/T8300: 3MB L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Home Basic Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ 7FU/7KU/8PU/92U: Vista Basic logo ◇ Other Vista models: Vista Premium logo
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available	Preloaded applications¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (combo, DVD±RW) • Corel® WinDVD® (combo, DVD±RW)
Diskette drive	None (use optional USB-based diskette drive)	Supports ThinkVantage® technologies
EIDE Combo	Some: DVD-ROM/CD-RW, 24X/24X/24X/8X ²¹ speed, removable from X6 UltraBase	
EIDE DVD±RW	Some: DVD burner, Super Multi-Burner (40Y8623), dual-layer, removable from X6	ThinkPad X6 UltraBase™ • Provides desktop expansion and cable management for X60 Series • Easily connects to the bottom of the X60 Series for traveling • Converts ThinkPad to a two-spindle system with optional flat bezel Ultrabay Slim options in left side: – ThinkPad Advanced Ultrabay Battery II 3-cell (flat) 43R9250 – ThinkPad DVD Ultrabay Slim Burner (flat bezel) 41N5643 – Serial Hard Drive Ultrabay Slim Adapter (flat bezel) 40Y8725 Disks supported: • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411
Ultrabay™ Slim	Supports Ultrabay Slim devices in optional or standard X6 UltraBase	
Serial ATA disk	100GB⁸ (7200 rpm), 120GB (5400 rpm), or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional X6 UltraBase, ThinkPad Shock Mounted Hard Drive, Active Protection System™	Other features: • Power button (front) • Stereo speakers (1 watt) • Security key lock, security keyhole, and optional security screw • Serial and parallel ports • Analog VGA monitor port (no DVI) • Four USB 2.0 ports • Gigabit ethernet port • Modem port • Microphone in and headphone out • Requires 65 or 90 watt AC adapter • Retractable feet; 1.48 lb; 670g
Display	12.1" (308mm) XGA (1024x768) TFT color , anti-glare, 150 nits, 4:3 aspect ratio, 300:1 contrast ratio	
Graphics controller	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965	65-watt (GMA graphics) AC Adapter ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
Graphics - external	External VGA monitor support via analog DB-15 connector / no DVI-out support	
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys, standard-size ²⁶ keys 97% size of T Series, 18.5mm pitch, 2.5mm stroke	
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	
Touch pad	None	
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³	<i>without X6 UltraBase; 4-cell:</i> 10.5" x 8.3" x .80-1.39"; 268mm x 211mm x 20-35mm <i>without X6 UltraBase; 8-cell:</i> 10.5" x 9.4" x .80-1.39"; 268mm x 238mm x 20-35mm <i>with Enhanced 4-cell battery:</i> from 3.11 lb (1.41kg); <i>8-cell:</i> from 3.59 lb (1.63kg)	
Weight ²	<i>Color:</i> black; <i>All:</i> magnesium alloy	
Case material	Lithium Ion Enhanced Cap Battery 4-cell or Lithium Ion 8-cell ;	
Battery - type	supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional X6 UltraBase (for two batteries)	
Battery - life ¹⁰	<i>Enh 4-cell:</i> up to 3.9 hr; <i>8-cell:</i> up to 7.8 hr; <i>8-cell and Extended Life Battery:</i> up to 10.7	
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)	
Media slice	Some: X6 UltraBase media slice (see right side)	
Secure Digital slot	One Secure Digital Card slot, supports SD memory cards used in consumer devices	
PC Card slot	One Type I or one Type II, CardBus Plus (34mm ExpressCard via adapter), door	
Ports	Three USB 2.0, DB-15 (external VGA monitor), -RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios	
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable	
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG	
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)	
Verizon ¹⁶	Some: Wireless WAN, Sierra Wireless 1xEV-DO Network Adapter, Mini PCIe adapter, EV-DO Rev. A, rod antenna, service contract reqd with Verizon® Wireless	
1G Turbo	Some: Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator	
Modem	56K V.92 ⁵ modem in Communications Daughter Card	
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator	
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1, PXE	
Intel AMT	Intel Active Management Technology (AMT)	
Audio support	High Definition (HD) Audio, AD1984 codec / mono speaker 0.5 watt, volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)	
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant	
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip	
Limited warranty ¹²	1-year - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available	

See footnotes for important warranty information

* Intel Centrino® processor technology

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US models announced March 25, 2008;

* Intel Centrino with vPro™ technology

(SM3-1) March 2008

previous models on May 31, September 4, 2007, or January 8, 2008

US models withdrawn effective August or December 2007

Type-model	Proc- essor	GHz	Memory	Display	Disk SATA GB ³ rpm	Optical in UltraBase	ThinkPad X6 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Finger Bat- tery tooth reader cells	Workhorse (W) Preload EW 9-month Global (G)	Avail date
7673-74U	T7300	2.00	1GB	12.1" XGA	80GB 5400			* Intel 4965AG ³²		Blue Fing 8-cell	XP Pro	W G Jun 07
7673-66U	T7300	2.00	1GB	12.1" XGA	80GB 5400			* Intel 4965AG		8-cell XP Pro	W G Jun 07	
7673-65U	T7300	2.00	1GB	12.1" XGA	80GB 5400			* Intel 4965AG		8-cell Business	32 W G Jun 07	
7673-3HU	T7100	1.80	1GB	12.1" XGA	80GB 5400			* Intel 11a/b/g ³²		Blue Fing 8-cell	Business 64 EW	Jun 07
7673-7EU	T7300	2.00	2GB	12.1" XGA	160 5400	DVD±RW	UltraBase	* Intel 11a/b/g		Blue Fing 8-cell	Business 64	Jun 07
7673-4NU	T7300	2.00	2GB	12.1" XGA	120G 5400			* Intel 4965AG		Blue Fing 8-cell	Business 32 W G	Jun 07
7673-A5U	T7500	2.20	2GB	12.1" XGA	100G 7200			* Intel 11a/b/g		Blue Fing 8-cell	Business 32 W	Oct 07
7673-8TU	T7250	2.00	2GB	12.1" XGA	160G 7200			* Intel 4965AG	1G Turbo	Blue Fing 8-cell	Business 32 W	Oct 07
7673-H6U	T8100	2.10	1GB	12.1" XGA	120G 5400			* Intel 11n ²⁸	1G Turbo	Blue Fing 4-cell	Business 32 W G	Feb 08
7673-J5U	T8300	2.40	2GB	12.1" XGA	160G 5400			* Intel 11n ²⁸	1G Turbo	Blue Fing 4-cell	Business 32 W G	Feb 08
7673-5GU	T7300	2.00	2GB	12.1" XGA	120G 5400			* Intel 4965AG	WWAN upg	Blue Fing 8-cell	Business 32 W	Feb 08
Processor	Intel® Core™ 2 Duo processor T7100, T7250, T7300, T7500, T8100, or T8300 with dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, and 800MHz bus; T7100/T7250: 2MB L2 cache; T7300/T7500: 4MB L2; T8100/T8300: 3MB L2 cache										Preloaded operating system ²⁰	
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										- Some: Microsoft® Windows® XP Professional - Some: Microsoft Windows Vista® Home Basic Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (32-bit) ◇ Vista 1GB models: Vista Basic logo ◇ 2GB models: Vista Premium logo	
Diskette drive	None (use optional USB-based diskette drive)										Preloaded applications ¹⁴ (all OSes; only some listed)	
EIDE DVD±RW	Some: DVD burner, Super Multi-Burner (40Y8623), dual-layer, removable from X6										• Rescue and Recovery™	
Ultrabay™ Slim	Supports Ultrabay Slim devices in optional or standard X6 UltraBase										• Access Connections™	
Serial ATA disk	80GB ⁸ (5400 rpm), 100GB (7200 rpm), 120GB (5400), or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional X6 UltraBase, ThinkPad Shock Mounted Hard Drive, Active Protection System™										• Client Security Solution™	
Display	12.1" (308mm) XGA (1024x768) TFT color, anti-glare, 150 nits, 4:3 aspect ratio, 300:1 contrast ratio										• ThinkVantage Productivity Center • ThinkVantage System Update • Norton Internet Security™	
Graphics controller	Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965										• Diskeeper® Home • PC-Doctor™ (diagnostics)	
Graphics - external	External VGA monitor support via analog DB-15 connector / no DVI-out support										• Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW)	
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys, standard-size ²⁶ keys 97% size of T Series, 18.5mm pitch, 2.5mm stroke										Supports ThinkVantage® technologies	
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass										ThinkPad X6 UltraBase™	
Touch pad	None										• Provides desktop expansion and cable management for X60 Series	
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										• Easily connects to the bottom of the X60 Series for traveling	
Dimensions ³	without X6 UltraBase; 4-cell: 10.5" x 8.3" x .80-1.39"; 268mm x 211mm x 20-35mm without X6 UltraBase; 8-cell: 10.5" x 9.4" x .80-1.39"; 268mm x 238mm x 20-35mm with Enhanced 4-cell battery: from 3.11 lb (1.41kg); 8-cell: from 3.59 lb (1.63kg)										• Converts ThinkPad to a two-spindle system with optional flat bezel Ultrabay Slim options in left side: – ThinkPad Advanced Ultrabay Battery II 3-cell (flat) 43R9250 – ThinkPad DVD Ultrabay Slim Burner (flat bezel) 41N5643 – Serial Hard Drive Ultrabay Slim Adapter (flat bezel) 40Y8725 Disks supported: • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411	
Weight ²	Color: black; All: magnesium alloy										Other features: • Stereo speakers (1 watt) • Security key lock, security keyhole, and optional security screw • Serial and parallel ports • Analog VGA monitor port (no DVI) • Four USB 2.0 ports • Gigabit ethernet port • Modem port • Microphone in and headphone out • Requires 65 or 90 watt AC adapter • Retractable feet; 1.48 lb; 670g	
Case material	Lithium Ion 4-cell or 8-cell; supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional X6 UltraBase (for two batteries)										65-watt (GMA graphics) AC Adapter ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378	
Battery - type	Lithium Ion 4-cell or 8-cell; supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional X6 UltraBase (for two batteries)											
Battery - life ¹⁰	Enh 4-cell: up to 3.9 hr; 8-cell: up to 7.8 hr; 8-cell and Extended Life Battery: up to 10.7											
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)											
Media slice	Some: X6 UltraBase media slice (see right side)											
Secure Digital slot	One Secure Digital Card slot, supports SD memory cards used in consumer devices											
PC Card	One slot (Type I, Type II), CardBus Plus (34mm ExpressCard via adapter), door											
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)											
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios											
Mini PCI Express	Two Mini PCI Express slots / 802.11 and WWAN are customer upgradable											
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG											
Intel 4965AG ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG											
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)											
WWAN upg ¹⁶	Some: Wireless WAN upgradable, requires Verizon® EV-DO Rev. A Mini PCIe (43R1818)											
1G Turbo	Some: Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator											
Modem	56K V.92 ⁹ modem in Communications Daughter Card											
Bluetooth™	Some: Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator											
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1, PXE											
Intel AMT	Intel Active Management Technology (AMT)											
Audio support	High Definition (HD) Audio, AD1984 codec / mono speaker, 0.5 watt / volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)											
Security	Power-on password, hard disk password, supervisor password, security keyhole											
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant											
Fingerprint reader	Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip											
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available											
2GB PC2-5300 DDR2 SODIMM	40Y7735			ThinkPad X60 High Capacity 8-cell			40Y7003					
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406			ThinkPad X60 Extended Life Battery			40Y7005					
ThinkPad X6 UltraBase	40Y8116			ThinkPlus™.22 2-year LOR 9x5 NBD			41C9175					
Other accessories on O-X60 sheet											Other accessories at lenovo.com/accessories	

See footnotes for important warranty information

* Intel Centrino® processor technology

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US model announced February 19, 2008;

* Intel Centrino with vPro™ technology

(SM3-2) February 2008

previous models on May 31, October 30, 2007, or January 8, 2008

< US models withdrawn effective January or May 2008

ThinkPad® X61s (7669) - TopSeller

Type-model	Low Voltage proc-essor	GHz	Memory	Display	Disk SATA GB ⁸ rpm	Optical in UltraBase	ThinkPad X6 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Finger-print reader	Bat-tery cells	Vista preload	Avail date
7669-45U	L7500 LV	1.60	2GB	12.1" XGA	100G 7200	DVD±RW	UltraBase	* Intel 11a/b/g ³²	Verizon	Finger 8-cell	8-cell	Ultimate 32	Jun 07
7669-7DU	L7300 LV	1.40	1GB	12.1" UL XGA	80GB 5400		UltraBase	* Intel 11a/b/g		Finger Slim-4	4-cell	Business 32	Jun 07
7669-88U	L7500 LV	1.60	2GB	12.1" UL XGA	160G 5400	DVD±RW	UltraBase	* Intel 11a/b/g		Finger 8-cell	8-cell	Business 64	Jun 07
7669-85U	L7500 LV	1.60	1GB	12.1" UL XGA	120G 5400		UltraBase	* Intel 11a/b/g		Finger 8-cell	8-cell	Home Basic 32	Jun 07
7669-3GU	L7500 LV	1.60	2GB	12.1" XGA	160G 7200	DVD±RW	UltraBase	* Intel 11n ²⁸	1G Turbo	Finger 8-cell	8-cell	Business 32	Sep 07
7669-3HU	L7500 LV	1.60	1GB	12.1" XGA	100G 7200		UltraBase	* Intel 11n		Finger 8-cell	8-cell	Business 32	Sep 07

• These small and medium business (SMB) models are part of the US TopSeller™ Program
 • These models have a 3-year limited warranty¹²

Positioning	<i>Thinnest and lightest; one spindle</i>	Preloaded operating system²⁰ - Some: Microsoft® Windows® Vista™ Home Basic Edition (32-bit) - Some: Microsoft Windows Vista™ Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit) ♦ 7DU/85U/3HU: Vista Basic logo ♦ 45U/88U/3GU: Vista Premium logo Preloaded applications¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security™ • Diskeeper® Home • PC-Doctor™ (diagnostics) • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW)	
Processor	Intel® Core™ 2 Duo processor L7300 or L7500 with low voltage, dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache		
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available		
Diskette drive	None (use optional USB-based diskette drive)		
EIDE DVD±RW	Some: DVD burner, Super Multi-Burner (40Y8623), dual-layer, removable from X6		
Ultrabay™ Slim	Supports Ultrabay Slim devices in optional or standard X6 UltraBase		
Serial ATA disk	80GB ⁸ (5400 rpm), 100GB (7200 rpm), 120GB (5400), or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional X6 UltraBase, ThinkPad Shock Mounted Hard Drive, Active Protection System™		
Display	Some: 12.1" (308mm) XGA (1024x768) TFT color, anti-glare, 150 nits Some: [UL] 12.1" (308mm) UltraLight XGA (1024x768) TFT color, anti-glare, 180 nits All: 4:3 aspect ratio, 300:1 contrast ratio		
Graphics controller	Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965		
Graphics - external	External VGA monitor support via analog DB-15 connector / no DVI-out support		
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys, standard-size ²⁶ keys 97% size of T Series, 18.5mm pitch, 2.5mm stroke		
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass		
Touch pad	None		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions		
Dimensions ³	without X6 UltraBase: Slim 4-cell: 10.5" x 8.3" x 0.8-1.1"; 268mm x 211mm x 20-28mm without X6 UltraBase: Enh 4-cell: 10.5" x 8.3" x 0.8-1.1"; 268mm x 211mm x 20-35mm without X6 UltraBase: 8-cell: 10.5" x 9.4" x 0.8-1.4"; 268mm x 238mm x 20-35mm Slim 4-cell: from 2.73 lb (1.24kg); Enh 4-cell: from 2.83 (1.28kg); 8-cell: 3.30 lb (1.50kg)		
Weight ²			
Case material	Color: black; All: magnesium alloy		
Battery - type	Lithium Ion Slim Line Battery 4-cell (prismatic) or Lithium Ion 8-cell; supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional X6 UltraBase (for two batteries)		
Battery - life ¹⁰	Slim 4-cell: up to 3.5 hr; 8-cell: up to 9.0 hr; 8-cell and Extended Life Battery: up to 12.5		
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)		
Media slice	Some: X6 UltraBase media slice (see right side)		
Secure Digital slot	One Secure Digital Card slot, supports SD memory cards used in consumer devices		
PC Card	One slot (Type I, Type II), CardBus Plus (34mm ExpressCard via adapter), door		
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)		
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios		
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable		
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG		
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)		
Verizon ¹⁶	Some: Wireless WAN, Sierra Wireless 1xEV-DO Network Adapter, Mini PCIe adapter, EV-DO Rev. A, rod antenna, service contract reqd with Verizon® Wireless		
1G Turbo	Some: Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator		
Modem	56K V.92 ⁵ modem in Communications Daughter Card		
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator		
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1, PXE		
Intel AMT	Intel Active Management Technology (iAMT)		
Audio support	High Definition (HD) Audio, AD1984 codec / mono speaker, 0.5 watt / volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)		
Security	Power-on password, hard disk password, supervisor password, security keyhole		
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant		
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip		
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available		
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	X60 Slim Line Battery 4-cell (prismatic)	40Y6999
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	X60 Enhanced Capacity Battery 4-cell	40Y7001
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkPad X60 High Capacity 8-cell	40Y7003
ThinkPad X6 UltraBase	40Y8116	ThinkPad X60 Extended Life Battery	40Y7005

Other features:
 • Stereo speakers (1 watt)
 • Security key lock, security keyhole, and optional security screw
 • Serial and parallel ports
 • Analog VGA monitor port (no DVI)
 • Four USB 2.0 ports
 • Gigabit ethernet port
 • Modem port
 • Microphone in and headphone out
 • Requires 65 or 90 watt AC adapter
 • Retractable feet; 1.48 lb; 670g
 65-watt (GMA graphics) AC Adapter ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378

See footnotes for important warranty information

US models announced September 4, 2007; previous models on May 31, 2007

US models withdrawn effective August 2007

* Intel Centrino® processor technology

* Intel Centrino with vPro™ technology

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(KB3-1) September 2007

Type-model	Low Voltage proc- essor	GHz	Memory	Display	Disk SATA GB ³	Optical in UltraBase	ThinkPad UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Finger Bat- print tery reader cells	Workhorse (W) Global (G)	Avail date
7666-34U	L7500	1.60	1GB	12.1" XGA	80GB 5400			*Intel 4965AG ³²		Finger 8	Business 32 W G	Jun 07
7666-36U	L7500	1.60	1GB	12.1" XGA	120G 5400			*Intel 4965AG		Finger 8	Business 32 W G	Jun 07
7666-47U	L7500	1.60	1GB	12.1" XGA	160G 5400			*Intel 11a/b/g ³²	Verizon	Finger 8	Business 32 W	Jun 07
7666-76U	L7300	1.40	512M	12.1" UL XGA	80GB 5400			*Intel 11a/b/g		Finger 4	Business 32	Jun 07
7666-54U	L7500	1.60	1GB	12.1" XGA	80GB 5400			*Intel 11n ²⁸		Finger 8	Business 64	Jun 07
7666-43U	L7500	1.60	1GB	12.1" XGA	120G 5400	DVD±RW	UltraBase	*Intel 11a/b/g	AT&T	Finger 8	Ultimate 32	Jun 07
7666-3FU	L7500	1.60	1GB	12.1" XGA	80GB 5400			*Intel 4965AG		Finger 8	XP Pro	W G Jun 07
7666-3EU	L7500	1.60	1GB	12.1" XGA	120G 5400			*Intel 4965AG		Finger 8	XP Pro	W G Jun 07
7666-B7U	L7700	1.80	2GB	12.1" XGA	100G 7200			*Intel 4965AG		Finger 8	Business 32 W	Oct 07
7666-8LU	L7500	1.60	2GB	12.1" XGA	160G 7200			*Intel 4965AG	1G Turbo	Finger 8	Business 32 W	Oct 07
7666-48U	L7500	1.60	1GB	12.1" XGA	120G 5400			*Intel 4965AG	WWAN upg	Finger 8	Business 32 W	Feb 08
Processor	Intel® Core™ 2 Duo processor L7300, L7500, or L7700 with low voltage, dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache										Preloaded operating system ²⁰	
Memory	512MB, 1GB, or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										- Some: Microsoft® Windows® XP Professional - Some: Microsoft Windows Vista™ Business Edition (32-bit) - Some: Microsoft Windows Vista Business Edition (64-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit)	
Diskette drive	None (use optional USB-based diskette drive)										◇ 2GB models: Vista Premium logo ◇ Other Vista models: Vista Basic logo	
EIDE DVD±RW	Some: DVD burner, Super Multi-Burner (40Y8623), dual-layer, removable from X6										Preloaded applications ¹⁴ (all OSes; only some listed)	
Ultrabay™ Slim	Supports Ultrabay Slim devices in optional or standard X6 UltraBase										• Rescue and Recovery™	
Serial ATA disk	80GB ⁸ (5400 rpm), 100GB (7200 rpm), 120GB (5400), or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional X6 UltraBase, ThinkPad Shock Mounted Hard Drive, Active Protection System™										• Access Connections™	
Display	Some: 12.1" (308mm) XGA (1024x768) TFT color, anti-glare, 150 nits Some: [UL] 12.1" (308mm) UltraLight XGA (1024x768) TFT color, anti-glare, 180 nits All: 4:3 aspect ratio, 300:1 contrast ratio										• Client Security Solution™	
Graphics controller	Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965										• ThinkVantage Productivity Center	
Graphics - external	External VGA monitor support via analog DB-15 connector / no DVI-out support										• Norton Internet Security™	
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys, standard-size ²⁶ keys 97% size of T Series, 18.5mm pitch, 2.5mm stroke										• Diskeeper® Home	
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass										• PC-Doctor™ (diagnostics)	
Touch pad	None										• Some: Fingerprint Software	
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										• Microsoft Office 2007 Trial (60-day)	
Dimensions ³	without X6 UltraBase: Slim 4-cell: 10.5" x 8.3" x 0.8-1.1"; 268mm x 211mm x 20-28mm without X6 UltraBase: Enh 4-cell: 10.5" x 8.3" x 0.8-1.1"; 268mm x 211mm x 20-35mm without X6 UltraBase: 8-cell: 10.5" x 9.4" x 0.8-1.4"; 268mm x 238mm x 20-35mm Slim 4-cell: from 2.73 lb (1.24kg); Enh 4-cell: from 2.83 (1.28kg); 8-cell: 3.30 lb (1.50kg)										Supports ThinkVantage® technologies	
Weight ²											ThinkPad X6 UltraBase™	
Case material	Color: black; All: magnesium alloy										• Provides desktop expansion and cable management for X60 Series	
Battery - type	Lithium Ion Slim Line Battery 4-cell (prismatic) or Lithium Ion 8-cell; supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim device in optional X6 UltraBase (for two batteries)										• Easily connects to the bottom of the X60 Series for traveling	
Battery - life ¹⁰	Slim 4-cell: up to 3.5 hr; 8-cell: up to 9.0 hr; 8-cell and Extended Life Battery: up to 12.5										• Converts ThinkPad to a two-spindle system with optional flat bezel Ultrabay Slim options in left side: - ThinkPad Advanced Ultrabay Battery II 3-cell (flat) 43R9250 - ThinkPad DVD Ultrabay Slim Burner (flat bezel) 41N5643 - Serial Hard Drive Ultrabay Slim Adapter (flat bezel) 40Y8725	
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)										Disks supported: • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411	
Media slice	Some: X6 UltraBase media slice (see right side)										Other features: • Stereo speakers (1 watt)	
Secure Digital slot	One Secure Digital Card slot, supports SD memory cards used in consumer devices										• Security key lock, security keyhole, and optional security screw	
PC Card slot	One Type I or one Type II, CardBus Plus (34mm ExpressCard via adapter), door										• Serial and parallel ports	
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)										• Analog VGA monitor port (no DVI)	
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios										• Four USB 2.0 ports	
Mini PCI Express	Two Mini PCI Express slots										• Gigabit ethernet port	
Intel 11a/b/g ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel PRO/Wireless 3945ABG										• Modem port	
Intel 4965AG ³²	Some: 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG										• Microphone in and headphone out	
Intel 11n ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)										• Requires 65 or 90 watt AC adapter	
WWAN upg	Some: Wireless WAN upgradable, requires Verizon® EV-DO Rev. A Mini PCIe (43R1818)										• Retractable feet; 1.48 lb; 670g	
Verizon ¹⁶	Some: Wireless WAN, Sierra Wireless 1xEV-DO Network Adapter, Mini PCIe adapter, EV-DO Rev. A, rod antenna, service contract reqd with Verizon										65-watt (GMA graphics) AC Adapter	
AT&T ²³	Some: Wireless WAN, GPRS/EDGE/UMTS/HSDPA support, Mini PCIe adapter and SIM, rod antenna, service contract reqd with AT&T®										ENERGY STAR® 4.0-compliant	
1G Turbo	Some: Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator										International Warranty Service ¹⁷	
Modem	56K V.92 ⁹ modem in Communications Daughter Card										24 hour x 7 day ¹⁸ toll-free support	
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator										during the warranty period ¹²	
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1, PXE										via 800-426-7378	
Intel AMT	Intel Active Management Technology (IAMT)											
Audio support	High Definition (HD) Audio, AD1984 codec / mono speaker, 0.5 watt / volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)											
Security	Power-on password, hard disk password, supervisor password, security keyhole											
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant											
Fingerprint reader	Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip											
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available											

See footnotes for important warranty information

* Intel Centrino® processor technology

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Ⓜ US model announced February 19, 2008; previous models on May 31 or October 30, 2007

* Intel Centrino with vPro™ technology

(KB3-2) February 2008

Ⓜ US models withdrawn effective Sept 2007, Jan 2008, or May 2008

ThinkPad® X61s (7667) - Onsite

Type-model	Low Voltage proc- essor	GHz	Memory	Display	Disk SATA GB ⁸ rpm	Optical in UltraBase	ThinkPad X6 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Finger Bat- tery reader cells	Bat- tery Preload	Workhorse (W) Global (G) GMP (P)	Avail date
7667-34U	L7500	1.60	1GB	12.1" XGA	80GB 5400	Optional	Optional	* Intel 4965AG ³²	None	Finger	8 Business	WG P	Jun 07
7667-36U	L7500	1.60	1GB	12.1" XGA	120G 5400	Optional	Optional	* Intel 4965AG	None	Finger	8 Business	WG P	Jun 07
7667-3FU	L7500	1.60	1GB	12.1" XGA	80GB 5400	Optional	Optional	* Intel 4965AG	None	8 XP Pro	8 XP Pro	WG P	Jun 07
7667-3EU	L7500	1.60	1GB	12.1" XGA	120G 5400	Optional	Optional	* Intel 4965AG	None	8 XP Pro	8 XP Pro	WG P	Jun 07

• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Processor	Intel® Core™ 2 Duo processor L7500 with low voltage, dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache										Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional - Some: Microsoft Windows Vista® Business Edition (32-bit) ◇ Vista models: Vista Basic logo		
Memory	1GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										Preloaded applications¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Some: Fingerprint Software • Microsoft Office 2007 Trial (60-day)		
Diskette drive EIDE DVD±RW Ultrabay™ Slim Serial ATA disk	None (use optional USB-based diskette drive) Option for <i>ThinkPad X6 Tablet UltraBase</i> Supports Ultrabay Slim devices in optional X6 <i>UltraBase</i> 80GB⁸ (5400 rpm), 120GB (5400) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional X6 <i>UltraBase</i> , ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Display	12.1" (308mm) XGA (1024x768) TFT color , anti-glare, 150 nits, 4:3 aspect ratio, 300:1 contrast ratio												
Graphics controller Graphics - external	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965 External VGA monitor support via analog DB-15 connector / no DVI-out support												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows/Appl keys, standard-size ²⁶ keys 97% size of T Series, 18.5mm pitch, 2.5mm stroke												
TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	<i>without X6 UltraBase: Slim 4-cell:</i> 10.5" x 8.3" x 0.8-1.1"; 268mm x 211mm x 20-28mm <i>without X6 UltraBase: Enh 4-cell:</i> 10.5" x 8.3" x 0.8-1.1"; 268mm x 211mm x 20-35mm <i>without X6 UltraBase: 8-cell:</i> 10.5" x 9.4" x 0.8-1.4"; 268mm x 238mm x 20-35mm <i>Slim 4-cell:</i> from 2.73 lb (1.24kg); <i>Enh 4-cell:</i> from 2.83 (1.28kg); <i>8-cell:</i> 3.30 lb (1.50kg) <i>Color:</i> black; <i>All:</i> magnesium alloy										Supports ThinkVantage® technologies		
Weight ² Case material Battery - type	Lithium Ion 8-cell ; supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional X6 UltraBase (for two batteries)										ThinkPad X6 UltraBase™ • Provides desktop expansion and cable management for X60 Series • Easily connects to the bottom of the X60 Series for traveling • Converts ThinkPad to a two-spindle system with optional flat bezel Ultrabay Slim options in left side: – ThinkPad Advanced Ultrabay Battery II 3-cell (flat) 43R9250 – ThinkPad DVD Ultrabay Slim Burner (flat bezel) 41N5643 – Serial Hard Drive Ultrabay Slim Adapter (flat bezel) 40Y8725 Disks supported: • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411		
Battery - life ¹⁰	<i>Slim 4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 9.0 hr; <i>8-cell and Extended Life Battery:</i> up to 12.5												
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)												
Media slice Secure Digital slot PC Card slot Ports	<i>Option: ThinkPad X6 UltraBase media slice</i> (see right side) One Secure Digital Card slot, supports SD memory cards used in consumer devices One Type I or one Type II, CardBus Plus (34mm ExpressCard via adapter), door Three USB 2.0, DB-15 (external VGA monitor), -RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)										Other features: • Stereo speakers (1 watt) • Security key lock, security keyhole, and optional security screw • Serial and parallel ports • Analog VGA monitor port (no DVI) • Four USB 2.0 ports • Gigabit ethernet port • Modem port • Microphone in and headphone out • Requires 65 or 90 watt AC adapter • Retractable feet; 1.48 lb; 670g		
Wireless antenna Mini PCI Express Intel 4965AG ³² WWAN Turbo 1G Modem Bluetooth™ Ethernet Intel AMT Audio support	UltraConnect™ II Antenna / on-off switch for all wireless radios Two Mini PCI Express slots / only 802.11 wireless is customer upgradable 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG None None 56K V.92 ⁹ modem in Communications Daughter Card Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1, PXE Intel Active Management Technology (IAMT) High Definition (HD) Audio, AD1984 codec / mono speaker 0.5 watt / volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)												
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module , Atmel chip, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest , swipe sensor, supports the security chip										65-watt (GMA graphics) AC Adapter ENERGY STAR® 4.0-compliant ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378		
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available												
ThinkPlus™.22 4-year LOR ²⁴ 9x5 NBD ThinkPlus 5-year LOR 9x5 NBD	12X5630 43R2162				Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty								

See footnotes for important warranty information
US models announced May 31, 2007

* Intel Centrino® with vPro™ technology

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(KB3-3) February 2008

≠ US models withdrawn effective May 2008

Partial list of accessories supported on:

- ThinkPad X60 originally announced January 5, 2006
- ThinkPad X60s originally announced January 5, 2006
- ThinkPad X61 originally announced May 31, 2007
- ThinkPad X61s originally announced May 31, 2007

Memory

512MB PC2-5300 DDR2 SODIMM	40Y7733	ann 01/05/06
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	ann 03/25/08
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann 01/05/06
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	ann 03/25/08
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann 11/28/06

Ultrabay Slim 9.5mm (best to use flat bezel options)

Most Ultrabay Slim options supported in X6 Ultrabase

Ultrabay Enhanced 12.7mm

None

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann 03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann 10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann 01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann 01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann 08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann 01/20/09

⁴¹ Can be used as the main disk or with

ThinkPad Serial ATA Hard Drive Ultrabay Slim

Adapter 40Y8725 in the optional ThinkPad X6 Ultrabase 40Y8116.

USB 2.0 Essential Memory Key 2GB	41U4944	ann 01/23/07
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 Security Memory Key 2GB	41U5119	ann 07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann 07/17/07
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 Portable Diskette Drive	05K9276	ann 06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann 01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann 09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07

Wireless WAN (Mini PCI Express)

Only 7673-5GU, 7675-4NU, 7666-36U, and 7666-48U models:

Verizon WWAN EV-DO Rev. A Mini PCIe	43R1818	ann 03/04/08
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ThinkPad Expansion

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann 02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann 09/20/05
ThinkPad X6 UltraBase	40Y8116	ann 01/05/06

Keyboard

TrackPoint Cap Collection	73P2698	ann 12/16/03
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04
USB Keyboard with UltraNav	31P8950	ann 01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann 04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann 05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann 08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann 06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann 11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann 01/22/08
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04

Security

Kensington® Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
USB Gemplus Smart Card Reader	41N3040	ann 02/21/06
PC Card Gemplus Smart Card Reader	41N3004	ann 12/13/05

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann 06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06

Batteries

X60s only:

X60 Slim Line Battery 4-cell (prismatic)	40Y6999	ann 01/05/06
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All models:

X60 Enhanced Cap Battery 4-cell (cylindric)	40Y7001	ann 01/05/06
X60 High Capacity 8-cell (cylindrical)	40Y7003	ann 01/05/06
X60 Extended Life Battery	40Y7005	ann 01/05/06
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann 09/20/05

⁴⁴ Requires the ThinkPad 90W AC Adapter

40Y7659 (adapter provided with some systems).

ThinkPad 65W AC Adapter	40Y7696	ann 09/20/05
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460	ann 11/27/07
Belkin 1 Outlet Notebook Surge	31P7658	
Belkin Universal Notebook Travel Surge	22P7127	
Belkin Surge Protector	31P7659	

Carrying Cases

Up to 13.3" widescreen models:

ThinkPad Ultraportable Case	41U5062	ann 05/13/08
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Up to 14.1" widescreen models:

ThinkPad Expander Case	43R9118	ann 06/24/08
ThinkPad Women's Microfiber Tote	22P8855	
ThinkPad Women's Leather Trim Tote	22P8856	
ThinkPad Convertible Carrying Case	22P8860	
ThinkPad Women's Executive Leather Tote	22P8857	
Women's Executive Red Leather Tote	22P8858	

Up to 15.4" widescreen models:

Lenovo Carrying Case - Messenger Max	41U5253	ann 05/01/07
Lenovo Carr Case - Performance Backpack	41U5254	ann 05/01/07
Lenovo Standard Case	45K1697	ann 11/25/08
Lenovo Standard Backpack	45K1698	ann 11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann 02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann 08/12/08
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Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann 09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann 09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann 04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann 09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann 09/17/08

Monitor Accessories⁴⁶

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
ThinkPad Convertible Monitor Stand	40Y7620	ann 01/05/06
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.More information at www.lenovo.com/support/monitoraccessoriesOther accessories at www.lenovo.com/accessoriesAccessories Guide pdf at www.lenovo.com/accessoriesguide

Type-model	Low Voltage proc-esssor	GHz	Memory	Display	Disk SATA GB ^s rpm	Optical in UltraBase	X6 Tablet UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Finger Bat-tery reader cells	Workhorse (W) Global (G) Avail date
7762-54U	L7500	1.60	1GB	12.1" XGA	80GB 5400			* Intel 4965AG ³²		Fing 8	Business32 W G Jun 07
7762-95U	L7500	1.60	1GB	12.1" SXGA+ SV	80GB 5400			* Intel 4965AG		Fing 8	Business32 W G Jun 07
7762-D6U	L7500	1.60	2GB	12.1" XGA Touch	160G 5400	DVD±RW	UltraBase	* Intel 11n ²⁸		Fing 8	Ultimate 32 Jun 07
7762-B6U	L7500	1.60	1GB	12.1" XGA Touch	120G 5400			* Intel 4965AG		Fing 8	Business32 W G Jun 07
7762-58U	L7500	1.60	2GB	12.1" XGA	120G 5400			* Intel 4965AG		Fing 8	Ultimate 32 W G Jun 07
7762-44U	L7500	1.60	2GB	12.1" XGA	120G 5400	Combo	UltraBase			Fing 8	XP Tablet TAA Jun 07
7762-H7U	L7700	1.80	2GB	12.1" XGA	100G 7200			* Intel 11a/b/g ³²		Fing 8	Business32 W Oct 07
7762-98U	L7500	1.60	2GB	12.1" SXGA+ SV	160G 5400			* Intel 4965AG	1G Turbo	Fing 8	Business32 W Oct 07
7762-BEU	L7500	1.60	2GB	12.1" XGA Touch	160G 7200			* Intel 4965AG		Fing 8	Business32 W Oct 07
7762-99U	L7500	1.60	2GB	12.1" SXGA+ SV	120G 5400			* Intel 11a/b/g		Fing 8	XP Tablet TAA Nov 07
7762-63U	L7500	1.60	1GB	12.1" XGA	80GB 5400			* Intel 4965AG	WWAN upg	Fing 8	Business 32 Feb 08
7762-9CU	L7500	1.60	2GB	12.1" SXGA+ SV	120G 5400			* Intel 11a/b/g		Fing 8	Business 32 TAA Jun 08
US Govt (TAA) ⁵ Processor	44U/99U/9CU: US Government model (Trade Act Agreement-compliant) Intel® Core™ 2 Duo processor L7500 and L7700 with low voltage, dual-core, Intel 64 Technology, 800MHz system bus, and 4MB shared L2 cache										
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available										
Ultrabay™ Slim EIDE Combo Serial ATA disk	Supports Ultrabay Slim devices in optional or standard ThinkPad X6 Tablet UltraBase <i>Some:</i> DVD-ROM/CD-RW / 24X/24X/24X/8X ²¹ speed / removable from X6 UltraBase <i>Some:</i> DVD burner, Super Multi-Burner (40Y8623), dual-layer, removable from X6 80GB⁸ (5400 rpm), 100GB (7200 rpm), 120GB , or 160GB (5400 or 7200 rpm) / SATA1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional X6 Tablet UltraBase, ThinkPad Shock Mounted Hard Drive, Active Protection System™										
Display	<i>Some:</i> 12.1" (307mm) XGA (1024x768) TFT color, 185 nits, 4:3, 500:1, 170° viewing <i>Some:</i> 12.1" (307mm) SXGA+ (1400x1050) color, 190 nits, 4:3, 500:1, 170° viewing, direct bonding panel (SuperView) for improved outdoor viewability <i>Touch:</i> 12.1" (307mm) XGA (1024x768) TFT color, 4:3, 150 nits, 170° viewing / MultiView (indoor/outdoor), MultiTouch (touchscreen via finger and pen) <i>All:</i> Super Wide Angle FFS / anti-reflective and anti-glare protective coatings / write on screen with standard digitizer pen / pen holder in front base / rotate and swivel hinge in middle bottom of display for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user) / buttons on display bottom (power, lock, reboot, rotation, utility, Esc, NavDial/enter)										
Graphics controller	Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965										
Graphics - external	External VGA monitor support via analog DB-15 connector / no DVI-out support										
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, 18.5mm pitch										
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass										
Dimensions ³	<i>without X6 UltraBase:</i> 4-cell: 10.8" x 9.6" x 1.1-1.3"; 274mm x 244mm x 27.4-33.1mm <i>without X6 UltraBase:</i> 8-cell: 10.8" x 10.5" x 1.1-1.3"; 274mm x 267mm x 27.4-33.1mm 4-cell: starting at 3.77 lb (1.71kg); 8-cell: starting at 4.25 lb (1.93kg)										
Weight ²	Color: black; All: magnesium alloy										
Case material	Li-Ion 8-cell;										
Battery - type	supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional X6 Tablet UltraBase (for 2 batteries)										
Battery - life ¹⁰	<i>with 4-cell:</i> up to 3.0 hr; <i>with 8-cell:</i> up to 7.0 hr; <i>8-cell and Ultrabay Slim:</i> up to 9.0 hr <i>with 8-cell and optional Extended Life Battery:</i> up to 9.5 hr										
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Carbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)										
Media slice	<i>Some:</i> ThinkPad X6 Tablet UltraBase (see right side)										
Secure Digital slot	One Secure Digital Card slot, supports SD memory cards used in consumer devices										
PC Card	One slot (Type I, Type II), CardBus Plus (34mm ExpressCard via adapter), door										
Ports	Three USB 2.0, DB-15 (external VGA monitor), RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)										
Mini PCI Express	Two Mini PCI Express slots										
Intel 11a/b/g ³²	<i>Some:</i> 11a/b/g wireless ⁴ , Mini PCI Express adapter, Intel PRO/Wireless 3945ABG										
Intel 4965AG ³²	<i>Some:</i> 11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG										
Intel 11n ²⁸	<i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)										
WWAN upg	<i>Some:</i> Wireless WAN upgradable, requires Verizon® EV-DO Rev. A Mini PCIe (43R1818)										
1G Turbo	<i>Some:</i> Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator										
Modem	56K V.92 ⁶ modem in Communications Daughter Card										
Bluetooth™	<i>All except 44U/99U/9CU:</i> Bluetooth 2.0 wireless, USB 2.0 via ICH8M, LED indicator										
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE										
Intel AMT	Intel Active Management Technology (iAMT)										
Audio support	High Definition (HD) Audio, AD1984 codec / mono speaker, 0.5 watt / volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)										
Security	Power-on password, hard disk password, supervisor password, security keyhole										
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant										
Fingerprint reader	<i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip										
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available										

Preloaded operating system²⁰

- *Some:* Microsoft® Windows® Vista® Business Edition (32-bit)
- *Some:* Microsoft Windows Vista Ultimate Edition (32-bit)
- *Some:* Microsoft Windows XP Tablet PC Edition 2005

↔ 2GB Vista D6U/H7U/98U/BEU/9CU: Vista Premium logo

↔ *Other Vista models:* Vista Basic logo

Preloaded applications¹⁴ (all OSes; only some listed)

- Rescue and Recovery™
- Access Connections™
- Client Security Solution™
- ThinkVantage Productivity Center
- ThinkVantage System Update
- Norton Internet Security™
- PC-Doctor™ (diagnostics)
- Fingerprint Software
- Corel VirtualDrive CD/DVD Emulator

Supports ThinkVantage® technologies

ThinkPad X6 Tablet UltraBase

- Provides desktop expansion and cable mgmt for X60/X61 Tablet
- Connects to the bottom of tablet
- Converts tablet to a two-spindle system with optional flat bezel Ultrabay Slim options in right side:
 - ThinkPad Advanced Ultrabay Battery II 3-cell (flat) 43R9250
 - ThinkPad DVD Ultrabay Slim Burner (flat bezel) 41N5643
 - Serial Hard Drive Ultrabay Slim Adapter (flat bezel) 40Y8725
- SATA disks supported (some):
 - 250GB FDE 7200 rpm 43N3410
 - 250GB Disk 5400 rpm 43R8152
 - 320GB Disk 7200 rpm 43N3411

Other features:

- Power button (front)
- Stereo speakers (1 watt)
- Security key lock, security keyhole, and optional security screw
- Serial and parallel ports
- Analog VGA monitor port (no DVI)
- Four USB 2.0 ports
- Gigabit ethernet port (RJ-45)
- Modem port (RJ-11)
- Microphone in and headphone out
- Requires 65- or 90-watt AC adapter
- 1.48 lb; 670g

65-watt (GMA graphics) AC Adapter ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378

See footnotes for important warranty information
 * Intel Centrino® processor technology
 † US model announced May 20, 2008;
 ‡ Intel Centrino with vPro™ technology
 †† previous models on May 31, Oct 30, 2007, Feb 12, 2008
 ††† US models withdrawn effective December 2007 or May 2008
 © Lenovo (DL2-2) June 2008

Type-model	Low Voltage proc-essor	GHz	Memory	Display	Disk SATA GB ³ rpm	Optical in UltraBase	X6 Tablet UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Finger print reader	Bat-tery cells	Vista preload	Workhorse (W) Global (G) GMP (P)	Avail date
7763-54U	L7500	1.60	1GB	12.1" XGA	80GB 5400	Optional	Optional	*Intel 4965AG ³²	None	Fing	8	Business	32 W G P	Jun 07
7763-95U	L7500	1.60	1GB	12.1" SXGA+ SV	80GB 5400	Optional	Optional	*Intel 4965AG	None	Fing	8	Business	32 W G P	Jun 07
7763-B6U	L7500	1.60	1GB	12.1" XGA Touch	120G 5400	Optional	Optional	*Intel 4965AG	None	Fing	8	Business	32 W G P	Jun 07
7763-58U	L7500	1.60	2GB	12.1" XGA	120G 5400	Optional	Optional	*Intel 4965AG	None	Fing	8	Ultimate	32 W G P	Jun 07

• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning	Convertible tablet; one spindle												
Processor	Intel® Core™ 2 Duo processor L7500 with low voltage, dual-core, Intel 64 Technology, EIST ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache												
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available												
Ultrabay™ Slim EIDE DVD±RW Serial ATA disk	Supports Ultrabay Slim devices in optional or standard <i>ThinkPad X6 Tablet UltraBase</i> Option for <i>ThinkPad X6 Tablet UltraBase</i> 80GB³ (5400 rpm), 120GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional <i>X6 Tablet UltraBase</i> , ThinkPad Shock Mounted Hard Drive, Active Protection System™												
Display	<p><i>Some:</i> 12.1" (307mm) XGA (1024x768) TFT color, 185 nits, 4:3, 500:1, 170° viewing</p> <p><i>Some:</i> 12.1" (307mm) SXGA+ (1400x1050) color, 190 nits, 4:3, 500:1, 170° viewing, direct bonding panel (SuperView) for improved outdoor viewability</p> <p><i>Touch:</i> 12.1" (307mm) XGA (1024x768) TFT color, 4:3, 150 nits, 170° viewing / MultiView (indoor/outdoor), MultiTouch (touchscreen via finger and pen)</p> <p><i>All:</i> Super Wide Angle FFS / anti-reflective and anti-glare protective coatings / write on screen with standard digitizer pen / pen holder in front base / rotate and swivel hinge in middle bottom of display for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user) / buttons on display bottom (power, lock, reboot, rotation, utility, Esc, NavDial/enter)</p>												
Graphics controller	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965 Graphics - external External VGA monitor support via analog DB-15 connector / no DVI-out support												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, 18.5mm pitch TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass												
Dimensions ³	<i>without X6 UltraBase:</i> 4-cell: 10.8" x 9.6" x 1.1-1.3"; 274mm x 244mm x 27.4-33.1mm <i>without X6 UltraBase:</i> 8-cell: 10.8" x 10.5" x 1.1-1.3"; 274mm x 267mm x 27.4-33.1mm <i>4-cell:</i> starting at 3.77 lb (1.71kg); <i>8-cell:</i> starting at 4.25 lb (1.93kg)												
Weight ²	Color: black; <i>All:</i> magnesium alloy												
Case material	Li-Ion 8-cell ;												
Battery - type	supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional <i>X6 Tablet UltraBase</i> (for 2 batteries)												
Battery - life ¹⁰	<i>with 4-cell:</i> up to 3.0 hr; <i>with 8-cell:</i> up to 7.0 hr; <i>8-cell and Ultrabay Slim:</i> up to 9.0 hr <i>with 8-cell and optional Extended Life Battery:</i> up to 9.5 hr												
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)												
Media slice	<i>Option:</i> ThinkPad X6 Tablet UltraBase (see right side)												
Secure Digital slot	One Secure Digital Card slot, supports SD memory cards used in consumer devices												
PC Card slot	One Type I or one Type II, CardBus Plus (34mm ExpressCard via adapter), door												
Ports	Three USB 2.0, DB-15 (external VGA monitor), -RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)												
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios												
Mini PCI Express	Two Mini PCI Express slots / only 802.11 wireless is customer upgradable												
Intel 4965AG ³²	11a/b/g wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AG												
WWAN	None												
Turbo 1G	None												
Modem	56K V.92 ⁶ modem in Communications Daughter Card												
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 via ICH8M, LED indicator												
Ethernet	Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE												
Intel AMT	Intel Active Management Technology (IAMT)												
Audio support	High Definition (HD) Audio, AD1984 codec / mono speaker 0.5 watt / volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)												
Security	Power-on password, hard disk password, supervisor password, security keyhole												
Security chip	Trusted Platform Module , Atmel chip, TCG 1.2-compliant												
Fingerprint reader	Fingerprint reader on palm rest , swipe sensor, supports the security chip												
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available												
ThinkPlus™.22	4-year LOR ²⁴ 9x5 NBD		12X5630		Post-warranty annual maintenance agreements at								
ThinkPlus	5-year LOR 9x5 NBD		43R2162		lenovo.com/thinkplus/warranty								
<p>Preloaded operating system²⁰</p> <ul style="list-style-type: none"> - <i>Some:</i> Microsoft® Windows® Vista® Business Edition (32-bit) - <i>Some:</i> Microsoft Windows Vista Ultimate Edition (32-bit) <p>◇ <i>Vista models:</i> Vista Basic logo</p> <p>Preloaded applications¹⁴ (all OSes; only some listed)</p> <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • Norton Internet Security™ (90 days of virus definitions) • Diskeeper® Home • ThinkPad Utilities • PC-Doctor™ (diagnostics) • Fingerprint Software • Corel® VirtualDrive CD/DVD Emulator 													
Supports ThinkVantage® technologies													
<p>ThinkPad X6 Tablet UltraBase</p> <ul style="list-style-type: none"> • Provides desktop expansion and cable mgmt for X60/X61 Tablet • Connects to the bottom of tablet • Converts tablet to a two-spindle system with optional flat bezel Ultrabay Slim options in right side: <ul style="list-style-type: none"> - ThinkPad Advanced Ultrabay Battery II 3-cell (flat) 43R9250 - ThinkPad DVD Ultrabay Slim Burner (flat bezel) 41N5643 - Serial Hard Drive Ultrabay Slim Adapter (flat bezel) 40Y8725 <p>SATA disks supported (some):</p> <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 250GB Disk 5400 rpm 43R8152 • 320GB Disk 7200 rpm 43N3411 <p>Other features:</p> <ul style="list-style-type: none"> • Power button (front) • Stereo speakers (1 watt) • Security key lock, security keyhole, and optional security screw • Serial and parallel ports • Analog VGA monitor port (no DVI) • Four USB 2.0 ports • Gigabit ethernet port (RJ-45) • Modem port (RJ-11) • Microphone in and headphone out • Requires 65- or 90-watt AC adapter • 1.48 lb; 670g 													
<p>65-watt (GMA graphics) AC Adapter ENERGY STAR® 4.0-compliant</p> <p>RoHS-compliant</p> <p>International Warranty Service¹⁷</p> <p>24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>													

See footnotes for important warranty information
US models announced May 31, 2007

* Intel Centrino with vPro™ technology

ThinkPad® X61 Tablet (7767) - TopSeller (3-year)

Personal Systems Reference (PSREF)

Type-model	Low Voltage proc-processor	GHz	Memory	Display	Disk SATA GB ⁸ rpm	Optical in UltraBase	X6 Tablet UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Finger Bat-tery reader/cells	Workhorse (W) Vista Global (G) preload	Avail date
7767-59U	L7500 LV	1.60	1GB	12.1" XGA	120G 5400			*Intel 11a/b/g ³²		Fing 4	Business 32	Jun 07
7767-5AU	L7500 LV	1.60	1GB	12.1" XGA	120G 5400	DVD±RW	UltraBase	*Intel 11n ²⁸	1G Turbo	Fing 4	Business 32	Jun 07
7767-96U	L7500 LV	1.60	2GB	12.1" SXGA+ SV	120G 5400	DVD±RW	UltraBase	*Intel 11a/b/g	1G Turbo	Fing 8	Business 32	Jun 07
7767-B7U	L7500 LV	1.60	2GB	12.1" XGA Touch	120G 5400			*Intel 11n	1G Turbo	Fing 8	Business 32	Jun 07
7767-C3U	L7500 LV	1.60	1GB	12.1" XGA Touch	100G 7200	DVD±RW	UltraBase	*Intel 11a/b/g	Verizon	Fing 8	Ultimate 32 W	Jul 07
7767-C4U	L7500 LV	1.60	1GB	12.1" XGA Touch	120G 5400	DVD±RW	UltraBase	*Intel 11n	AT&T	Fing 8	Ultimate 32 W	Jul 07
7767-01U	L7500 LV	1.60	1GB	12.1" XGA	120G 5400			*Intel 11a/b/g		Fing 4	XP Tablet	Aug 07
7767-02U	L7500 LV	1.60	1GB	12.1" XGA	120G 5400	DVD±RW	UltraBase	*Intel 11a/b/g		Fing 8	XP Tablet	Aug 07
7767-5CU	L7500 LV	1.60	2GB	12.1" XGA	160G 7200	DVD±RW	UltraBase	*Intel 11n	1G Turbo	Fing 8	Business 32	Sep 07

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

Positioning Processor	Convertible tablet; one spindle Intel® Core™ 2 Duo processor L7500 with low voltage, dual-core , Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, EDB, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache	Preloaded operating system ²⁰ - <i>Some:</i> Microsoft® Windows® Vista® Business Edition (32-bit) - <i>Some:</i> Microsoft Windows Vista Ultimate Edition (32-bit) - <i>Some:</i> Microsoft Windows XP Tablet PC Edition 2005 with Vista COA ◇ Cxx: Vista Basic logo ◇ Other Vista: Vista Premium logo
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	
Ultrabay™ Slim EIDE DVD±RW Serial ATA disk	Supports Ultrabay Slim devices in optional or standard <i>ThinkPad X6 Tablet UltraBase</i> <i>Some:</i> DVD burner, Super Multi-Burner (40Y8623), dual-layer, removable from X6 100GB ⁹ (7200 rpm), 120GB (5400 rpm), or 160GB (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional <i>X6 Tablet UltraBase</i> , <i>ThinkPad Shock Mounted Hard Drive</i> , <i>Active Protection System</i> ™	Preloaded applications ¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • Norton Internet Security (90 days of virus definitions) • PC-Doctor™ (diagnostics) • Fingerprint Software • Microsoft Office 2007 Trial (60-day) • Corel® VirtualDrive CD/DVD Emulator
Display	<i>Some:</i> 12.1" (307mm) XGA (1024x768) TFT color, 155 nits, 4:3, 500:1, 170° viewing <i>Some:</i> 12.1" (307mm) SXGA+ (1400x1050) color, 190 nits, 4:3, 500:1, 170° viewing, direct bonding panel (SuperView) for improved outdoor viewability <i>Touch:</i> 12.1" (307mm) XGA (1024x768) TFT color, 4:3, 150 nits, 170° viewing / MultiView (indoor/outdoor), MultiTouch (touchscreen via finger and pen) <i>All:</i> Super Wide Angle FFS / anti-reflective and anti-glare protective coatings / write on screen with standard digitizer pen / pen holder in front base / rotate and swivel hinge in middle bottom of display for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user) / buttons on display bottom (power, lock, reboot, rotation, utility, Esc, NavDial/enter)	
Graphics controller Graphics - external	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965 External VGA monitor support via analog DB-15 connector / no DVI-out support	
Keyboard TrackPoint®	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, 18.5mm pitch TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	
Dimensions ³	<i>without X6 UltraBase:</i> 4-cell: 10.8" x 9.6" x 1.1-1.3"; 274mm x 244mm x 27.4-33.1mm <i>without X6 UltraBase:</i> 8-cell: 10.8" x 10.5" x 1.1-1.3"; 274mm x 267mm x 27.4-33.1mm 4-cell: starting at 3.77 lb (1.71kg); 8-cell: starting at 4.25 lb (1.93kg)	Supports ThinkVantage® technologies
Weight ² Case material Battery - type	<i>Color:</i> black; <i>All:</i> magnesium alloy Li-Ion 4-cell or 8-cell ; supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional <i>X6 Tablet UltraBase</i> (for 2 batteries) <i>with 4-cell:</i> up to 3.0 hr; <i>with 8-cell:</i> up to 7.0 hr; <i>8-cell and Ultrabay Slim:</i> up to 9.0 hr <i>with 8-cell and optional Extended Life Battery:</i> up to 9.5 hr	ThinkPad X6 Tablet UltraBase • Provides desktop expansion and cable mgmt for X60/X61 Tablet • Connects to the bottom of tablet • Converts tablet to a two-spindle system with optional flat bezel Ultrabay Slim options in right side: – ThinkPad Advanced Ultrabay Battery II 3-cell (flat) 43R9250 – ThinkPad DVD Ultrabay Slim Burner (flat bezel) 41N5643 – Serial Hard Drive Ultrabay Slim Adapter (flat bezel) 40Y8725 SATA disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411
Battery - life ¹⁰		
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)	
Media slice Secure Digital slot PC Card Ports	<i>Some:</i> ThinkPad X6 Tablet UltraBase (see right side) One Secure Digital Card slot, supports SD memory cards used in consumer devices One slot (Type I, Type II), CardBus Plus (34mm ExpressCard via adapter), door Three USB 2.0, DB-15 (external VGA monitor), -RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Wireless antenna Mini PCI Express Intel 11a/b/g ³² Intel 11n ²⁸ Verizon ¹⁶ AT&T ²³ 1G Turbo Modem Bluetooth™ Ethernet Intel AMT Audio support	UltraConnect™ II Antenna / on-off switch for all wireless radios Two Mini PCI Express slots / only 802.11 wireless is customer upgradable <i>Some:</i> 11a/b/g wireless ⁴ , Mini PCI Express adapter, Intel PRO/Wireless 3945ABG <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron) <i>Some:</i> Wireless WAN, Sierra Wireless 1xEV-DO Network Adapter, Mini PCIe adapter, EV-DO Rev. A, service contract required with Verizon® Wireless <i>Some:</i> Wireless WAN, GPRS/EDGE/UMTS/HSDPA support, Mini PCIe adapter and SIM, service contract required with AT&T® <i>Some:</i> Intel Turbo Memory, Mini PCIe adapter, 1GB flash, disk-cache accelerator 56K V.92 ⁵ modem in Communications Daughter Card Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE Intel Active Management Technology (AMT) High Definition (HD) Audio, AD1984 codec / mono speaker, 0.5 watt / volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)	Other features: • Power button (front) • Stereo speakers (1 watt) • Security key lock, security keyhole, and optional security screw • Serial and parallel ports • Analog VGA monitor port (no DVI) • Four USB 2.0 ports • Gigabit ethernet port (RJ-45) • Modem port (RJ-11) • Microphone in and headphone out • Requires 65- or 90-watt AC adapter • 1.48 lb; 670g
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module , Atmel chip, TCG 1.2-compliant Fingerprint reader on palm rest , swipe sensor, supports the security chip	65-watt (GMA graphics) AC Adapter ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service, service upgrades ²² available	

See footnotes for important warranty information
¹² US model announced September 4, 2007;
 previous models on May 31, June 12, or August 14, 2007

* Intel Centrino® processor technology
 * Intel Centrino with vPro™ technology

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 (DL2-3) September 2007

ThinkPad® X61 Tablet (Education) - EasyServ

Personal Systems Reference (PSREF)

Type-model	Low Voltage proc- essor	GHz	Memory	Display	Disk SATA GB ⁸ rpm	Optical in UltraBase	X6 Tablet UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Vista preload	Educ pre- load	Limited warranty ¹²	Workhorse (W) Global (G)	Avail date
7762-B5U	L7500 LV	1.60	1GB	12.1" XGA <i>Touch</i>	120G 5400	Optional	Optional	11a/b/g ³²	None	Business 32	HE	EasyServ	W	Jun 07
7762-01U	L7500 LV	1.60	1GB	12.1" XGA	100G 7200	Optional	Optional	11a/b/g	None	Business 32	HE	EasyServ		July 07
7762-02U	L7500 LV	1.60	1GB	12.1" XGA <i>Touch</i>	100G 7200	Optional	Optional	11a/b/g	None	Business 32	K12	EasyServ		July 07
<p>• These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.</p>														
Positioning Processor	<p>Convertible tablet; one spindle Intel® Core™ 2 Duo processor L7500 with low voltage, dual-core, Intel 64 Technology, Enhanced Intel SpeedStep® technology¹, Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache</p>										<p>Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ⇨ Vista Basic logo</p>			
Memory	<p>1GB or 2GB std / 4GB max⁷ / 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</p>										<p>Preloaded applications¹⁴ (only some listed) • 01U/02U: Microsoft Office OneNote® 2007 (and CD) • Some (K12): K-12 education software - VitalSource Library School Edition - Adobe® Instructor Resource Center - Adobe Digital School Collection - Photoshop Elements 5 (and CD) - Premier Elements 3 (and DVD) - Acrobat 8 Professional (and CD) - Contribute 4 (and CD) • (HE): Higher education software - VitalSource Library College Edition - Adobe Instructor Resource Center - Adobe Photoshop Elements 5 (and CD) - Adobe Premier Elements 3 (and DVD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • Norton Internet Security • Corel® VirtualDrive CD/DVD Emulator</p>			
Ultrabay™ Slim EIDE DVD±RW Serial ATA disk	<p>Supports Ultrabay Slim devices in optional or standard <i>ThinkPad X6 Tablet UltraBase</i> 120GB⁸ (5400 rpm) or 100GB (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional <i>X6 Tablet UltraBase</i>, <i>ThinkPad Shock Mounted Hard Drive</i>, <i>Active Protection System™</i></p>													
Display	<p>Some: 12.1" (307mm) XGA (1024x768) TFT color, 185 nits, 4:3, 500:1, 170° viewing <i>Touch</i>: 12.1" (307mm) XGA (1024x768) TFT color, 4:3, 150 nits, 170° viewing / MultiView (indoor/outdoor), MultiTouch (touchscreen via finger and pen) Super Wide Angle FFS / anti-reflective and anti-glare protective coatings / write on screen with standard digitizer pen / pen holder in front base / rotate and swivel hinge in middle bottom of display for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user) / buttons on display bottom (power, lock, reboot, rotation, utility, Esc, NavDial/enter)</p>													
Graphics controller Graphics - external	<p>Intel Graphics Media Accelerator X3100 (GMA X3100), integrated in GM965 External VGA monitor support via analog DB-15 connector / no DVI-out support</p>													
Keyboard TrackPoint®	<p>89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, 18.5mm pitch TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass</p>													
Dimensions ³	<p>without X6 UltraBase: 4-cell: 10.8" x 9.6" x 1.1-1.3"; 274mm x 244mm x 27.4-33.1mm without X6 UltraBase: 8-cell: 10.8" x 10.5" x 1.1-1.3"; 274mm x 267mm x 27.4-33.1mm 4-cell: starting at 3.77 lb (1.71kg); 8-cell: starting at 4.25 lb (1.93kg)</p>													
Weight ² Case material Battery - type	<p>Color: black; All: magnesium alloy Li-Ion 8-cell; supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional <i>X6 Tablet UltraBase</i> (for 2 batteries) with 4-cell: up to 3.0 hr; with 8-cell: up to 7.0 hr; 8-cell and Ultrabay Slim: up to 9.0 hr with 8-cell and optional <i>Extended Life Battery</i>: up to 9.5 hr</p>													
Battery - life ¹⁰											<p>Supports ThinkVantage® technologies</p>			
Chipset	<p>Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)</p>													
Media slice Secure Digital slot PC Card Ports	<p>Option: ThinkPad X6 Tablet UltraBase (see right side) One Secure Digital Card slot, supports SD memory cards used in consumer devices One slot (Type I, Type II), CardBus Plus (34mm ExpressCard via adapter), door Three USB 2.0, DB-15 (external VGA monitor), -RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)</p>													
Wireless antenna Mini PCI Express 11a/b/g ³² WWAN Turbo 1G Modem Bluetooth™ Ethernet Intel AMT Audio support	<p>UltraConnect™ II Antenna / on-off switch for all wireless radios Two Mini PCI Express slots / only 802.11 wireless is customer upgradable 11a/b/g wireless⁴, ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX None None 56K V.92⁶ modem in Communications Daughter Card Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE Intel Active Management Technology (iAMT) High Definition (HD) Audio, AD1984 codec / mono speaker, 0.5 watt / volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)</p>													
Security Security chip Fingerprint reader	<p>Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, Atmel chip, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip</p>													
Limited warranty ¹²	<p>3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available</p>													
512 MB PC2-5300 DDR2 SODIMM	40Y7733	ThinkPad X6 Tablet UltraBase		41U3120										
1GB PC2-5300 DDR2 SODIMM	40Y7734	ThinkPad X60 Tablet Digitizer Pen		41U3143										
2GB PC2-5300 DDR2 SODIMM	40Y7735	ThinkPad X60 Tether (3-pack)		41U4820										
USB 2.0 Lenovo Webcam	40Y8519	X60 Tablet Li-Ion Battery 8-cell		40Y8318										
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ThinkPad X60 Extended Life Battery		40Y7005										
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkPad X60 Tablet Sleeve		41U3142										
USB 2.0 Super Multi-Burner Drive	41N5565	ThinkPad Ultraportable Case		41U5062										
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkPlus™ ²² 2-year LOR 9x5 NBD		41C9175										
Other accessories on O-X60-T sheet	<p>Other accessories at lenovo.com/accessories</p>													
										<p>Other features: • Power button (front) • Stereo speakers (1 watt) • Security key lock, security keyhole, and optional security screw • Serial and parallel ports • Analog VGA monitor port (no DVI) • Four USB 2.0 ports • Gigabit ethernet port (RJ-45) • Modem port (RJ-11) • Microphone in and headphone out • Requires 65- or 90-watt AC adapter • 1.48 lb; 670g</p>				
										<p>65-watt (GMA graphics) AC Adapter ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p>				

See footnotes for important warranty information

US models announced July 16, 2007; previous model on May 31, 2007

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ThinkPad® X61 Tablet (Education) - Onsite

Type-model	Low Voltage proc-essor	GHz	Memory	Display	Disk SATA GB ⁶	rpm	Optical in UltraBase	X6 Tablet UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Vista preload	Educ pre-load	Limited warranty ¹²	Workhorse (W) Global (G) Avail date
7763-B5U	L7500 LV	1.60	1GB	12.1" XGA	120G	5400	Optional	Optional	11a/b/g ³²	None	Business 32	HE	Onsite	W Jun 07
7763-01U	L7500 LV	1.60	1GB	12.1" XGA	100G	7200	Optional	Optional	11a/b/g	None	Business 32	HE	Onsite	July 07
7763-02U	L7500 LV	1.60	1GB	12.1" XGA	100G	7200	Optional	Optional	11a/b/g	None	Business 32	K12	Onsite	July 07

• **These models have a limited onsite service²⁴ 3-year limited warranty**
 These educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	Convertible tablet; one spindle Intel® Core™ 2 Duo processor L7500 with low voltage, dual-core , Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache	Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) - Vista Basic logo
Memory	1GB or 2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	Preloaded applications¹⁴ (only some listed) • <i>01U/02U:</i> Microsoft Office OneNote® 2007 (and CD) • <i>Some (K12):</i> K-12 education software - VitalSource Library School Edition - Adobe® Instructor Resource Center - Adobe Digital School Collection - Photoshop Elements 5 (and CD) - Premier Elements 3 (and DVD) - Acrobat 8 Professional - Contribute 4 • <i>(HE):</i> Higher education software - VitalSource Library College Edition - Adobe Instructor Resource Center - Adobe Photoshop Elements 5 (and CD) - Adobe Premier Elements 3 (and DVD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • Norton Internet Security™ • Corel® VirtualDrive CD/DVD Emulator
Ultrabay™ Slim EIDE DVD±RW Serial ATA disk	Supports Ultrabay Slim devices in optional or standard <i>ThinkPad X6 Tablet UltraBase</i> Option for <i>ThinkPad X6 Tablet UltraBase</i> 120GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, supports 2nd disk in std or optional <i>X6 Tablet UltraBase</i> , ThinkPad Shock Mounted Hard Drive, Active Protection System™	
Display	<i>Some:</i> 12.1" (307mm) XGA (1024x768) TFT color, 185 nits, 4:3, 500:1, 170° viewing <i>Touch:</i> 12.1" (307mm) XGA (1024x768) TFT color, 4:3, 150 nits, 170° viewing / MultiView (indoor/outdoor), MultiTouch (touchscreen via finger and pen) <i>All:</i> Super Wide Angle FFS / anti-reflective and anti-glare protective coatings / write on screen with standard digitizer pen / pen holder in front base / rotate and swivel hinge in middle bottom of display for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user) / buttons on display bottom (power, lock, reboot, rotation, utility, Esc, NavDial/enter)	
Graphics controller Graphics - external	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GM965 External VGA monitor support via analog DB-15 connector / no DVI-out support	
Keyboard TrackPoint®	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, 18.5mm pitch TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	
Dimensions ³	<i>without X6 UltraBase:</i> 4-cell: 10.8" x 9.6" x 1.1-1.3"; 274mm x 244mm x 27.4-33.1mm <i>without X6 UltraBase:</i> 8-cell: 10.8" x 10.5" x 1.1-1.3"; 274mm x 267mm x 27.4-33.1mm 4-cell: starting at 3.77 lb (1.71kg); 8-cell: starting at 4.25 lb (1.93kg) <i>Color:</i> black; <i>All:</i> magnesium alloy	
Weight ² Case material Battery - type	Li-Ion 8-cell ; supports optional Extended Life Battery on base (for two batteries); supports optional Ultrabay Slim battery in optional <i>X6 Tablet UltraBase</i> (for 2 batteries) <i>with 4-cell:</i> up to 3.0 hr; <i>with 8-cell:</i> up to 7.0 hr; <i>8-cell and Ultrabay Slim:</i> up to 9.0 hr <i>with 8-cell and optional Extended Life Battery:</i> up to 9.5 hr	
Battery - life ¹⁰		Supports ThinkVantage® technologies
Chipset	Mobile Intel GM965 Express Chipset (Graphics Memory Controller Hub); ICH8M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, ATA-100 EIDE, PCI Express® x1, PCI bus, USB, LPC bus, [Bluetooth], [fingerprint]) / PCI bus (Ricoh® R5C847 Cardbus/1394/Multicard) / LPC bus (PC87385 Super I/O, Atmel® 97SC3203 TPM)	ThinkPad X6 Tablet UltraBase • Provides desktop expansion and cable mgmt for X60/X61 Tablet • Connects to the bottom of tablet • Converts tablet to a two-spindle system with optional flat bezel Ultrabay Slim options in right side: - ThinkPad Advanced Ultrabay Battery II 3-cell (flat) 43R9250 - ThinkPad DVD Ultrabay Slim Burner (flat bezel) 41N5643 - Serial Hard Drive Ultrabay Slim Adapter (flat bezel) 40Y8725 SATA disks supported (some): • 250GB FDE 7200 rpm 43N3410
Media slice Secure Digital slot PC Card slot Ports	<i>Option:</i> ThinkPad X6 Tablet UltraBase (see right side) One Secure Digital Card slot, supports SD memory cards used in consumer devices One Type I or one Type II, CardBus Plus (34mm ExpressCard via adapter), door Three USB 2.0, DB-15 (external VGA monitor), -RJ-11 (modem), RJ-45 (ethernet), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
Wireless antenna Mini PCI Express 11a/b/g ³² WWAN Turbo 1G Modem Bluetooth™ Ethernet Intel AMT Audio support	UltraConnect™ II Antenna / on-off switch for all wireless radios Two Mini PCI Express slots / only 802.11 wireless is customer upgradable 11a/b/g wireless ⁴ , ThinkPad 11a/b/g Mini PCIe Adapter, Atheros AR5006EX None None 56K V.92 ⁶ modem in Communications Daughter Card Bluetooth 2.0 wireless, USB 2.0 interface via ICH8M, LED indicator Gigabit ethernet, Intel 82566MM Nineveh (PHY), PCIe x1 (GLCI), PXE Intel Active Management Technology (iAMT) High Definition (HD) Audio, AD1984 codec / mono speaker, 0.5 watt / volume up, down, mute buttons / internal microphone, mic input jack (pink), headphone jack (green)	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module , Atmel chip, TCG 1.2-compliant Fingerprint reader on palm rest , swipe sensor, supports the security chip	
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ²⁴	

1GB PC2-5300 DDR2 SODIMM	40Y7734	ThinkPad X6 Tablet UltraBase	41U3120
2GB PC2-5300 DDR2 SODIMM	40Y7735	ThinkPad X60 Tablet Digitizer Pen	41U3143
USB 2.0 Lenovo Multimedia Headset	40Y8518	ThinkPad X60 Tether (3-pack)	41U4820
USB 2.0 Security Memory Key 4GB	41U5120	X60 Tablet Li-ion Battery 8-cell	40Y8318
USB 2.0 Super Multi-Burner Drive	41N5565	ThinkPad X60 Extended Life Battery	40Y7005
320GB Disk SATA 1.5Gb/s (7200 rpm)	43N3411	ThinkPad X60 Tablet Sleeve	41U3142
TrackPoint Cap Collection	73P2698	ThinkPad Ultraportable Case	41U5062
Other accessories on O-X60-T sheet		Other accessories at lenovo.com/accessories	

65-watt (GMA graphics) AC Adapter ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378

See footnotes for important warranty information

US models announced July 16, 2007; previous model on May 31, 2007

Partial list of accessories supported on:

- ThinkPad X60 Tablet originally announced on Nov 14, 2006
- ThinkPad X61 Tablet originally announced on May 31, 2007

Memory

512MB PC2-5300 DDR2 SODIMM	40Y7733	ann 01/05/06
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	ann 03/25/08
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann 01/05/06
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	ann 03/25/08
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann 11/28/06

Ultrabay Slim 9.5mm

None (Ultrabay Slim on optional *ThinkPad X6 Tablet UltraBase*)

Ultrabay Enhanced 12.7mm

None

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann 03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann 10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann 01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann 01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann 08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann 01/20/09

⁴¹ Can be used as the main disk or with *ThinkPad Serial ATA Hard Drive Ultrabay Slim Adapter 40Y8725* in the optional *ThinkPad X6 Tablet Ultrabase 41U3120*.

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ann 08/26/08
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 Security Memory Key 2GB	41U5119	ann 07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann 07/17/07
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 Portable Diskette Drive	05K9276	ann 06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann 01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann 09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07

Wireless WAN (Mini PCI Express)

Only 7762-54U and 7762-63U models:
Verizon WWAN EV-DO Rev. A Mini PCIe 43R1818 ann 03/04/08

ThinkPad Expansion

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann 02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann 09/20/05
ThinkPad X6 Tablet UltraBase	41U3120	ann 11/14/06

Keyboard

TrackPoint Cap Collection	73P2698	ann 12/16/03
USB Numeric Keypad	33L3225	ann 05/01/00
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04
USB Keyboard with UltraNav	31P8950	ann 01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann 04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann 02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann 05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann 08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann 06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann 11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann 01/22/08
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann 12/07/04

Security

Kensington® Cable Lock from Lenovo	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
PC Card Gemplus Smart Card Reader	41N3004	ann 12/13/05

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann 06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06

Batteries

X60 Tablet Li-Ion 4-cell	40Y8314	ann 11/14/06
X60 Tablet Li-Ion 8-cell	40Y8318	ann 11/14/06
X60 Extended Life Battery	40Y7005	ann 01/05/06
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann 09/20/05

⁴⁴ Requires the *ThinkPad 90W AC Adapter 40Y7659* (adapter provided with some systems).

ThinkPad 65W AC Adapter	40Y7696	ann 09/20/05
ThinkPad 90W AC Adapter	40Y7659	ann 09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460	ann 11/27/07

Tablet

ThinkPad X60 Tablet Digitizer Pen	41U3143	ann 11/14/06
ThinkPad X60 Tether (3-pack)	41U4820	ann 11/14/06

Carrying Cases

ThinkPad X60 Tablet Sleeve	41U3142	ann 11/14/06
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Up to 13.3" widescreen models:

ThinkPad Ultraportable Case	41U5062	ann 05/13/08
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Up to 14.1" widescreen models:

ThinkPad Expander Case	43R9118	ann 06/24/08
ThinkPad Women's Microfiber Tote	45K1697	ann 11/25/08
ThinkPad Convertible Carrying Case	22P8860	
ThinkPad Women's Executive Leather Tote	22P8857	
Women's Executive Red Leather Tote	22P8858	

Up to 15.4" widescreen models:

Lenovo Carrying Case - Messenger Max	41U5253	ann 05/01/07
Lenovo Carr Case - Performance Backpack	41U5254	ann 05/01/07
Lenovo Standard Case	45K1697	ann 11/25/08
Lenovo Standard Backpack	45K1698	ann 11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann 02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann 08/12/08
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Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann 09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann 09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann 04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann 09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann 09/17/08

Monitor Accessories⁴⁶

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann 01/05/06
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43R1528	ann 01/31/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 01/31/07
Microsoft Office 2007 Professional, English	43R1531	ann 01/31/07

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad®



Lenovo ThinkPad X200



Lenovo ThinkPad X200
with 9-cell Battery



Lenovo ThinkPad X200



Lenovo ThinkPad X200
with optional X200 UltraBase,
DVD Burner, and 9-cell Battery



Lenovo ThinkPad X200



Lenovo ThinkPad X200
with optional X200 UltraBase,
DVD Burner, and 9-cell Battery

ThinkPad® X200 (7454) - TopSeller

Proc- Type-model	essor GHz	Memory	Wide- screen display	Cam- era	Disk SATA GB ⁸	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Bat- tery Intel AMT	Pre- load	Avail date
7454-2GU	P8600	2.40	2GB	12.1" WXGA	160GB 5400			Intel 5100 ²⁸			Fing 4	XP Pro	Aug 08	
7454-2HU	P8600	2.40	2GB	12.1" WXGA	160GB 5400	DVD±RW	UltraBase	Intel 5100			Fing 6	XP Pro	Aug 08	
7454-2JU	P8600	2.40	2GB	12.1" WXGA	160GB 7200	DVD±RW	UltraBase	Intel 5300 ²⁸	WWAN upg	2G Turbo	Fing 6	Bus 32	Aug 08	
7454-2NU	P8400	2.26	2GB	12.1" WXGA	160GB 5400			Intel 5100	AT&T ²³		Fing 4	Bus 32	Aug 08	
7454-2PU	P8400	2.26	2GB	12.1" WXGA	160GB 7200	DVD±RW	UltraBase	Intel 5100	AT&T		Fing 6	Bus 32	Aug 08	
7454-2QU	P8600	2.40	2GB	12.1" WXGA	160GB 7200	DVD±RW	UltraBase	Intel 5100	AT&T	2G Turbo	Fing 6	Bus 32	Aug 08	
7454-2ZU	P8600	2.40	2GB	12.1" WXGA	160GB 7200	DVD±RW	UltraBase	Intel 5100	AT&T		Fing 6	XP Pro	Sep 08	
7454-95U	P8600	2.40	2GB	12.1" WXGA	160GB 5400			Intel 5100			Fing 4	XP Pro	Sep 08	
7454-96U	P8600	2.40	2GB	12.1" WXGA	160GB 7200	DVD±RW	UltraBase	Intel 5300	WWAN upg		Fing 6	XP Pro	Sep 08	
7454-9FU	P8600	2.40	2GB	12.1" WXGA	160GB 5400			WiMAX	WWAN upg		Fing 4	AMT Bus 32	Jan 09	
7454-9GU	P8600	2.40	3GB	12.1" WXGA	128GB SSD	DVD±RW	UltraBase	Intel 5100	WWAN upg		Fing 6	AMT XP Pro	Jan 09	
<p>• These small and medium business (SMB) models are part of the US TopSeller™ Program</p>														
Positioning	An ultraportable for the executive on the move; one spindle										Preloaded operating system ²⁰			
Processor	Intel® Core™ 2 Duo processor P8400 or P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache										- Some: Microsoft® Windows® XP Professional with Vista® COA			
Memory	2GB or 3GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										- Some: Microsoft Windows Vista Business Edition (32-bit) ⇨ Vista Premium logo			
Diskette drive	None (use optional USB-based diskette drive)										Preloaded applications ¹⁴ (all OSes; only some listed)			
SATA DVD±RW	Some: DVD burner (43N3214), SATA 1.5Gb/s, removable from X200 UltraBase										• Rescue and Recovery™			
Ultrabay Slim	Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781)										• Access Connections™			
SATA disk	Some: 128GB ⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high										• Client Security Solution™			
	Some: 160GB ⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, Active Protection System™										• ThinkVantage System Update			
	All: removable, upgradable, Shock Mounted Hard Drive, supports second disk in optional or std X200 UltraBase										• McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions)			
Widescreen display	12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 250:1 contrast ratio										• PC-Doctor™ (diagnostics)			
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus										• Fingerprint Software			
Graphics controller	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45										• Microsoft Office 2007 Trial (60-day)			
Graphics - external	External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; Maximum external resolution: 2048x1536@75Hz										• Roxio® Creator® Business Edition			
Keyboard	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys										• Roxio MyDVD® (DVD±RW)			
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass										Supports ThinkVantage® technologies			
Touch pad	None										ThinkPad X200 UltraBase™			
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										• Provides desktop expansion and cable management for X200 Series			
Dimensions ³	without X200 UltraBase; 4-cell: 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 21-35mm										• Easily connects to the bottom of the X200 Series for traveling			
Weight ²	without X200 UltraBase; 9-cell: 11.6" x 9.2" x 0.8-1.4"; 295mm x 234mm x 21-35mm										• Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side:			
Case color	Black										- CD-RW/DVD-ROM Ultrabay Slim			
Case material	Magnesium alloy										SATA 1.5Gb/s 43N3213			
Battery - type	Lithium Ion 4-cell or 6-cell										- DVD Burner Ultrabay Slim			
Battery - life ¹⁰	4-cell: up to 3.3 hr; 6-cell: up to 6.5 hr; 9-cell: up to 9.8 hr										SATA 1.5Gb/s 43N3214			
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)										- Blu-ray™ Burner Ultrabay Slim			
Media slice	Some: X200 UltraBase media slice (see right side)										SATA 1.5Gb/s 43N3215			
Multicard reader	5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC)										- Serial Hard Drive Ultrabay Slim			
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)										Adapter II 43R1980			
Ports	Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)										Disks supported (some):			
Mini PCI Express	Three Mini PCI Express slots										• 250GB FDE 7200 rpm 43N3410			
Intel 5100 ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)										• 320GB Disk 7200 rpm 43N3411			
Intel 5300 ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)										Other features:			
WiMAX	Some: 11a/b/g/n and WiMAX wireless ⁴ , Mini PCIe adap, Intel WiMAX/WiFi Link 5350, 3x3 (450Mbps) WiFi + 1x2 WiMAX (Echo Peak)										• Power button (front)			
WWAN upg	Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)										• Stereo speakers (2 watt)			
AT&T ²³	Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T										• Security key lock, security keyhole, and optional security screw			
2G Turbo	Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator										• Analog DB-15 monitor port			
UWB	None										• DisplayPort (supports single-link DVI-D via cable 45J7915)			
Modem	56K V.92 ⁶ modem										• Four USB 2.0 ports			
Bluetooth™	Bluetooth 2.0 wireless, LED indicator										• Gigabit ethernet port			
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1										• Microphone in and headphone out			
Intel AMT	Some: Intel Active Management Technology (IAMT 4.0)										• Second battery charger			
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / mono speaker, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack										• Requires 65 or 90 watt AC adapter			
Security	Power-on password, hard disk password, supervisor password, security keyhole										• 1.6 lb; 730g			
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant										65-watt (GMA graphics) AC Adapter			
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip										Climate Savers® certified			
Limited warranty ¹²	1-year - EasyServ™ depot repair service / service upgrades ²² available										ENERGY STAR® 4.0-compliant			
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046				X200 Series Li-Ion Battery 9-cell				43R9255					
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406				90W Slim AC/DC Combo Adapter				41N8460					
USB 2.0 Super Multi-Burner Drive	41N5565				ThinkVision® L2440p Wide 24" Monitor				4420HB2					
Other accessories on O-X200 sheet	Other accessories at lenovo.com/accessories													

See footnotes for important warranty information

⇨ Intel Centrino® 2 processor technology

☞ US models announced January 6, 2009; previous models on August 5 or September 2, 2008

☞ US model withdrawn effective September 2008

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(MOC1-1) January 2009

Proc- Type-model	essor GHz	Memory	Wide- screen display	Cam- era	Disk SATA GB ⁹ rpm	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Bat- tery cells	Whorse (W) Pre- Gbl (G) TAA	Avail date
7458-5EU	P8600	2.40	2GB	12.1" WXGA	160GB 5400	Optional	Optional	Intel 5100 ²⁸		Blue	Finger	6	B32 W G Aug 08	
7458-5FU	P8600	2.40	2GB	12.1" WXGA	160GB 7200	Optional	Optional	Intel 5100		Blue	Finger	6	B32 W G Aug 08	
7458-69U	P8600	2.40	2GB	12.1" WXGA	160GB 5400	Optional	Optional	Intel 5300 ²⁸	WWAN upg	2G Turbo	Blue	Finger	6	B32 W G Aug 08
7458-M2U	P8600	2.40	1GB	12.1" WXGA	160GB 5400	Optional	Optional	Intel 5100		Blue	Finger	4	B32 W G Aug 08	
7458-M3U	P8600	2.40	1GB	12.1" WXGA	160GB 5400	Optional	Optional	Intel 5100		Blue	Finger	6	B32 W G Aug 08	
7458-7DU	P8600	2.40	2GB	12.1" WXGA	160GB 7200	Optional	Optional	Intel 5300	WWAN upg	2G Turbo	Blue	Finger	6	B32 Aug 08
✗ 7458-X4U	P8600	2.40	2GB	12.1" WXGA	160GB 5400	Optional	Optional	Intel 5100	WWAN upg		Finger	6	B32 TAA Aug 08	
☞ 7458-5HU	P8600	2.40	4GB	12.1" WXGA	160GB 7200	Optional	Optional	Intel 5300	Verizon ¹⁶		Blue	Finger	9	B32 W Sep 08
☞ 7458-7CU	P8600	2.40	4GB	12.1" WXGA	160GB 7200	Optional	Optional	Intel 5300	AT&T ²³		Blue	Finger	9	B32 W Sep 08
☞ 7458-87U	P8600	2.40	2GB	12.1" WXGA	160GB 7200	Optional	Optional	Intel 5100			Blue	Finger	6	XP G Sep 08
☞ 7458-88U	P8600	2.40	4GB	12.1" WXGA	160GB 7200	Optional	Optional	Intel 5300	AT&T		Blue	Finger	9	XP W Sep 08
☞ 7458-89U	P8600	2.40	2GB	12.1" WXGA	160GB 5400	Optional	Optional	Intel 5300	Verizon		Blue	Finger	9	XP W Sep 08
Positioning US Govt (TAA) ⁵ Processor	An ultraportable for the executive on the move; one spindle X4U: US Government model (Trade Act Agreement-compliant) Intel® Core™ 2 Duo processor P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache													
Memory	1GB, 2GB, or 4GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available													
Diskette drive SATA Combo Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) Option for <i>ThinkPad X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 160GB⁸ (5400 or 7200rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™, supports 2nd disk in optional or std <i>X200 UltraBase</i>													
Widescreen display Camera	12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 250:1 contrast ratio <i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus													
Graphics controller Graphics - external	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45 External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; <i>Maximum external resolution:</i> 2048x1536@75Hz (VGA)													
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None Illuminates the keyboard to improve visibility in low-light conditions													
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 21-35mm <i>without X200 UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 234mm x 21-35mm <i>4-cell:</i> from 2.98 lb (1.35kg); <i>6-cell:</i> from 3.26 lb (1.48kg); <i>9-cell:</i> from 3.61 lb (1.64kg) Black Magnesium alloy Lithium Ion 4-cell, 6-cell, or 9-cell <i>4-cell:</i> up to 3.3 hr; <i>6-cell:</i> up to 6.5 hr; <i>9-cell:</i> up to 9.8 hr													
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)													
Media slice Multicard reader ExpressCard/54 Ports	<i>Option: ThinkPad X200 UltraBase media slice</i> (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)													
Mini PCI Express Intel 5100 ²⁸ Intel 5300 ²⁸ WWAN upg Verizon ¹⁶ AT&T ²³ 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) <i>Some:</i> Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some:</i> Wireless WAN, Qualcomm chipset, Mini PCIe adapter and SIM, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, service contract reqd with Verizon <i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (AMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / mono speaker, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack													
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip													
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available													
2GB PC3-8500 DDR3 SODIMM 320GB Disk SATA 1.5Gb/s (5400 rpm) USB 2.0 Ultra Secure Memory Key 8GB Other accessories on O-X200 sheet	43R1988 43N3403 45J5918	90W Slim AC/DC Combo Adapter ThinkPad Ultraportable Case X200 Series 12W Privacy Filter Other accessories at lenovo.com/accessories	41N8460 41U5062 43R2470											
Preloaded operating system ²⁰ - <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA - <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit) ⇨ Vista Premium logo Preloaded applications ¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition Supports ThinkVantage® technologies ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 Other features: • Power button (front) • Stereo speakers (2 watt) • Security key lock, security keyhole, and optional security screw • Analog DB-15 monitor port • DisplayPort (supports single-link DVI-D via cable 45J7915) • Four USB 2.0 ports • Gigabit ethernet port • Microphone in and headphone out • Second battery charger • Requires 65 or 90 watt AC adapter • 1.6 lb; 730g 65-watt (GMA graphics) AC Adapter Climate Savers® certified ENERGY STAR® 4.0-compliant EPEAT™ Silver rating ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378														

See footnotes for important warranty information

☞ Intel Centrino® 2 with vPro™ technology

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☞ US model announced September 2, 2008; previous models on August 5, 2008

(MOC1-2) January 2009

✗ US model withdrawn effective August 2008

Proc- Type-model	essor GHz	Memory	Wide- screen display	Cam- era	Disk SATA GB ⁸ rpm	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Bat- tery cells	Whorse (W) Pre- Gbl (G) Avail date		
7458-8SU	P8600	2.40	2GB	12.1" WXGA	Cam 128GB SSD			Intel 5100 ²⁸	WWAN upg			6	XP	Dec08	
7458-8RU	P8600	2.40	2GB	12.1" WXGA	Cam 128GB SSD			Intel 5300 ²⁸	WWAN upg	Blue	Finger	6	B32	Dec08	
7458-8QU	P8600	2.40	2GB	12.1" WXGA	Cam 128GB SSD			WiMAX	WWAN upg	Blue	Finger	6	B32	Dec08	
7458-8PU	P8600	2.40	2GB	12.1" WXGA	Cam 128GB SSD			WiMAX	WWAN upg	Blue	Finger	6	B32	Dec08	
7458-7BU	P8600	2.40	2GB	12.1" WXGA	Cam 160GB 7200	Combo	UltraBase	WiMAX	WWAN upg	2G Turbo	Blue	Finger	9	U32 W	Dec08
Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ 2 Duo processor P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache											Preloaded operating system ²⁰			
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; Non-italics: standard memory in 1 socket; 1 socket available											- Some: Microsoft Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit) ◇ Vista Premium logo			
Diskette drive	None (use optional USB-based diskette drive)											Preloaded applications ¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition			
SATA Combo	Some: CD-RW/DVD-ROM (43N3213), SATA 1.5Gb/s, removable from X200 UltraBase														
Ultrabay Slim	Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781)														
SATA disk	Some: 128GB ⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high Some: 160GB ⁸ (7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ All: removable, upgradable, shock mounted storage, supports 2nd disk in optional or standard X200 UltraBase														
Widescreen display	12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 250:1 contrast ratio														
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus														
Graphics controller	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45														
Graphics - external	External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; Maximum external resolution: 2048x1536@75Hz (VGA)														
Keyboard	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass														
Touch pad	None														
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions														
Dimensions ³	without X200 UltraBase; 4-cell: 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 21-35mm without X200 UltraBase; 9-cell: 11.6" x 9.2" x 0.8-1.4"; 295mm x 234mm x 21-35mm 4-cell: from 2.98 lb (1.35kg); 6-cell: from 3.26 lb (1.48kg); 9-cell: from 3.61 lb (1.64kg)											Supports ThinkVantage® technologies			
Weight ²												ThinkPad X200 UltraBase™			
Case color	Black											• Provides desktop expansion and cable management for X200 Series			
Case material	Magnesium alloy											• Easily connects to the bottom of the X200 Series for traveling			
Battery - type	Lithium Ion 6-cell or 9-cell											• Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side:			
Battery - life ¹⁰	4-cell: up to 3.3 hr; 6-cell: up to 6.5 hr; 9-cell: up to 9.8 hr											- CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411			
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)											Other features: • Power button (front) • Stereo speakers (2 watt) • Security key lock, security keyhole, and optional security screw • Analog DB-15 monitor port • DisplayPort (supports single-link DVI-D via cable 45J7915) • Four USB 2.0 ports • Gigabit ethernet port • Microphone in and headphone out • Second battery charger • Requires 65 or 90 watt AC adapter • 1.6 lb; 730g			
Media slice	Some: ThinkPad X200 UltraBase media slice (see right side)											65-watt (GMA graphics) AC Adapter			
Multicard reader	5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC)											Climate Savers® certified			
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)											ENERGY STAR® 4.0-compliant			
Ports	Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)											EPEAT™ Silver rating			
Mini PCI Express	Three Mini PCI Express slots											ROHS-compliant			
Intel 5100 ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)											International Warranty Service ¹⁷			
Intel 5300 ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)											24 hour x 7 day ¹⁸ toll-free support			
WiMAX	Some: 11a/b/g/n and WiMAX wireless ⁴ , Mini PCIe adap, Intel WiMAX/WiFi Link 5350, 3x3 (450Mbps) WiFi + 1x2 WiMAX (Echo Peak)											during the warranty period ¹²			
WWAN upg	Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)											via 800-426-7378			
2G Turbo	Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator														
UWB	None														
Modem	56K V.92 ⁶ modem														
Bluetooth™	Some: Bluetooth 2.0 wireless, LED indicator														
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1														
Intel AMT	Intel Active Management Technology (IAMT 4.0)														
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / mono speaker, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole														
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant														
Fingerprint reader	Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip														
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available														
1GB PC3-8500 DDR3 SODIMM	43R1987				X200 Series Li-Ion Battery 6-cell				43R9254						
2GB PC3-8500 DDR3 SODIMM	43R1988				X200 Series Li-Ion Battery 9-cell				43R9255						
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406				90W Slim AC/DC Combo Adapter				41N8460						
320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3403				ThinkPad Business Topload Case				43R2476						
USB 2.0 Ultra Secure Memory Key 8GB	45J5918				ThinkPad Business Backpack				43R2482						
USB 2.0 Portable Secure 320GB Hard Disk	43R2019				X200 Series 12W Privacy Filter				43R2470						
USB 2.0 Super Multi-Burner Drive	41N5565				DisplayPort to Single-link DVI-D Cable				45J7915						
ThinkPad X200 UltraBase	43R8781				ThinkVision® L1940p Wide 19" Monitor				4424HB6						
Verizon WWAN UNDP Broadband	43R9151				ThinkVision L2240p Wide 22" Monitor				4422HB6						
AT&T WWAN HSPA Broadband Mini PCIe	43R9152				ThinkVision L2440p Wide 24" Monitor				4420HB2						
Other accessories on O-X200 sheet												Other accessories at lenovo.com/accessories			

See footnotes for important warranty information
US models announced December 2 or December 9, 2008

◇ Intel Centrino® 2 with vPro™ technology

ThinkPad® X200 (7459) - Onsite

Proc- Type-model	essor GHz	Mem- ory GB	Wide- screen display	Cam- era	Disk SATA GB ³	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger Bat- print tery reader cells	Whorse (W) Gbl (G) Avail Preload GMP (P) date
7459-M2U	P8600 2.40	1GB	12.1" WXGA		160GB 5400			✦ Intel 5100 ²⁸			4	Bus32 WGP Aug 08
7459-M3U	P8600 2.40	1GB	12.1" WXGA		160GB 5400			✦ Intel 5100			Finger 6	Bus32 WGP Aug 08
7459-5EU	P8600 2.40	2GB	12.1" WXGA		160GB 5400			✦ Intel 5100			6	Bus32 WGP Aug 08
7459-5FU	P8600 2.40	2GB	12.1" WXGA		160GB 7200			✦ Intel 5100			Finger 6	Bus32 WGP Aug 08
7459-69U	P8600 2.40	2GB	12.1" WXGA Cam		160GB 5400			✦ Intel 5300 ²⁸	WWAN upg	2G Turbo	Finger 6	Bus32 WGP Aug 08
7459-M4U	P8600 2.40	2GB	12.1" WXGA Cam		160GB 7200	Combo	UltraBase	✦ WiMAX	WWAN upg		Finger 9	Ult 32 W Oct 08

• These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ 2 Duo processor P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache							Preloaded operating system²⁰ - Some: Microsoft® Windows® Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit) ✦ Vista Premium logo								
Memory	1GB or 2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available							Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Fingerprint Software (fingerprint models) • Windows Live™ Toolbar and Search • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition								
Diskette drive	None (use optional USB-based diskette drive)							Supports ThinkVantage® technologies ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 – DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 – Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 – Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 Other features: • Power button (front) • Stereo speakers (2 watt) • Security key lock, security keyhole, and optional security screw • Analog DB-15 monitor port • DisplayPort (supports single-link DVI-D via cable 45J7915) • Four USB 2.0 ports • Gigabit ethernet port • Microphone in and headphone out • Second battery charger • Requires 65 or 90 watt AC adapter • 1.6 lb; 730g								
SATA Combo Ultrabay Slim SATA disk	Supports Ultrabay Slim devices in optional ThinkPad X200 UltraBase (43R8781) 160GB ³ (5400 or 7200rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™, supports 2nd disk in optional or std X200 UltraBase															
Widescreen display	12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 250:1 contrast ratio							Supports ThinkVantage® technologies								
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus															
Graphics controller	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45							Supports ThinkVantage® technologies								
Graphics - external	External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; Maximum external resolution: 2048x1536@75Hz (VGA)															
Keyboard	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys							Supports ThinkVantage® technologies								
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass															
Touch pad	None							Supports ThinkVantage® technologies								
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions															
Dimensions ³	without X200 UltraBase; 4-cell: 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 21-35mm without X200 UltraBase; 9-cell: 11.6" x 9.2" x 0.8-1.4"; 295mm x 234mm x 21-35mm 4-cell: from 2.98 lb (1.35kg); 6-cell: from 3.26 lb (1.48kg); 9-cell: from 3.61 lb (1.64kg) Color: black; Material: magnesium alloy							Supports ThinkVantage® technologies								
Weight ²																
Case	Lithium Ion 4-cell, 6-cell, or 9-cell							Supports ThinkVantage® technologies								
Battery - type	4-cell: up to 3.3 hr; 6-cell: up to 6.5 hr; 9-cell: up to 9.8 hr															
Battery - life ¹⁰								Supports ThinkVantage® technologies								
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)															
Media slice	Some: ThinkPad X200 UltraBase media slice (see right side)							Supports ThinkVantage® technologies								
Multicard Reader	5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC)															
ExpressCard slot	One ExpressCard/34 or ExpressCard/54							Supports ThinkVantage® technologies								
Ports	Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)															
Mini PCI Express	Three Mini PCI Express slots							Supports ThinkVantage® technologies								
Intel 5100 ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)															
Intel 5300 ²⁸	Some: 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)							Supports ThinkVantage® technologies								
WiMAX	Some: 11a/b/g/n and WiMAX wireless ⁴ , Mini PCIe adap, Intel WiMAX/WiFi Link 5350, 3x3 (450Mbps) WiFi + 1x2 WiMAX (Echo Peak)															
WWAN upg	Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)							Supports ThinkVantage® technologies								
2G Turbo	Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator															
UWB	None							Supports ThinkVantage® technologies								
Modem	56K V.92 ⁶ modem															
Bluetooth™	Bluetooth 2.0 wireless, LED indicator							Supports ThinkVantage® technologies								
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1															
Intel AMT	Intel Active Management Technology (IAMT 4.0)							Supports ThinkVantage® technologies								
Audio support	High Definition (HD) Audio, Conexant CX20561 codec / mono speaker, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack															
Security	Power-on password, hard disk password, supervisor password, security keyhole							Supports ThinkVantage® technologies								
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant															
Fingerprint reader	Some: Fingerprint reader on palm rest, swipe sensor, supports the security chip							Supports ThinkVantage® technologies								
Limited warranty ¹²	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available															
1GB PC3-8500 DDR3 SODIMM	43R1987		X200 Series Li-Ion Battery 6-cell		43R9254		Supports ThinkVantage® technologies									
2GB PC3-8500 DDR3 SODIMM	43R1988		X200 Series Li-Ion Battery 9-cell		43R9255											
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406		90W Slim AC/DC Combo Adapter		41N8460											
320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3403		ThinkPad Business Topload Case		43R2476											
USB 2.0 Ultra Secure Memory Key 8GB	45J5918		ThinkPad Business Backpack		43R2482											
USB 2.0 Super Multi-Burner Drive	41N5565		X200 Series 12W Privacy Filter		43R2470											
ThinkPad X200 UltraBase	43R8781		ThinkVision® L1940p Wide 19" Monitor		4424HB6											
Verizon WWAN UNDP Broadband	43R9151		ThinkVision L2240p Wide 22" Monitor		4422HB6											
AT&T WWAN HSPA Broadband Mini PCIe	43R9152		ThinkVision L2440p Wide 24" Monitor		4420HB2											
Other accessories on O-X200 sheet			Other accessories at lenovo.com/accessories													
												65-watt (GMA graphics) AC Adapter Climate Savers® certified ENERGY STAR® 4.0-compliant EPEAT™ Silver rating ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378				

See footnotes for important warranty information

✦ Intel Centrino® 2 with vPro™ technology

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US model announced October 14, 2008; previous models on August 5, 2008

(MOC1-3) October 2008

ThinkPad® X200 (7458) - Education (EasyServ)

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Cam- era	Disk SATA GB ⁵	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Bat- tery cells	Whorse (W) Gbl (G)	Avail date
7458-E2U	P8600	2.40 2GB	12.1" WXGA	Cam	160GB	5400	Optional	Optional	Intel 5100 ²⁸	WWAN upg	None	Finger	6	Bus32 W Aug 08

• **This model has an EasyServ™,19 depot repair service 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ 2 Duo processor P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ↔ Vista Premium logo			
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										Preloaded applications¹⁴ (only some listed)			
Diskette drive SATA DVD±RW Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) Option for <i>ThinkPad X200 UltraBase</i> Supports Ultrabay Slim devices in optional <i>ThinkPad X200 UltraBase</i> (43R8781) 160GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™, supports 2nd disk in optional or std <i>X200 UltraBase</i>										<ul style="list-style-type: none"> Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection <ul style="list-style-type: none"> - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 Rescue and Recovery™ Client Security Solution™ ThinkVantage System Update McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) Microsoft Office 2007 Trial (60-day) 			
Widescreen display Camera	12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 250:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus										<ul style="list-style-type: none"> Supports ThinkVantage® technologies 			
Graphics controller Graphics - external	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45 External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase <i>Maximum external resolution: 2048x1536@75Hz</i>										<ul style="list-style-type: none"> ThinkPad X200 UltraBase™ Provides desktop expansion and cable management for X200 Series Easily connects to the bottom of the X200 Series for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: <ul style="list-style-type: none"> - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 			
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None Illuminates the keyboard to improve visibility in low-light conditions										<ul style="list-style-type: none"> Other features: • Power button (front) • Stereo speakers (2 watt) • Security key lock, security keyhole, and optional security screw • Analog DB-15 monitor port • DisplayPort (supports single-link DVI-D via cable 45J7915) • Four USB 2.0 ports • Gigabit ethernet port • Microphone in and headphone out • Second battery charger • Requires 65 or 90 watt AC adapter • 1.6 lb; 730g 			
Dimensions ³ Weight ² Case Battery - type Battery - life ¹⁰	without X200 UltraBase; 4-cell: 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 21-35mm without X200 UltraBase; 9-cell: 11.6" x 9.2" x 0.8-1.4"; 295mm x 234mm x 21-35mm 6-cell: from 3.26 lb (1.48kg); 9-cell: from 3.61 lb (1.64kg) Color: black; Material: magnesium alloy Lithium Ion 6-cell 6-cell: up to 6.5 hr; 9-cell: up to 9.8 hr													
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)													
Media slice Multicard Reader ExpressCard slot Ports	Option: ThinkPad X200 UltraBase media slice (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One ExpressCard/34 or ExpressCard/54 Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)													
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None 56K V.92 ⁵ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / mono speaker, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack													
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip													
Limited warranty ¹²	3-years/1-yr battery - EasyServ™,19 depot repair service / service upgrades²² available													
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM Serial ATA Hard Drive Bay Adapter II SATA 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (5400 rpm) USB 2.0 Security Memory Key 4GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive USB 2.0 Security Memory Key 4GB ThinkPad X200 UltraBase Verizon WWAN UNDP Broadband AT&T WWAN HSPA Broadband Mini PCIe Laser Tilt Wheel Travel Mouse (Bluetooth) Other accessories on O-X200 sheet	43R1987 43R1988 43R1980 43N3406 43N3403 41U5120 45J5918 41N5565 43R8770 43R8781 43R9151 43R9152 41U5008	X200 Series Li-Ion Battery 4-cell X200 Series Li-Ion Battery 6-cell X200 Series Li-Ion Battery 9-cell 90W Slim AC/DC Combo Adapter ThinkPad Ultraportable Case ThinkPad Business Topload Case ThinkPad Business Backpack X200 Series 12W Privacy Filter ThinkVision® USB Soundbar (up to 22") ThinkVision L1700p 17" Monitor ThinkVision L1940p Wide 19" Monitor ThinkVision L2240p Wide 22" Monitor ThinkVision L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	43R9253 43R9254 43R9255 41N8460 41U5062 43R2476 43R2482 43R2470 40Y7616 9417HE2 4424HB6 4422HB6 4421HB2	65-watt (GMA graphics) AC Adapter Climate Savers® certified ENERGY STAR® 4.0-compliant EPEAT™ Silver rating ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378										

See footnotes for important warranty information
US models announced August 5, 2008

↔ Intel Centrino® 2 with vPro™ technology

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(MOC1-4) November 2008

ThinkPad® X200 (7459) - Education (Onsite)

Personal Systems Reference (PSREF)

Proc- Type-model	essor GHz	Memory	Wide- screen display	Cam- era	Disk SATA GB ^s	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Finger print reader	Bat- tery cells	Whorse (W) Gbl (G)	Avail date
7459-E3U	P8600	2.40 2GB	12.1" WXGA	Cam	160GB	5400	Optional	Optional	Intel 5100 ²⁸	WWAN upg	None	None	6 Bus32 W	Aug08

• **This model has a limited onsite service²⁴ 3-year limited warranty**

Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.

Positioning Processor	An ultraportable for the executive on the move; one spindle Intel Core 2 Duo processor P8600 with dual-core, Intel HD boost, 1066MHz system bus, and 3MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ↔ Vista Premium logo			
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										Preloaded applications¹⁴ (only some listed)			
Diskette drive SATA DVD±RW Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) Option for <i>ThinkPad X200 UltraBase</i> Supports Ultrabay Slim devices in optional <i>ThinkPad X200 UltraBase</i> (43R8781) 160GB⁸ (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™, supports 2nd disk in optional or std <i>X200 UltraBase</i>										<ul style="list-style-type: none"> Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • Microsoft Office 2007 Trial (60-day) 			
Widescreen display Camera	12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 250:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus										<ul style="list-style-type: none"> • Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • Microsoft Office 2007 Trial (60-day) 			
Graphics controller Graphics - external	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GM45 External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase <i>Maximum external resolution: 2048x1536@75Hz</i>										<ul style="list-style-type: none"> • Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • Microsoft Office 2007 Trial (60-day) 			
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None Illuminates the keyboard to improve visibility in low-light conditions										Supports ThinkVantage® technologies			
Dimensions ³	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 21-35mm <i>without X200 UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 234mm x 21-35mm <i>6-cell:</i> from 3.26 lb (1.48kg); <i>9-cell:</i> from 3.61 lb (1.64kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy										ThinkPad X200 UltraBase™			
Weight ² Case Battery - type Battery - life ¹⁰	Lithium Ion 6-cell <i>6-cell:</i> up to 6.5 hr; <i>9-cell:</i> up to 9.8 hr										<ul style="list-style-type: none"> • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: <ul style="list-style-type: none"> - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 			
Chipset	Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)										<ul style="list-style-type: none"> • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: <ul style="list-style-type: none"> - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 			
Media slice Multicard Reader ExpressCard slot Ports	<i>Option:</i> ThinkPad X200 UltraBase media slice (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One ExpressCard/34 or ExpressCard/54 Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)										<ul style="list-style-type: none"> • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: <ul style="list-style-type: none"> - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 			
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None 56K V.92 ⁵ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / mono speaker, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack										<ul style="list-style-type: none"> • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: <ul style="list-style-type: none"> - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant None										<ul style="list-style-type: none"> • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: <ul style="list-style-type: none"> - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 			
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/ service upgrades ²² available										<ul style="list-style-type: none"> • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: <ul style="list-style-type: none"> - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 			
1GB PC3-8500 DDR3 SODIMM	43R1987		X200 Series Li-Ion Battery 4-cell		43R9253									
2GB PC3-8500 DDR3 SODIMM	43R1988		X200 Series Li-Ion Battery 6-cell		43R9254									
Serial ATA Hard Drive Bay Adapter II SATA	43R1980		X200 Series Li-Ion Battery 9-cell		43R9255									
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406		90W Slim AC/DC Combo Adapter		41N8460									
320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3403		ThinkPad Ultraportable Case		41U5062									
USB 2.0 Security Memory Key 4GB	41U5120		ThinkPad Business Topload Case		43R2476									
USB 2.0 Ultra Secure Memory Key 8GB	45J5918		ThinkPad Business Backpack		43R2482									
USB 2.0 Super Multi-Burner Drive	41N5565		X200 Series 12W Privacy Filter		43R2470									
USB 2.0 Lenovo Enhanced Port Replicator	43R8770		ThinkVision® L1700p 17" Monitor		9417HE2									
ThinkPad X200 UltraBase	43R8781		ThinkVision L1940p Wide 19" Monitor		4424HB6									
Verizon WWAN UNDP Broadband	43R9151		ThinkVision L2240p Wide 22" Monitor		4422HB6									
AT&T WWAN HSPA Broadband Mini PCIe	43R9152		ThinkVision L2440p Wide 24" Monitor		4420HB2									
Other accessories on O-X200 sheet			Other accessories at lenovo.com/accessories											

See footnotes for important warranty information
US models announced August 5, 2008

↔ Intel Centrino® 2 with vPro™ technology

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(MOC1-5) November 2008

ThinkPad®



Lenovo ThinkPad X200s



Lenovo ThinkPad X200s
with optional X200 UltraBase,
DVD Burner, and 9-cell Battery



Lenovo ThinkPad X200s



Lenovo ThinkPad X200s
with optional X200 UltraBase,
DVD Burner, and 9-cell Battery



Lenovo ThinkPad X200s



Lenovo ThinkPad X200s

ThinkPad® X200s (7466) - TopSeller

Type-model	Proc- essor	GHz	Memory	Widescreen display	Disk SATA GB ⁹ rpm	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Fing cells	Workhorse (W) Global (G) Avail date
7466-3GU	SL9400	1.86	4GB	12.1" WXGA+	160GB 7200	DVD±RW	UltraBase	Intel 5100 ²⁸	None	2G Turbo	Yes 9	Bus 32 No Sep 08
7466-3HU	SL9400	1.86	2GB	12.1" WXGA+	160GB 7200	DVD±RW	UltraBase	Intel 5100	None	None	Yes 6	XP Pro No Sep 08
7466-3JU	SL9400	1.86	4GB	12.1" WXGA+	160GB 7200	DVD±RW	UltraBase	Intel 5100	None	None	Yes 9	XP Pro No Sep 08

- Compared to the X200, the X200s has lighter weight, low voltage processors, LED backlight displays, and roll cage in display cover
- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-years limited warranty

Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ 2 Duo processor SL9400 with low voltage, dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache																																																
Memory	2GB or 4GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available																																																
Diskette drive SATA DVD±RW Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) <i>Some:</i> DVD burner (43N3214), SATA 1.5Gb/s, removable from X200 UltraBase Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781) 160GB ⁸ (7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™, supports 2nd disk in optional or std X200 UltraBase																																																
Widescreen display Camera	12.1" (308mm) WXGA+ (1440x900) color, anti-glare, LED backlight, 250 nits, 16:10 aspect ratio, 300:1 contrast ratio None																																																
Graphics controller Graphics - external	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GS45 External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; <i>Maximum external resolution:</i> 2048x1536@75Hz																																																
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None Illuminates the keyboard to improve visibility in low-light conditions																																																
Dimensions ³	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 8.3" x 0.8-1.1"; 295mm x 210mm x 21-29mm <i>without X200 UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 234mm x 21-35mm <i>4-cell:</i> from 2.43 lb (1.1kg); <i>6-cell:</i> from 2.71 lb (1.23kg); <i>9-cell:</i> from 3.05 lb (1.38kg)																																																
Weight ² Case material	<i>Color:</i> black; <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy																																																
Battery - type Battery - life ¹⁰	Lithium Ion 6-cell or 9-cell <i>4-cell:</i> up to 4.4 hr; <i>6-cell:</i> up to 8.8 hr; <i>9-cell:</i> up to 13.2 hr																																																
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub), ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)																																																
Media slice Multicard Reader ExpressCard/54 Ports	<i>Some:</i> X200 UltraBase media slice (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)																																																
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) None <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None																																																
Modem Bluetooth™ Ethernet Intel AMT Audio support	56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / mono speaker, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack																																																
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip																																																
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available																																																
1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	X200 Series Li-Ion Battery 4-cell	43R9253	2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	X200 Series Li-Ion Battery 6-cell	43R9254	Serial ATA Hard Drive Bay Adapter II SATA	43R1980	X200 Series Li-Ion Battery 9-cell	43R9255	128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkPad External Battery Charger	40Y7625	90W Slim AC/DC Combo Adapter	41N8460	320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3403	ThinkPad Ultraportable Case	41U5062	USB 2.0 Essential Memory Key 32GB	45K1258	ThinkPad Business Topload Case	43R2476	USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ThinkPad Business Backpack	43R2482	USB 2.0 Super Multi-Burner Drive	41N5565	X200 Series 12W Privacy Filter	43R2470	USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkVision® L1940p Wide 19" Monitor	4424HB6	ThinkPad X200 UltraBase	43R8781	ThinkVision L2240p Wide 22" Monitor	4422HB6	Wireless Kybd & Opt Wheel Mouse (USB)	73P4067	ThinkVision L2440p Wide 24" Monitor	4420HB2	Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	Other accessories at lenovo.com/accessories	

- Preloaded operating system²⁰**
- *Some:* Microsoft® Windows® XP Professional with Vista® COA
 - *Some:* Microsoft Windows Vista Business Edition (32-bit)
 - ↳ Vista Premium logo
- Preloaded applications¹⁴** (all OSes; only some listed)
- Rescue and Recovery™
 - Access Connections™
 - Client Security Solution™
 - ThinkVantage System Update
 - McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions)
 - Fingerprint Software
 - Windows Live™ Toolbar and Search
 - Microsoft Office 2007 Trial (60-day)
 - Roxio® Creator® Business Edition
 - Roxio MyDVD® (DVD±RW)

- Supports ThinkVantage® technologies
- ThinkPad X200 UltraBase™**
- Provides desktop expansion and cable management for X200 Series
 - Easily connects to the bottom of the X200 Series for traveling
 - Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side:
 - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213
 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214
 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215
 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980
 - Disks supported (some):
 - 250GB FDE 7200 rpm 43N3410
 - 320GB Disk 7200 rpm 43N3411

- Other features:
- Power button (front)
 - Stereo speakers (2 watt)
 - Security key lock, security keyhole, and optional security screw
 - Analog DB-15 monitor port
 - DisplayPort (supports single-link DVI-D via cable 45J7915)
 - Four USB 2.0 ports
 - Gigabit ethernet port
 - Microphone in and headphone out
 - Second battery charger
 - Requires 65 or 90 watt AC adapter
 - 1.6 lb; 730g

- 65-watt (GMA graphics) AC Adapter
- Climate Savers® certified
- ENERGY STAR® 4.0-compliant
- Next Generation ThinkPad Roll Cage (in display cover)
- EPEAT™ Gold rating
- ROHS-compliant
- International Warranty Service¹⁷
- 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378

See footnotes for important warranty information
US models announced September 23, 2008

↳ Intel Centrino® 2 with vPro™ technology

Type-model	Proc- essor	GHz	Memory	Widescreen display	Disk SATA GB ⁸ rpm	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue/ Fing cells	Workhorse (W) Global (G)	Avail date		
7469-5GU	SL9400	1.86	2GB	12.1" WXGA+	160GB 5400			◆ Intel 5100 ²⁸	None	None	Yes	6	Bus 32	G W	Sep 08
7469-5HU	SL9400	1.86	2GB	12.1" WXGA+	160GB 7200			◆ Intel 5300 ²⁸	None	None	Yes	4	Bus 32	G W	Sep 08
7469-5JU	SL9400	1.86	2GB	12.1" WXGA+	80GB SSD	Combo	UltraBase	◆ Intel 5100	None	None	Yes	6	XP Pro	W	Dec 08
7469-74U	SL9400	1.86	2GB	12.1" WXGA+	80GB SSD			◆ Intel 5300	None	None	Yes	4	XP Pro	W	Dec 08
7469-7YU	SL9300	1.60	2GB	12.1" WXGA+	128GB SSD			◆ WiMAX	None	None	Yes	6	Bus 32		Dec 08
7469-7ZU	SL9300	1.60	2GB	12.1" WXGA+	128GB SSD			◆ Intel 5100	None	None	Yes	4	Bus 32		Dec 08
7469-82U	SL9300	1.60	2GB	12.1" WXGA+	128GB SSD			◆ Intel 5300	None	None	Yes	6	XP Pro		Dec 08

• Compared to the X200, the X200s has lighter weight, low voltage processors, LED backlight displays, and roll cage in display cover

Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ 2 Duo processor SL9300 or SL9400 with low voltage, dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available	- Some: Microsoft Windows Vista Business Edition (32-bit) ◆ Vista Premium logo
Diskette drive SATA Combo Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) <i>Some:</i> CD-RW/DVD-ROM (43N3213), SATA 1.5Gb/s, removable from X200 UltraBase Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781) <i>Some:</i> 80GB⁸ or 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 160GB⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, shock mounted storage, supports 2nd disk in optional or standard X200 UltraBase	Preloaded applications¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • ThinkPad Utilities • Windows Live™ Toolbar and Search • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition
Widescreen display Camera	12.1" (308mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 250 nits, 16:10 aspect ratio, 300:1 contrast ratio None	
Graphics controller Graphics - external	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45 External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; <i>Maximum external resolution:</i> 2048x1536@75Hz	
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None Illuminates the keyboard to improve visibility in low-light conditions	Supports ThinkVantage® technologies
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 8.3" x 0.8-1.1"; 295mm x 210mm x 21-29mm <i>without X200 UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 234mm x 21-35mm <i>4-cell:</i> from 2.43 lb (1.1kg); <i>6-cell:</i> from 2.71 lb (1.23kg); <i>9-cell:</i> from 3.05 lb (1.38kg) Black <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy Lithium Ion 4-cell or 6-cell <i>4-cell:</i> up to 4.4 hr; <i>6-cell:</i> up to 8.8 hr; <i>9-cell:</i> up to 13.2 hr	ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 – DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 – Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 – Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub), ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)	Other features: • Power button (front) • Stereo speakers (2 watt) • Security key lock, security keyhole, and optional security screw • Analog DB-15 monitor port • DisplayPort (supports single-link DVI-D via cable 45J7915) • Four USB 2.0 ports • Gigabit ethernet port • Microphone in and headphone out • Second battery charger • Requires 65 or 90 watt AC adapter • 1.6 lb; 730g
Media slice Multicard reader ExpressCard/54 Ports	<i>Some:</i> ThinkPad X200 UltraBase media slice (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)	
Mini PCI Express Intel 5100 ²⁸ Intel 5300 ²⁸ WiMAX WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) <i>Some:</i> 11a/b/g/n and WiMAX wireless ⁴ , Mini PCIe adap, Intel WiMAX/WiFi Link 5350, 3x3 (450Mbps) WiFi + 1x2 WiMAX (Echo Peak) None None None 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / mono speaker, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack	
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip	
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available	65-watt (GMA graphics) AC Adapter Climate Savers® certified ENERGY STAR® 4.0-compliant Next Generation ThinkPad Roll Cage (in display cover) EPEAT™ Gold rating ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (5400 rpm) USB 2.0 Super Multi-Burner Drive USB 2.0 Portable Secure 320GB Hard Disk Laser Tilt Wheel Travel Mouse (Bluetooth) Other accessories on O-X200 sheet	43R1987 43R1988 43N3406 43N3403 41N5565 43R2019 41U5008	X200 Series Li-Ion Battery 6-cell 43R9254 X200 Series Li-Ion Battery 9-cell 43R9255 90W Slim AC/DC Combo Adapter 41N8460 ThinkPad Ultraportable Case 41U5062 X200 Series 12W Privacy Filter 43R2470 ThinkVision® L2240p Wide 22" Monitor 4422HB6 ThinkVision L2440p Wide 24" Monitor 4420HB2 Other accessories at lenovo.com/accessories

See footnotes for important warranty information

◆ Intel Centrino® 2 with vPro™ technology

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® US models announced December 9, 2008; previous models on September 23, 2008

(PEC1-2) December 2008

Type-model	Proc- essor	GHz	Memory	Widescreen display	Disk SATA GB ³ rpm	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue/ Fing cells	Workhorse (W) Global (G) Preload GMP (P)	Avail date
7470-5GU	SL9400	1.86	2GB	12.1" WXGA+	160GB 5400	Optional	Optional	Intel 5100 ²⁸	None	None	Yes 6	Bus 32 W G P	Sep 08
7470-5HU	SL9400	1.86	2GB	12.1" WXGA+	160GB 7200	Optional	Optional	Intel 5300 ²⁸	None	None	Yes 4	Bus 32 W G P	Sep 08
7470-6FU	SL9400	1.86	2GB	12.1" WXGA+	160GB 5400	Optional	Optional	Intel 5100	None	None	Yes 6	Bus 32 W	Sep 08
7470-6GU	SL9400	1.86	2GB	12.1" WXGA+	80GB 5400	Optional	Optional	Intel 5300	None	None	Yes 4	Bus 32 W	Sep 08
7470-6HU	SL9400	1.86	2GB	12.1" WXGA+	80GB SSD	Optional	Optional	Intel 5300	None	None	Yes 4	XP Pro W	Dec 08

- Compared to the X200, the X200s has lighter weight, low voltage processors, LED backlight displays, and roll cage in display cover
- Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ 2 Duo processor SL9400 with low voltage, dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache		Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ⇨ Vista Premium logo Preloaded applications¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • ThinkPad Utilities • Windows Live™ Toolbar and Search • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available		
Diskette drive SATA DVD±RW Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) Option for <i>ThinkPad X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) <i>Some:</i> 80GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 80GB⁸ (5400) or 160GB (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, shock mounted storage, supports 2nd disk in optional or standard <i>X200 UltraBase</i>		
Widescreen display Camera	12.1" (308mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 250 nits, 16:10 aspect ratio, 300:1 contrast ratio None		
Graphics controller Graphics - external	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45 External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; <i>Maximum external resolution:</i> 2048x1536@75Hz		
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None Illuminates the keyboard to improve visibility in low-light conditions		
Dimensions ³	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 8.3" x 0.8-1.1"; 295mm x 210mm x 21-29mm <i>without X200 UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 234mm x 21-35mm <i>4-cell:</i> from 2.43 lb (1.1kg); <i>6-cell:</i> from 2.71 lb (1.23kg); <i>9-cell:</i> from 3.05 lb (1.38kg)		
Weight ² Case color Case material	Black <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy		
Battery - type Battery - life ¹⁰	Lithium Ion 4-cell or 6-cell <i>4-cell:</i> up to 4.4 hr; <i>6-cell:</i> up to 8.8 hr; <i>9-cell:</i> up to 13.2 hr		
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub), ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)		
Media slice Multicard reader ExpressCard/54 Ports	<i>Option:</i> ThinkPad X200 UltraBase media slice (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)		
Mini PCI Express Intel 5100 ²⁸ Intel 5300 ²⁸ WWAN upg 2G Turbo UWB	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) None None None		
Modem Bluetooth™ Ethernet Intel AMT Audio support	56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, Conexant CX20561 codec / mono speaker, 1 watt / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack		
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip		
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/ service upgrades ²² available		
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 320GB Disk SATA 1.5Gb/s (5400 rpm) USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Super Multi-Burner Drive USB 2.0 Portable Secure 320GB Hard Disk Laser Tilt Wheel Travel Mouse (Bluetooth) Other accessories on O-X200 sheet	43R1987 43R1988 43N3406 43N3403 45J5918 41N5565 43R2019 41U5008	X200 Series Li-Ion Battery 6-cell X200 Series Li-Ion Battery 9-cell 90W Slim AC/DC Combo Adapter ThinkPad Ultraportable Case ThinkPad Business Topload Case X200 Series 12W Privacy Filter ThinkVision® L2240p Wide 22" Monitor ThinkVision L2440p Wide 24" Monitor Other accessories at lenovo.com/accessories	43R9254 43R9255 41N8460 41U5062 43R2476 43R2470 4422HB6 4420HB2

Supports ThinkVantage® technologies

ThinkPad X200 UltraBase™

- Provides desktop expansion and cable management for X200 Series
- Easily connects to the bottom of the X200 Series for traveling
- Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side:
 - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213
 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214
 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215
 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980
- Disks supported (some):
 - 250GB FDE 7200 rpm 43N3410
 - 320GB Disk 7200 rpm 43N3411

Other features:

- Power button (front)
- Stereo speakers (2 watt)
- Security key lock, security keyhole, and optional security screw
- Analog DB-15 monitor port
- DisplayPort (supports single-link DVI-D via cable 45J7915)
- Four USB 2.0 ports
- Gigabit ethernet port
- Microphone in and headphone out
- Second battery charger
- Requires 65 or 90 watt AC adapter
- 1.6 lb; 730g

65-watt (GMA graphics) AC Adapter
Climate Savers® certified
ENERGY STAR® 4.0-compliant
Next Generation ThinkPad Roll Cage (in display cover)
EPEAT™ Gold rating
ROHS-compliant
International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378

Partial list of accessories supported on:

- ThinkPad X200 originally announced on August 5, 2008
- ThinkPad X200s originally announced on September 23, 2008

Memory

1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	ann	11/04/08
1GB PC3-8500 DDR3 SODIMM	43R1987	ann	08/05/08
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	ann	11/04/08
2GB PC3-8500 DDR3 SODIMM	43R1988	ann	08/05/08

Ultrabay Slim 9.5mm

Most Ultrabay Slim accessories supported in ThinkPad X200 UltraBase

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann	03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann	10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann	01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann	01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann	08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann	01/20/09

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter 43R1980 in X200 UltraBase (43R8781)

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ann	08/26/08
USB 2.0 Essential Memory Key 2GB	41U4944	ann	01/23/07
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 Security Memory Key 2GB	41U5119	ann	07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann	07/17/07
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 Portable Diskette Drive	05K9276	ann	06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann	01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann	09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann	01/23/07

Wireless WAN (Mini PCI Express)

Verizon WWAN UNDP Broadband Mini PCIe ⁴²	43R9151	ann	08/05/08
AT&T® WWAN HSPA Broadband Mini PCIe ⁴²	43R9152	ann	08/26/08

⁴² Supported only in select models

ThinkPad Expansion

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann	02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann	09/20/05
ThinkPad X200 UltraBase	43R8781	ann	08/05/08

Keyboard

TrackPoint Cap Collection	73P2698	ann	12/16/03
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04
USB Keyboard with UltraNav	31P8950	ann	01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann	04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann	05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann	08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann	06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann	11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann	11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann	01/22/08

Security

Kensington® Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
ThinkPad X200 Series 12W Privacy Filter	43R2470	ann	08/05/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann	02/21/06
PC Card Gemplus Smart Card Reader	41N3004	ann	12/13/05
ExpressCard Gemplus Smart Card Reader	41N3043	ann	06/27/06

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann	06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann	08/29/06

Batteries

X200 Series Li-Ion Battery 4-cell	43R9253	ann	08/05/08
X200 Series Li-Ion Battery 6-cell	43R9254	ann	08/05/08
X200 Series Li-Ion Battery 9-cell	43R9255	ann	08/05/08
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann	09/20/05

⁴⁴ Requires the ThinkPad 90W AC Adapter 40Y7659 (adapter provided with some systems).

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter ⁴⁵	40Y7696	ann	01/05/06
⁴⁵ Only compatible with the GM45 chipset models.			
ThinkPad 90W AC Adapter	40Y7659	ann	09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460	ann	11/27/07

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

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460

•Dual (ThinkPad+Phone) Charging Y-Cable	41R4345	ann	12/18/07
•iPod and iPhone charge tip (L10a)	41R4481	ann	12/18/07

More information at www.lenovopowertips.com

Carrying Cases

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

Up to 14.1" widescreen models:			
ThinkPad Expander Case	43R9118	ann	06/24/08
ThinkPad Women's Microfiber Tote	22P8855		
ThinkPad Women's Leather Trim Tote	22P8856		
ThinkPad Convertible Carrying Case	22P8860		
ThinkPad Women's Executive Leather Tote	22P8857		
Women's Executive Red Leather Tote	22P8858		

Up to 15.4" widescreen models:			
Lenovo Carrying Case - Messenger Max	41U5253	ann	05/01/07
Lenovo Carr Case - Performance Backpack	41U5254	ann	05/01/07
Lenovo Standard Case	45K1697	ann	11/25/08
Lenovo Standard Backpack	45K1698	ann	11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann	02/24/09
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

Up to 17.0" widescreen models:			
ThinkPad 17W Business Topload Case	43R9117	ann	08/12/08

Lenovo luxury cases at www.lenovoluxurycases.com

Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann	04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann	09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann	11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann	09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann	04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann	09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann	09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann	09/17/08

Monitor Accessories⁴⁶

DisplayPort to Single-link DVI-D Cable	45J7915	ann	08/05/08
ThinkVision USB Soundbar	40Y7616	ann	08/23/05
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann	01/05/06
Radial Arm	19K4464	ann	05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkPad X200 Tablet
with touchscreen for finger and pen



Lenovo ThinkPad X200 Tablet
with frameless screen for pen



Lenovo ThinkPad X200 Tablet
with touchscreen for finger and pen



Lenovo ThinkPad X200 Tablet
with frameless screen for pen



Lenovo X200 UltraBase



Lenovo X200 UltraBase
with optional DVD Burner

ThinkPad® X200 Tablet (7449) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Widescreen display	CCFL or LED Cam	Disk SATA GB ³	rpm	Optical in UltraBase	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe Bat- tery or Turbo cells	Preload	Avail date
7449-EKU	SL9400	1.86	4GB	12.1" WXGA	Touch LED Cam	160G	7200	DVD±RW	UltraBase	Intel 5100 ²⁸	AT&T ²³	2G Turbo	8 Bus 64	Oct 08
7449-88U	SL9400	1.86	2GB	12.1" WXGA	LED Cam	160G	7200	DVD±RW	UltraBase	Intel 5100	WWAN upg	2G Turbo	8 Bus 32	Oct 08
7449-9FU	SL9400	1.86	2GB	12.1" WXGA		160G	5400	DVD±RW	UltraBase	Intel 5100	WWAN upg		4 XP Tab	Oct 08
7449-8JU	SL9400	1.86	2GB	12.1" WXGA	LED Cam	160G	7200	DVD±RW	UltraBase	Intel 5100	WWAN upg		8 XP Tab	Oct 08
7449-9EU	SL9400	1.86	2GB	12.1" WXGA		160G	5400		UltraBase	Intel 5100	WWAN upg		4 XP Tab	Oct 08
7449-F9U	SL9400	1.86	2GB	12.1" WXGA	Touch LED	160G	5400		UltraBase	Intel 5100	WWAN upg		8 XP Tab	Oct 08
7449-84U	SL9400	1.86	4GB	12.1" WXGA	LED Cam	128G	SSD	DVD±RW	UltraBase	Intel 5100	AT&T		8 XP Tab	Oct 08
<p>• These small and medium business (SMB) models are part of the US TopSeller™ Program</p>														
Positioning	Convertible tablet ultraportable; one spindle											Preloaded operating system ²⁰		
Processor	Intel® Core™ 2 Duo processor SL9400 with low voltage, dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache											- Some: Microsoft® Windows® XP Tablet PC Edition 2005 with Vista® COA		
Memory	2GB or 4GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											- Some: Microsoft Windows Vista Business Edition (32-bit)		
Diskette drive	None (use optional USB-based diskette drive)											- Some: Microsoft Windows Vista Business Edition (64-bit)		
SATA DVD±RW	Some: DVD burner (43N3214), SATA 1.5Gb/s, removable from X200 UltraBase											↳ Vista Premium logo		
Ultrabay Slim	Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781)											Preloaded applications ¹⁴ (all OSes; only some listed)		
SATA disk	Some: 128GB ⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high; Some: 160GB ⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, Active Protection System™											• Rescue and Recovery™		
	All: removable, upgradable, shock mounted storage, supports 2nd disk in optional or standard X200 UltraBase											• Access Connections™		
Widescreen display	Some: 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, CCFL backlight, 190 nits, 16:10 aspect ratio, 500:1 contrast ratio, FFS, frameless screen											• Client Security Solution™		
	Some: 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, LED backlight, 285 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, frameless screen											• ThinkVantage System Update		
	Touch: 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, LED backlight, 230 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, MultiView (indoor/outdoor), MultiTouch (touchscreen via finger and pen)											• McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions)		
	All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in front base, rotatable dual swivel hinge for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user), buttons on display bottom (power with slide-lock, reset, rotation, menu, all button lock)											• FingerPrint Software		
Camera	Some: camera on top of screen, 1.3-megapixel, fixed focus											• Windows Live™ Toolbar and Search		
Graphics controller	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GS45											• Microsoft Office 2007 Trial (60-day)		
Graphics - external	External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; Maximum external resolution: 2048x1536@75Hz (VGA)											• Roxio® Creator® Business Edition		
Keyboard	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys											• Roxio MyDVD® (DVD±RW)		
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass											Supports ThinkVantage® technologies		
Touch pad	None											ThinkPad X200 UltraBase™		
ThinkLight™	None											• Provides desktop expansion and cable management for X200 Series		
Dimensions ³	without X200 UltraBase; 4-cell: 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33mm without X200 UltraBase; 8-cell: 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33mm											• Easily connects to the bottom of the X200 Series for traveling		
Weight ²	4-cell: from 3.5 lb (1.6kg); 8-cell: from 3.88 lb (1.76kg)											• Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side:		
Case	Color: black; Material: magnesium alloy											- CD-RW/DVD-ROM Ultrabay Slim		
Battery - type	Lithium Ion 4-cell or 8-cell											SATA 1.5Gb/s 43N3213		
Battery - life ¹⁰	4-cell: up to 4.4 hr; 8-cell: up to 10.3 hr											- DVD Burner Ultrabay Slim		
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub), ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)											SATA 1.5Gb/s 43N3214		
Media slice	Some: X200 UltraBase media slice (see right side)											- Blu-ray™ Burner Ultrabay Slim		
Multicard Reader	5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC)											SATA 1.5Gb/s 43N3215		
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)											- Serial Hard Drive Ultrabay Slim		
Ports	Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)											Adapter II 43R1980		
Mini PCI Express	Three Mini PCI Express slots											Disks supported (some):		
Intel 5100 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)											• 250GB FDE 7200 rpm 43N3410		
WWAN upg	Some: Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)											• 320GB Disk 7200 rpm 43N3411		
AT&T ²³	Some: Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T®											Other features:		
2G Turbo	Some: Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator											• Power button (front)		
UWB	None											• Stereo speakers (2 watt)		
Modem	56K V.92 ⁶ modem											• Security key lock, security keyhole, and optional security screw		
Bluetooth™	Bluetooth 2.0 wireless, LED indicator											• Analog DB-15 monitor port		
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1											• DisplayPort (supports single-link DVI-D via cable 45J7915)		
Intel AMT	Intel Active Management Technology (IAMT 4.0)											• Four USB 2.0 ports		
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, microphone input jack, headphone jack											• Gigabit ethernet port		
Security	Power-on password, hard disk password, supervisor password, security keyhole											• Microphone in and headphone out		
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant											• Second battery charger		
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip											• Requires 65 or 90 watt AC adapter		
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available											• 1.6 lb; 730g		
USB 2.0 Super Multi-Burner Drive	41N5565											65-watt (GMA graphics) AC Adapter		
	Other accessories at lenovo.com/accessories											Climate Savers® certified		

See footnotes for important warranty information

Intel Centrino® 2 with vPro™ technology

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US model announced October 14, 2008; previous models on September 23, 2008

(CML1-1) October 2008

ThinkPad® X200 Tablet (7450)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Widescreen display	CCFL or LED	Cam	Disk SATA	Optical in	ThinkPad X200	Mini PCIe 802.11	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Blue/ Fing	Workhorse (W) Global (G) Avail date
7450-2CU	SL9400	1.86	2GB	12.1" WXGA			160G 5400	Optional	Opt	❖ Intel 5100 ²⁸	WWAN upg	2G Turbo	Yes	Bus 32 W G Oct 08
7450-28U	SL9300	1.60	2GB	12.1" WXGA		Cam	250G 5400	Optional	Opt	❖ Intel 5300 ²⁸	WWAN upg	2G Turbo	Yes	Bus 32 W G Oct 08
7450-EDU	SL9400	1.86	2GB	12.1" WXGA	LED		160G 7200	Optional	Opt	❖ Intel 5100	WWAN upg		Yes	Bus 32 W G Oct 08
7450-8HU	SL9400	1.86	2GB	12.1" WXGA	LED	Cam	160G 7200	Optional	Opt	❖ Intel 5100	WWAN upg		Yes	Bus 32 W G Oct 08
7450-9GU	SL9400	1.86	2GB	12.1" WXGA		Cam	160G 7200	Optional	Opt	❖ Intel 5300	WWAN upg		Yes	XP Tab W G Oct 08
7450-EYU	SL9300	1.60	2GB	12.1" WXGA	LED	Cam	160G 5400	Optional	Opt	❖ Intel 5300	WWAN upg		Yes	XP Tab Oct 08
7450-FDU	SL9400	1.86	2GB	12.1" WXGA	LED		160G 7200	Optional	Opt	❖ Intel 5100	WWAN upg		Yes	XP Tab W G Oct 08
Positioning Processor	<i>Convertible tablet ultraportable; one spindle</i> Intel® Core™ 2 Duo processor SL9300 or SL9400 with low voltage, dual-core , Intel HD Boost, 1066MHz system bus, and 6MB L2 cache												Preloaded operating system²⁰ - <i>Some:</i> Microsoft® Windows® XP Tablet PC Edition 2005 with Vista® COA - <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit) ❖ Vista Premium logo	
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available													
Diskette drive SATA DVD±RW Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) None Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 160GB⁸ (5400 or 7200 rpm) or 250GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™, supports 2nd disk in optional or std <i>X200 UltraBase</i>												Preloaded applications¹⁴ (all OSes; only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • Fingerprint Software (fingerprint models) • Windows Live™ Toolbar and Search • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)	
Widescreen display	<i>Some:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, CCFL backlight, 190 nits, 16:10 aspect ratio, 500:1 contrast ratio, FFS, frameless screen <i>Some:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 285 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, frameless screen <i>Touch:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 230 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, MultiView (indoor/outdoor), MultiTouch (touchscreen via finger and pen) <i>All:</i> WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in front base, rotatable dual swivel hinge for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user), buttons on display bottom (power with slide-lock, reset, rotation, menu, all button lock)													
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus												Supports ThinkVantage® technologies	
Graphics controller Graphics - external	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45 External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; <i>Maximum external resolution:</i> 2048x1536@75Hz												ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 – DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 – Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 – Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411	
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None None													
Dimensions ³	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33mm <i>without X200 UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33mm													
Weight ² Case Battery - type Battery - life ¹⁰	<i>4-cell:</i> from 3.5 lb (1.6kg); <i>8-cell:</i> from 3.88 lb (1.76kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy Lithium Ion 8-cell <i>4-cell:</i> up to 4.4 hr; <i>8-cell:</i> up to 10.3 hr													
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub), ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)													
Media slice Multicard Reader ExpressCard/54 Ports	<i>Optional: X200 UltraBase media slice</i> (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)													
Mini PCI Express Intel 5100 ²⁸ Intel 5300 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) <i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator None 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, AD1984HD codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, microphone input jack, headphone jack													
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip													
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available													
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 43N3406 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 Other accessories on O-X200 sheet	43R1987 43R1988 43N3406 43R2019	X200 Tablet Li-Ion Battery 8-cell 90W Slim AC/DC Combo Adapter ThinkPad Ultraportable Case ThinkVision® L2440x Wide 24" Monitor Other accessories at lenovo.com/accessories	43R9257 41N8460 41U5062 4421HB2											

See footnotes for important warranty information
US models announced September 23, 2008

❖ Intel Centrino® 2 with vPro™ technology

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(CML1-2) September 2008

Type-model	Proc- essor	GHz	Memory	Widescreen display	CCFL or LED	Disk SATA GB ⁹	Optical in rpm	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue/ Fing cells	Pre- load	Avail date
7450-8UU	SL94001	.86	2GB	12.1" WXGA	LED	128GBSSD	DVD±RW	UltraBase	Intel 5300 ²⁸	AT&T ²³	None	Yes	8	Bus 32 Dec 08
7450-G9U	SL93001	.60	2GB	12.1" WXGA		128G SSD			Intel 5100 ²⁸	WWAN upg	None	Yes	4	Bus 32 Dec 08
7450-GDU	SL94001	.86	2GB	12.1" WXGA	LED	128G SSD			Intel 5300	WWAN upg	None	Yes	8	Bus 32 Dec 08
7450-GEU	SL94001	.86	2GB	12.1" WXGA	Touch LED	128G SSD			Intel 5300	WWAN upg	None	Yes	8	Bus 32 Dec 08
7450-GAU	SL94001	.86	2GB	12.1" WXGA		128G SSD			WiMAX	WWAN upg	None	Yes	8	Bus 32 Jan 09
7450-GBU	SL94001	.86	2GB	12.1" WXGA	LED	128G SSD			WiMAX	WWAN upg	None	Yes	8	Bus 32 Jan 09
7450-GCU	SL94001	.86	2GB	12.1" WXGA	Touch LED	128G SSD			WiMAX	WWAN upg	None	Yes	8	Bus 32 Jan 09
Positioning Processor	Convertible tablet ultraportable; one spindle Intel® Core™ 2 Duo processor SL9300 or SL9400 with low voltage, dual-core , Intel HD Boost, 1066MHz system bus, and 6MB L2 cache											Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) - Vista Premium logo		
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											Preloaded applications¹⁴ • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions) • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Fingerprint Software (fingerprint models) • Windows Live™ Toolbar and Search • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)		
Diskette drive	None (use optional USB-based diskette drive)													
SATA DVD±RW	None													
Ultrabay Slim	Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781)													
SATA disk	80GB⁹ or 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high removable, upgradable, shock mounted storage, supports second disk in optional or standard <i>X200 UltraBase</i>													
Widescreen display	<i>Some:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, CCFL backlight, 190 nits, 16:10 aspect ratio, 500:1 contrast ratio, FFS, frameless screen <i>Some:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 285 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, frameless screen <i>Touch:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 230 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, MultiView (indoor/outdoor), MultiTouch (touchscreen via finger and pen) <i>All:</i> WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in front base, rotatable dual swivel hinge for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user), buttons on display bottom (power with slide-lock, reset, rotation, menu, all button lock)													
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus													
Graphics controller	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45											Supports ThinkVantage® technologies		
Graphics - external	External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; <i>Maximum external resolution:</i> 2048x1536@75Hz													
Keyboard	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys													
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass													
Touch pad	None													
ThinkLight™	None													
Dimensions ³	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33mm <i>without X200 UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33mm <i>4-cell:</i> from 3.5 lb (1.6kg); <i>8-cell:</i> from 3.88 lb (1.76kg)													
Weight ²														
Case color	Black													
Case material	Magnesium alloy													
Battery - type	Lithium Ion 4-cell or 8-cell													
Battery - life ¹⁰	<i>4-cell:</i> up to 4.4 hr; <i>8-cell:</i> up to 10.3 hr													
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub), ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)													
Media slice	<i>Optional: X200 UltraBase media slice</i> (see right side)													
Multicard reader	5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC)													
ExpressCard/54	One slot (ExpressCard/34, ExpressCard/54)													
Ports	Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)													
Mini PCI Express	Three Mini PCI Express slots													
Intel 5100 ²⁸	<i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)													
Intel 5300 ²⁸	<i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)													
WiMAX	<i>Some:</i> 11a/b/g/n and WiMAX wireless ⁴ , Mini PCIe adap, Intel WiMAX/WiFi Link 5350, 3x3 (450Mbps) WiFi + 1x2 WiMAX (Echo Peak)													
WWAN upg	<i>Some:</i> Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)													
AT&T ²³	<i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T													
2G Turbo	None													
UWB	None													
Modem	56K V.92 ⁹ modem													
Bluetooth™	<i>Some:</i> Bluetooth 2.0 wireless, LED indicator													
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1													
Intel AMT	Intel Active Management Technology (IAMT 4.0)													
Audio support	High Definition (HD) Audio, AD1984HD codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, microphone input jack, headphone jack													
Security	Power-on password, hard disk password, supervisor password, security keyhole													
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant													
Fingerprint reader	<i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip													
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available													
2GB PC3-8500 DDR3 SODIMM	43R1988													
Other accessories on O-X200 sheet	ThinkPad Ultraportable Case 41U5062 Other accessories at lenovo.com/accessories													
65-watt (GMA graphics) AC Adapter Climate Savers® certified ENERGY STAR® 4.0-compliant EPEAT™ Gold rating (LED models) EPEAT Silver rating (other models) ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378														

See footnotes for important warranty information

Intel Centrino® 2 with vPro™ technology

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US models announced January 6, 2009; previous models December 9, 2008

(CML1-6) January 2009

ThinkPad® X200 Tablet (7453) - Onsite

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Widescreen display	CCFL or LED	Cam	Disk SATA	Optical in	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB Blue/ or Turbo Fing	Workhorse (W) Global (G) Avail date
7453-2CU	SL9400	1.86	2GB	12.1" WXGA			160G 5400	Optional	Opt	❖ Intel 5100 ²⁸	WWAN	upg None	Bus 32 W G P Oct 08
7453-EDU	SL9400	1.86	2GB	12.1" WXGA	Touch	LED	160G 7200	Optional	Opt	❖ Intel 5100	WWAN	upg None	Yes Bus 32 W Oct 08
7453-9GU	SL9400	1.86	2GB	12.1" WXGA		Cam	160G 7200	Optional	Opt	❖ Intel 5300 ²⁸	WWAN	upg None	Yes XP Tab W G P Oct 08
7453-FDU	SL9400	1.86	2GB	12.1" WXGA	Touch	LED	160G 7200	Optional	Opt	❖ Intel 5100	WWAN	upg None	Yes XP Tab W G P Oct 08
7453-8HU	SL9400	1.86	2GB	12.1" WXGA		LED Cam	160G 7200	Optional	Opt	❖ Intel 5100	WWAN	upg None	Yes Bus 32 W Oct 08
Positioning Processor	<i>Convertible tablet ultraportable; one spindle</i> Intel® Core™ 2 Duo processor SL9300 or SL9400 with low voltage, dual-core , Intel HD Boost, 1066MHz system bus, and 6MB L2 cache												
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available												
Diskette drive SATA DVD±RW Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) None Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 160GB⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™, supports 2nd disk in optional or std <i>X200 UltraBase</i>												
Widescreen display	<i>Some:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, CCFL backlight, 190 nits, 16:10 aspect ratio, 500:1 contrast ratio, FFS, frameless screen <i>Some:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 285 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, frameless screen <i>Touch:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 230 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, MultiView (indoor/outdoor), MultiTouch (touchscreen via finger and pen) <i>All:</i> WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in front base, rotatable dual swivel hinge for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user), buttons on display bottom (power with slide-lock, reset, rotation, menu, all button lock)												
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus												
Graphics controller Graphics - external	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45 External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; <i>Maximum external resolution:</i> 2048x1536@75Hz												
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None None												
Dimensions ³	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33mm <i>without X200 UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33mm												
Weight ² Case Battery - type Battery - life ¹⁰	<i>4-cell:</i> from 3.5 lb (1.6kg); <i>8-cell:</i> from 3.8 lb (1.76kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy Lithium Ion 8-cell <i>4-cell:</i> up to 4.4 hr; <i>8-cell:</i> up to 10.3 hr												
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub), ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)												
Media slice Multicard Reader ExpressCard/54 Ports	<i>Optional: X200 UltraBase media slice</i> (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)												
Mini PCI Express Intel 5100 ²⁸ Intel 5300 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) <i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, AD1984HD codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, microphone input jack, headphone jack												
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant <i>Some:</i> Fingerprint reader on palm rest, swipe sensor, supports the security chip												
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available												
2GB PC3-8500 DDR3 SODIMM 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) USB 2.0 Super Multi-Burner Drive Other accessories on O-X200 sheet	43R1988 43N3406 41N5565	X200 Tablet Li-Ion Battery 8-cell 90W Slim AC/DC Combo Adapter ThinkPad Ultraportable Case Other accessories at lenovo.com/accessories	43R9257 41N8460 41U5062										

Preloaded operating system²⁰
- *Some:* Microsoft® Windows® XP Tablet PC Edition 2005 with Vista® COA
- *Some:* Microsoft Windows Vista Business Edition (32-bit)
❖ Vista Premium logo

Preloaded applications¹⁴ (all OSes; only some listed)
• Rescue and Recovery™
• Access Connections™
• Client Security Solution™
• ThinkVantage System Update
• McAfee VirusScan® Plus with SiteAdvisor™ (30 days of virus definitions)
• PC-Doctor™ (diagnostics)
• Fingerprint Software (fingerprint models)
• Windows Live™ Toolbar and Search
• Microsoft Office 2007 Trial (60-day)
• Roxio® Creator® Business Edition
• Roxio MyDVD® (DVD±RW)

Supports ThinkVantage® technologies

ThinkPad X200 UltraBase™
• Provides desktop expansion and cable management for X200 Series
• Easily connects to the bottom of the X200 Series for traveling
• Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side:
– CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213
– DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214
– Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215
– Serial Hard Drive Ultrabay Slim Adapter II 43R1980
Disks supported (some):
• 250GB FDE 7200 rpm 43N3410
• 320GB Disk 7200 rpm 43N3411

Other features:
• Power button (front)
• Stereo speakers (2 watt)
• Security key lock, security keyhole, and optional security screw
• Analog DB-15 monitor port
• DisplayPort (supports single-link DVI-D via cable 45J7915)
• Four USB 2.0 ports
• Gigabit ethernet port
• Microphone in and headphone out
• Second battery charger
• Requires 65 or 90 watt AC adapter
• 1.6 lb; 730g

65-watt (GMA graphics) AC Adapter
Climate Savers® certified
ENERGY STAR® 4.0-compliant
EPEAT™ Gold rating (LED models)
EPEAT Silver rating (other models)
ROHS-compliant
International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹²
via 800-426-7378

See footnotes for important warranty information
US models announced September 23, 2008

❖ Intel Centrino® 2 with vPro™ technology

ThinkPad® X200 Tablet (7450) - Education (EasyServ)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Widescreen display	Cam	Disk SATA GB ⁸	Optical in rpm	ThinkPad X200 UltraBase	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Mini PCIe UWB or Turbo	Bat- tery Blue/ Fing cells	Workhorse (W) Global (G) Avail date				
7450-2DU	SL9400	1.86	2GB	12.1" WXGA	Cam	160G	5400	Optional	Optional	Intel 5100 ²⁸	WWAN upg	None	Yes	8	Bus 32	W	Oct 08
7450-2KU	SL9400	1.86	2GB	12.1" WXGA	Cam	160G	7200	Optional	Optional	Intel 5100	WWAN upg	None	Yes	8	Ult 32	W	Feb 09
<ul style="list-style-type: none"> • These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty • Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers. • Microsoft® Office Ultimate 2007 Academic Edition: Only valid for sale to students, faculty and staff of accredited educational institutions in the United States. 																	
Positioning Processor	Convertible tablet ultraportable; one spindle Intel® Core™ 2 Duo processor SL9400 with low voltage, dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache											Preloaded operating system²⁰ - Some: Microsoft Windows® Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit) ↳ Vista Premium logo					
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											Preloaded applications¹⁴ (all OSes; only some listed) • 2DU model: Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • 2KU model: Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD)					
Diskette drive SATA DVD±RW Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) None Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781) 160GB⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™, supports 2nd disk in optional or std X200 UltraBase																
Widescreen display	12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, CCFL backlight, 190 nits, 16:10 aspect ratio, 500:1 contrast ratio, FFS, frameless screen, WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in front base, rotatable dual swivel hinge for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user), buttons on display bottom (power with slide-lock, reset, rotation, menu, all button lock) Camera on top of screen, 1.3-megapixel, fixed focus																
Camera	Camera on top of screen, 1.3-megapixel, fixed focus																
Graphics controller	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45																
Graphics - external	External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; <i>Maximum external resolution:</i> 2048x1536@75Hz											Supports ThinkVantage® technologies					
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None None											ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411					
Dimensions ³	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33mm <i>without X200 UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33mm <i>4-cell:</i> from 3.5 lb (1.6kg); <i>8-cell:</i> from 3.88 lb (1.76kg)																
Weight ² Case Battery - type Battery - life ¹⁰	<i>Color:</i> black; <i>Material:</i> magnesium alloy Lithium Ion 8-cell <i>4-cell:</i> up to 4.4 hr; <i>8-cell:</i> up to 10.3 hr																
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub), ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)																
Media slice Multicard Reader ExpressCard slot Ports	<i>Optional: X200 UltraBase media slice</i> (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One ExpressCard/34 or ExpressCard/54 Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)																
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, AD1984HD codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, microphone input jack, headphone jack																
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip																
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available																
1GB PC3-8500 DDR3 SODIMM	43R1987					X200 Tablet Li-Ion Battery 4-cell					43R9256						
2GB PC3-8500 DDR3 SODIMM	43R1988					X200 Tablet Li-Ion Battery 8-cell					43R9257						
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406					90W Slim AC/DC Combo Adapter					41N8460						
320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3403					ThinkPad X200 Tablet Sleeve					43R9115						
USB 2.0 Ultra Secure Memory Key 8GB	45J5918					ThinkPad Ultraportable Case					41U5062						
USB 2.0 Portable Secure 320GB Hard Disk	43R2019					ThinkVision® L2240p Wide 22" Monitor					4422HB6						
ThinkPad X200 UltraBase	43R8781					ThinkVision L2440x Wide 24" Monitor					4421HB2						
Other accessories on O-X200 sheet												Other accessories at lenovo.com/accessories					
											65-watt (GMA graphics) AC Adapter Climate Savers® certified ENERGY STAR® 4.0-compliant EPEAT Silver rating ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378						

See footnotes for important warranty information

Intel Centrino® 2 with vPro™ technology

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US model announced February 17, 2009; previous model on September 23, 2008

(CML1-4) February 2009

ThinkPad® X200 Tablet (7453) - Education (Onsite)

Personal Systems Reference (PSREF)

Type-model	Proc- essor	GHz	Memory	Widescreen display	Cam	Disk SATA	Optical in	ThinkPad X200	Mini PCIe 802.11	Mini PCIe WWAN	Mini PCIe UWB	Bat- tery	Workhorse (W)	Global (G)	Avail date
7453-2DU	SL9400	1.86	2GB	12.1" WXGA	Cam	160G 5400	Optional	Optional	Intel 5100 ²⁸	WWAN upg	None	Yes	8	Bus 32	W Oct 08
7453-2KU	SL9400	1.86	2GB	12.1" WXGA	Cam	160G 7200	Optional	Optional	Intel 5100	WWAN upg	None	Yes	8	Ult 32	W Feb 09
<ul style="list-style-type: none"> • These models have a limited onsite service²⁴ 3-year limited warranty • Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers. • Microsoft® Office Ultimate 2007 Academic Edition: Only valid for sale to students, faculty and staff of accredited educational institutions in the United States. 															
Positioning Processor	Convertible tablet ultraportable; one spindle Intel® Core™ 2 Duo processor SL9400 with low voltage, dual-core, Intel HD Boost, 1066MHz system bus, and 6MB L2 cache											Preloaded operating system²⁰ - Some: Microsoft Windows® Vista® Business Edition (32-bit) - Some: Microsoft Windows Vista Ultimate Edition (32-bit) ◇ Vista Premium logo			
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available											◇ Vista Premium logo			
Diskette drive SATA DVD±RW Ultrabay Slim SATA disk	None (use optional USB-based diskette drive) None Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781) 160GB⁸ (5400 or 7200 rpm) / SATA 1.5Gb/s, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™, supports 2nd disk in optional or std X200 UltraBase											Preloaded applications¹⁴ (all OSes; only some listed) • 2DU model: Education software - Microsoft Office OneNote® 2007 (and CD) - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premier Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • 2KU model: Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD)			
Widescreen display	12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, CCFL backlight, 190 nits, 16:10 aspect ratio, 500:1 contrast ratio, FFS, frameless screen, WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in front base, rotatable dual swivel hinge for tablet mode (portrait or landscape) or picture frame mode (keyboard faces away from user), buttons on display bottom (power with slide-lock, reset, rotation, menu, all button lock)														
Camera	Camera on top of screen, 1.3-megapixel, fixed focus														
Graphics controller	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45														
Graphics - external	External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; <i>Maximum external resolution:</i> 2048x1536@75Hz											Supports ThinkVantage® technologies			
Keyboard TrackPoint® Touch pad ThinkLight™	Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass None None											ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 Series • Easily connects to the bottom of the X200 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: - CD-RW/DVD-ROM Ultrabay Slim SATA 1.5Gb/s 43N3213 - DVD Burner Ultrabay Slim SATA 1.5Gb/s 43N3214 - Blu-ray™ Burner Ultrabay Slim SATA 1.5Gb/s 43N3215 - Serial Hard Drive Ultrabay Slim Adapter II 43R1980 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411			
Dimensions ³	<i>without X200 UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33mm <i>without X200 UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33mm <i>4-cell:</i> from 3.5 lb (1.6kg); <i>8-cell:</i> from 3.88 lb (1.76kg)														
Weight ² Case Battery - type Battery - life ¹⁰	<i>Color:</i> black; <i>Material:</i> magnesium alloy Lithium Ion 8-cell <i>4-cell:</i> up to 4.4 hr; <i>8-cell:</i> up to 10.3 hr														
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub), ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC)														
Media slice Multicard Reader ExpressCard slot Ports	<i>Optional: X200 UltraBase media slice</i> (see right side) 5-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) One ExpressCard/34 or ExpressCard/54 Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)														
Mini PCI Express Intel 5100 ²⁸ WWAN upg 2G Turbo UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	Three Mini PCI Express slots 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None 56K V.92 ⁶ modem Bluetooth 2.0 wireless, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT 4.0) High Definition (HD) Audio, AD1984HD codec / stereo speakers, 2 watt / volume up, down, mute buttons / dual array microphone, microphone input jack, headphone jack											Other features: • Power button (front) • Stereo speakers (2 watt) • Security key lock, security keyhole, and optional security screw • Analog DB-15 monitor port • DisplayPort (supports single-link DVI-D via cable 45J7915) • Four USB 2.0 ports • Gigabit ethernet port • Microphone in and headphone out • Second battery charger • Requires 65 or 90 watt AC adapter • 1.6 lb; 730g			
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip														
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available											65-watt (GMA graphics) AC Adapter Climate Savers® certified ENERGY STAR® 4.0-compliant EPEAT Silver rating ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
2GB PC3-8500 DDR3 SODIMM	43R1988					X200 Tablet Li-Ion Battery 4-cell					43R9256				
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406					X200 Tablet Li-Ion Battery 8-cell					43R9257				
320GB Disk SATA 1.5Gb/s (5400 rpm)	43N3403					90W Slim AC/DC Combo Adapter					41N8460				
USB 2.0 Ultra Secure Memory Key 8GB	45J5918					ThinkPad X200 Tablet Sleeve					43R9115				
USB 2.0 Portable Secure 320GB Hard Disk	43R2019					ThinkPad Ultraportable Case					41U5062				
ThinkPad X200 UltraBase	43R8781					ThinkVision® L2440x Wide 24" Monitor					4421HB2				
Other accessories on O-X200 sheet												Other accessories at lenovo.com/accessories			

See footnotes for important warranty information

◇ Intel Centrino® 2 with vPro™ technology

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Ⓢ US model announced February 17, 2009; previous model on September 23, 2008

(CML1-5) February 2009

Partial list of accessories supported on:

• ThinkPad X200 Tablet originally announced on Sep 23, 2008

Memory

1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	ann	11/04/08
1GB PC3-8500 DDR3 SODIMM	43R1987	ann	08/05/08
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	ann	11/04/08
2GB PC3-8500 DDR3 SODIMM	43R1988	ann	08/05/08

Ultrabay Slim 9.5mm

Most Ultrabay Slim accessories supported in ThinkPad X200 UltraBase

Storage and removable storage

160GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	41N5692	ann	03/20/07
160GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	41N5737	ann	10/16/07
250GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43R8152	ann	01/15/08
250GB Disk FDE SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3410	ann	01/20/09
320GB Disk SATA 1.5Gb/s (5400 rpm) ⁴¹	43N3403	ann	08/05/08
320GB Disk SATA 1.5Gb/s (7200 rpm) ⁴¹	43N3411	ann	01/20/09

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter 43R1980 in X200 UltraBase (43R8781)

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ann	08/26/08
USB 2.0 Essential Memory Key 2GB	41U4944	ann	01/23/07
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 Security Memory Key 2GB	41U5119	ann	07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann	07/17/07
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 Portable Diskette Drive	05K9276	ann	06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann	01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann	09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann	01/23/07

Wireless WAN (Mini PCI Express)

Verizon WWAN UNDP Broadband Mini PCIe ⁴²	43R9151	ann	08/05/08
AT&T® WWAN HSPA Broadband Mini PCIe ⁴²	43R9152	ann	08/26/08

⁴² Supported only in select models

ThinkPad Expansion

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann	02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann	09/20/05
ThinkPad X200 UltraBase	43R8781	ann	08/05/08

Keyboard

TrackPoint Cap Collection	73P2698	ann	12/16/03
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04
USB Keyboard with UltraNav	31P8950	ann	01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann	04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05

Mouse

Optical Wheel Mouse (USB)	06P4069	ann	05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann	08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann	06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann	11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann	11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann	01/22/08

Security

Kensington® Cable Lock from Lenovo	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
PC Card Gemplus Smart Card Reader	41N3004	ann	12/13/05
ExpressCard Gemplus Smart Card Reader	41N3043	ann	06/27/06

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann	06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann	08/29/06

Tablet

ThinkPad Digitizer Pen	41U3143	ann	11/14/06
ThinkPad Tablet Tether (3-pack)	41U4820	ann	11/14/06

Batteries

X200 Tablet Li-Ion Battery 4-cell	43R9256	ann	09/23/08
X200 Tablet Li-Ion Battery 8-cell	43R9257	ann	09/23/08
ThinkPad External Battery Charger ⁴⁴	40Y7625	ann	09/20/05

⁴⁴ Requires the ThinkPad 90W AC Adapter 40Y7659 (adapter provided with some systems).

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter	40Y7696	ann	01/05/06
ThinkPad 90W AC Adapter	40Y7659	ann	09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460	ann	11/27/07

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

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460

•Dual (ThinkPad+Phone) Charging Y-Cable	41R4345	ann	12/18/07
•BlackBerry charge tip (L8a)	41R4478	ann	12/18/07

More information at www.lenovopowertips.com

Carrying Cases

X200 Tablet:

ThinkPad X200 Tablet Sleeve	43R9115	ann	09/23/08
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Up to 13.3" widescreen models:

ThinkPad Ultraportable Case	41U5062	ann	05/13/08
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Up to 14.1" widescreen models:

ThinkPad Expander Case	43R9118	ann	06/24/08
ThinkPad Women's Microfiber Tote	22P8855		
ThinkPad Women's Leather Trim Tote	22P8856		
ThinkPad Convertible Carrying Case	22P8860		
ThinkPad Women's Executive Leather Tote	22P8857		
Women's Executive Red Leather Tote	22P8858		

Up to 15.4" widescreen models:

Lenovo Carrying Case - Messenger Max	41U5253	ann	05/01/07
Lenovo Carr Case - Performance Backpack	41U5254	ann	05/01/07
Lenovo Standard Case	45K1697	ann	11/25/08
Lenovo Standard Backpack	45K1698	ann	11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann	02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann	08/12/08
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Lenovo luxury cases at www.lenovoluxurycases.com

Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann	04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann	09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann	11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann	09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann	04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann	09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann	09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann	09/17/08

Monitor Accessories⁴⁶

DisplayPort to Single-link DVI-D Cable	45J7915	ann	08/05/08
ThinkVision USB Soundbar	40Y7616	ann	08/23/05
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann	01/05/06
Radial Arm	19K4464	ann	05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkPad X300, X301



Lenovo ThinkPad X300, X301



Lenovo ThinkPad X300, X301



Lenovo ThinkPad X300, X301



Lenovo ThinkPad X300, X301



Lenovo ThinkPad X300, X301



Lenovo ThinkPad X300, X301
(left side)



Lenovo ThinkPad X300, X301
(rear)

ThinkPad® X300 (6478) - TopSeller

Type-model	Low Voltage processor	GHz	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ SSD	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB wireless	Finger print reader	Battery cells	Preload	Avail date
6478-1HU	SL7100	1.20	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	* Intel 11n ²⁸	WWAN upg		Fing	3	Business 32	Feb 08
6478-1JU	SL7100	1.20	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	* Intel 11n	Verizon+GPS	UWB	Fing	6	Business 32	Feb 08
6478-1TU	SL7100	1.20	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	* Intel 11n	WWAN upg		Fing	3	XP Pro	Feb 08
6478-1VU	SL7100	1.20	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	* Intel 11n	Verizon+GPS		Fing	6	XP Pro	Feb 08

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **Thinnest (starting at under .75") and lightest (starting at 2.93 lb) notebook**
- **Latest connectivity options including WLAN, WWAN, UWB, and GPS**
- **Cutting edge technologies including LED backlight, Solid State Drive, and ultrathin DVD**
- **Environmentally-friendly EPEAT Gold rating**

Positioning	<i>Thinnest and lightest; two spindles</i>										Preloaded operating system²⁰			
Processor	Intel® Core™ 2 Duo processor SL7100 with low voltage, dual-core , Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache										- Some: Microsoft® Windows® XP Professional with Vista® COA			
Memory	2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										- Some: Microsoft Windows Vista Business Edition (32-bit) ◇ <i>Vista models:</i> Vista Basic logo			
Diskette drive	None (use optional USB-based diskette drive)										Preloaded applications¹⁴ (all OSes)			
EIDE DVD±RW	Ultrathin DVD burner, 7mm high, removable from Option Bay, tray-in										• Rescue and Recovery™			
Option Bay	Modular bay for devices (DVD burner, battery), 7mm high										• Access Connections™			
Serial ATA disk	64GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s (system limited to SATA 1.5Gb/s), 1.8" wide, 8mm high, removable, upgradable, shock mounted storage										• Client Security Solution™			
Widescreen display	13.3" (338mm) WXGA+ (1440x900) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 250:1 contrast ratio										• ThinkVantage Productivity Center			
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0										• ThinkVantage System Update			
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GS965, external monitor support via analog VGA DB-15 connector, no DVI-out support										• System Migration Assistant			
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, illuminated buttons (Power, ThinkVantage, Mute, and CapsLk)										• Norton Internet Security (90 days of virus definitions)			
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass										• Diskeeper™ Home			
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label										• PC-Doctor™ (diagnostics)			
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										• ThinkPad Utilities (Power Manager and Presentation Director)			
Dimensions ³	3-cell: (WxDxH): 12.5" x 9.09" x 0.73-0.92"; 318mm x 231mm x 18.6-23.4mm										• Adobe® Reader			
Weight ²	6-cell: (WxDxH): 12.5" x 9.09" x 0.85-0.92"; 318mm x 231mm x 18.6-25.9mm										• Windows Live™ Toolbar			
Case material	3-cell: from 3.16 lb (1.43kg); 6-cell: from 3.35 (1.52kg)										• Windows Live Search			
Battery - type	<i>Color:</i> black; <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy										• Picasa from Google			
Battery - life ¹⁰	Lithium Polymer 3-cell or Lithium Ion 6-cell ; supports optional Option Bay 3-cell battery (for two batteries)										• Fingerprint Software (fingerprint models)			
Chipset	3-cell: up to 4.3 hr; 6-cell: up to 6.5 hr; 6-cell and Option Bay battery: up to 10 hr										• Microsoft Office 2007 Trial (60-day)			
ExpressCard slot	Mobile Intel GS965 Express Chipset (Graphics Memory Controller Hub);										• Sonic RecordNow and Drive Letter Access (DVD±RW)			
Multicard Reader	None										• Corel® WinDVD® (DVD±RW)			
Ports	None										• Corel WinDVD Creator (XP Pro DVD±RW models)			
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios										Supports ThinkVantage® technologies			
Mini PCI Express	Three Mini PCI Express slots / 802.11 and WWAN are customer upgradable										65-watt (GMA graphics) AC Adapter			
Intel 11n ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)										Next Generation ThinkPad Roll Cage (in display cover)			
WWAN upg	Some: Wireless WAN upgradable, requires Verizon® EV-DO Rev. A Mini PCIe (43R1818)										EPEAT™ Gold rating			
Verizon+GPS ¹⁶	Some: Wireless WAN with GPS, Sierra Wireless 1xEV-DO Network Adapter, Mini PCIe adapter, EV-DO Rev. A, service contract required with Verizon®										ENERGY STAR® 4.0-compliant			
Turbo Memory	None										RoHS-compliant			
UWB	Some: Wireless USB based on Ultra-Wideband (UWB), Half-Mini PCIe adapter										International Warranty Service ¹⁷			
Modem	None (use optional USB-based modem)										24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378			
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH, LED indicator										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD			
Ethernet	Gigabit ethernet on systemboard, Intel 82566MM Nineveh (PHY), PCIe x1, PXE										ThinkPlus 3-year LOR 9x5 NBD			
Intel AMT	Intel Active Management Technology (IAMT)										ThinkPlus 4-year LOR 9x5 NBD			
Audio support	High Definition (HD) Audio, AD1984A codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack										ThinkPlus 5-year LOR 9x5 NBD			
Security	Power-on password, hard disk password, supervisor password, security keyhole										ThinkPlus 4-year P&L P/U Depot			
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant										ThinkPlus 5-year P&L P/U Depot			
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip										ThinkPlus 4-year P&L P/U Depot			
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty			
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999				X300 LiPolymer Battery 3-cell				43R1965					
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000				X300 Li-Ion Battery 6-cell				43R1967					
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406				X300 LiPolymer Bay Battery 3-cell				43R1966					
USB 2.0 Portable Secure 320GB Hard Disk	43R2019				90W Slim AC/DC Combo Adapter				41N8460					
USB 2.0 Super Multi-Burner Drive	41N5565				ThinkPad Executive Leather Case				43R2480					
USB 2.0 Lenovo Enhanced Port Replicator	43R8770				ThinkPad Ultraportable Case				41U5062					
ThinkPad Adjustable Notebook Stand	40Y7676				ThinkVision® L2440p Wide 24" Monitor				4420HB2					
Other accessories on O-X300 sheet											Other accessories at lenovo.com/accessories			

See footnotes for important warranty information
US models announced February 26, 2008

* Intel Centrino with vPro™ technology

Type-model	Low Voltage processor	GHz	Memory	Wide-screen display	Camera	Disk SATA GB ² SSD	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB wireless	Finger print reader	Battery cells	Vista preload	Avail date
6477-1TU	SL7100	1.20	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	* Intel 11n ²⁸	WWAN upg		Finger	6	Business 32	Feb 08
6477-1UU	SL7100	1.20	4GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	* Intel 11n	WWAN upg		Finger	6	Ultimate 32	Feb 08
6477-1ZU	SL7100	1.20	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	* Intel 11n	Verizon+GPS ¹⁶	UWB	Finger	6	Business 32	Feb 08
6477-01U	SL7100	1.20	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	* Intel 11n	AT&T ²³	UWB	Finger	6	Business 32	Apr 08

Italic MTM: not a base model for building a custom model

- **Thinnest (starting at under .75") and lightest (starting at 2.93 lb) notebook**
- **Latest connectivity options including WLAN, WWAN, UWB, and GPS**
- **Cutting edge technologies including LED backlight, Solid State Drive, and ultrathin DVD**
- **Environmentally-friendly EPEAT Gold rating**

Positioning Processor	<i>Thinnest and lightest; two spindles</i> Intel® Core™ 2 Duo processor SL7100 with low voltage, dual-core , Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache	Preloaded operating system²⁰ - <i>Some:</i> Microsoft Windows Vista® Business Edition (32-bit) - <i>Some:</i> Microsoft Windows Vista Ultimate Edition (32-bit) ⇨ <i>2GB Vista models:</i> Vista Basic logo ⇨ <i>1UU model:</i> Vista Premium logo Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security (90 days of virus definitions) • Diskeeper™ Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • EarthLink Trial (Vista Ultimate model) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW) • Corel WinDVD Creator (XP Pro DVD±RW models)	
Memory	2GB or 4GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available		
Diskette drive	None (use optional USB-based diskette drive)		
EIDE DVD±RW	Ultrathin DVD burner, 7mm high, removable from Option Bay, tray-in		
Option Bay	Modular bay for devices (DVD burner, battery), 7mm high		
Serial ATA disk	64GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s (system limited to SATA 1.5Gb/s), 1.8" wide, 8mm high, removable, upgradable, shock mounted storage		
Widescreen display	13.3" (338mm) WXGA+ (1440x900) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 250:1 contrast ratio		
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0		
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GS965, external monitor support via analog VGA DB-15 connector, no DVI-out support		
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, illuminated buttons (Power, ThinkVantage, Mute, and CapsLk)		
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass		
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions		
Dimensions ³	<i>3-cell: (WxDxH): 12.5" x 9.09" x 0.73-0.92"; 318mm x 231mm x 18.6-23.4mm</i> <i>6-cell: (WxDxH): 12.5" x 9.09" x 0.85-0.92"; 318mm x 231mm x 18.6-25.9mm</i>		
Weight ²	<i>3-cell: from 3.16 lb (1.43kg); 6-cell: from 3.35 (1.52kg)</i>		
Case material	<i>Color:</i> black; <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy		
Battery - type	Lithium Polymer 3-cell or Lithium Ion 6-cell ; supports optional Option Bay 3-cell battery (for two batteries)		
Battery - life ¹⁰	<i>3-cell:</i> up to 4.3 hr; <i>6-cell:</i> up to 6.5 hr; <i>6-cell and Option Bay battery:</i> up to 10 hr		
Chipset	Mobile Intel GS965 Express Chipset (Graphics Memory Controller Hub); ICH8M-SFF-Enhanced I/O Controller Hub (SATA 1.5Gb/s, ATA-100 EIDE, PCI Express ⁹ x1, USB, LPC bus, Bluetooth, fingerprint) / LPC bus (Atmel® 97SC3203 TPM)		
ExpressCard slot	None		
Multicard Reader	None		
Ports	Three USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)		
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios		
Mini PCI Express	Three Mini PCI Express slots / 802.11 and WWAN are customer upgradable		
Intel 11n ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)		
WWAN upg	<i>Some:</i> Wireless WAN upgradable, requires Verizon® EV-DO Rev. A Mini PCIe (43R1818)		
Verizon+GPS ¹⁶	<i>Some:</i> Wireless WAN with GPS, Sierra Wireless 1xEV-DO Network Adapter, Mini PCIe adapter, EV-DO Rev. A, service contract required with Verizon		
AT&T ²³	<i>Some:</i> Wireless WAN, GPRS/EDGE/UMTS/HSDPA support, Mini PCIe adapter and SIM, service contract required with AT&T®		
Turbo Memory	None		
UWB	<i>Some:</i> Wireless USB based on Ultra-Wideband (UWB), Half-Mini PCIe adapter		
Modem	None (use optional USB-based modem)		
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH, LED indicator		
Ethernet	Gigabit ethernet on systemboard, Intel 82566MM Nineveh (PHY), PCIe x1, PXE		
Intel AMT	Intel Active Management Technology (IAMT)		
Audio support	High Definition (HD) Audio, AD1984A codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack		
Security	Power-on password, hard disk password, supervisor password, security keyhole		
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant		
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip		
Limited warranty ¹²	3-years/1-yr battery - EasyServ™ ¹⁹ depot repair service / service upgrades ²² available		
1GB PC2-5300 DDR2 SODIMM	40Y7734	X300 Li-Ion Battery 6-cell	43R1967
2GB PC2-5300 DDR2 SODIMM	40Y7735	X300 LiPolymer Bay Battery 3-cell	43R1966
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ThinkPad 90W AC Adapter	40Y7659
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ThinkPad Ultraportable Case	41U5062
USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ThinkVision® L2440x Wide 24" Monitor	4421HB2
Other accessories on O-X300 sheet		Other accessories at lenovo.com/accessories	

See footnotes for important warranty information

* Intel Centrino with vPro™ technology

Ⓢ US model announced April 14, 2008; previous models on February 26, 2008

Type-model	Low Voltage processor GHz	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ SSD	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB wireless	Finger print reader	Battery cells	Vista preload	Avail date
4052-1TU	SL7100	1.20	2GB	13.3" WXGA+	Cam	64GB	SSD DVD±RW	*Intel 11n ²⁸	WWAN upg	None	Finger	6	Business 32 P Apr 08
<ul style="list-style-type: none"> • This model is part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty • Thinnest (starting at under .75") and lightest (starting at 2.93 lb) notebook • Latest connectivity options including WLAN, WWAN, UWB, and GPS • Cutting edge technologies including LED backlight, Solid State Drive, and ultrathin DVD • Environmentally-friendly EPEAT Gold rating 													
Positioning Processor	<i>Thinnest and lightest; two spindles</i> Intel® Core™ 2 Duo processor SL7100 with low voltage, dual-core , Intel 64 Technology, Enhanced Intel SpeedStep® technology ¹ , Intel Dynamic Acceleration, Execute Disable Bit, Virtualization Technology, 800MHz system bus, and 4MB shared L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® Business Edition (32-bit) ⇨ Vista Basic logo		
Memory	2GB std / 4GB max ⁷ / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available										Preloaded applications¹⁴ • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • System Migration Assistant • Norton Internet Security (90 days of virus definitions) • Diskeeper™ Home • PC-Doctor™ (diagnostics) • ThinkPad Utilities (Power Manager and Presentation Director) • Adobe® Reader • Windows Live™ Toolbar • Windows Live Search • Picasa from Google • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • EarthLink Trial (Vista Ultimate model) • Sonic RecordNow and Drive Letter Access (DVD±RW) • Corel® WinDVD® (DVD±RW)		
Diskette drive	None (use optional USB-based diskette drive)												
EIDE DVD±RW	Ultrathin DVD burner, 7mm high, removable from Option Bay, tray-in												
Option Bay	Modular bay for devices (DVD burner, battery), 7mm high												
Serial ATA disk	64GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s (system limited to SATA 1.5Gb/s), 1.8" wide, 8mm high, removable, upgradable, shock mounted storage												
Widescreen display	13.3" (338mm) WXGA+ (1440x900) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 250:1 contrast ratio												
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0												
Graphics	Intel Graphics Media Accelerator X3100 (GMA X3100) , integrated in GS965, external monitor support via analog VGA DB-15 connector, no DVI-out support												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, illuminated buttons (Power, ThinkVantage, Mute, and CapsLk)												
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass												
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label												
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	<i>3-cell:</i> (WxDxH): 12.5" x 9.09" x 0.73-0.92"; 318mm x 231mm x 18.6-23.4mm <i>6-cell:</i> (WxDxH): 12.5" x 9.09" x 0.85-0.92"; 318mm x 231mm x 18.6-25.9mm												
Weight ²	<i>3-cell:</i> from 3.16 lb (1.43kg); <i>6-cell:</i> from 3.35 (1.52kg)												
Case material	<i>Color:</i> black; <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy												
Battery - type	Lithium Ion 6-cell , supports optional Option Bay 3-cell battery (for two batteries)												
Battery - life ¹⁰	<i>3-cell:</i> up to 4.3 hr; <i>6-cell:</i> up to 6.5 hr; <i>6-cell and Option Bay battery:</i> up to 10 hr												
Chipset	Mobile Intel GS965 Express Chipset (Graphics Memory Controller Hub); ICH8M-SFF-Enhanced I/O Controller Hub (SATA 1.5Gb/s, ATA-100 EIDE, PCI Express® x1, USB, LPC bus, Bluetooth, fingerprint) / LPC bus (Atmel® 97SC3203 TPM)												
ExpressCard slot	None												
Multicard Reader	None												
Ports	Three USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)												
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios										Supports ThinkVantage® technologies		
Mini PCI Express	Three Mini PCI Express slots / 802.11 and WWAN are customer upgradable												
Intel 11n ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel Wireless WiFi Link 4965AGN, MIMO 2x3 (Kedron)										65-watt (GMA graphics) AC Adapter Next Generation ThinkPad Roll Cage (in display cover) EPEAT™ Gold rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378		
WWAN upg	Wireless WAN upgradable, requires Verizon® EV-DO Rev. A Mini PCIe (43R1818)												
Turbo Memory	None										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175		
UWB	None												
Modem	None (use optional USB-based modem)										ThinkPlus 3-year LOR 9x5 NBD 41C9176		
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH, LED indicator												
Ethernet	Gigabit ethernet on systemboard, Intel 82566MM Nineveh (PHY), PCIe x1, PXE										ThinkPlus 4-year LOR 9x5 NBD 41C9177		
Intel AMT	Intel Active Management Technology (IAMT)												
Audio support	High Definition (HD) Audio, AD1984A codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack										ThinkPlus 5-year LOR 9x5 NBD 41C9179		
Security	Power-on password, hard disk password, supervisor password, security keyhole												
Security chip	Trusted Platform Module, Atmel chip, TCG 1.2-compliant										ThinkPlus 4-year P&L P/U Depot 41C9178		
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip												
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available										ThinkPlus 5-year P&L P/U Depot 41C9180		
1GB PC2-5300 DDR2 SODIMM	40Y7734			X300 LiPolymer Battery 3-cell			43R1965						
2GB PC2-5300 DDR2 SODIMM	40Y7735			X300 Li-Ion Battery 6-cell			43R1967						
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406			X300 LiPolymer Bay Battery 3-cell			43R1966						
USB Portable Diskette Drive	05K9276			ThinkPad 90W AC Adapter			40Y7659						
USB 2.0 Lenovo Modem	43R1814			90W Slim AC/DC Combo Adapter			41N8460						
USB 2.0 Portable Secure 320GB Hard Disk	43R2019			ThinkPad Executive Leather Case			43R2480						
USB 2.0 Super Multi-Burner Drive	41N5565			ThinkPad Ultraportable Case			41U5062						
USB 2.0 Lenovo Enhanced Port Replicator	43R8770			ThinkVision® L2240p Wide 22" Monitor			4422HB6						
ThinkPad Adjustable Notebook Stand	40Y7676			ThinkVision L2440x Wide 24" Monitor			4421HB2						
Other accessories on O-X300 sheet	Other accessories at lenovo.com/accessories										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty		

See footnotes for important warranty information
US model announced April 8, 2008

* Intel Centrino with vPro™ technology

ThinkPad® X301 (2776) - TopSeller

Type-model	Low Voltage proc- essor	GHz	Memory	Wide- screen display	Cam- era	Disk SATA GB ⁸	EIDE SSD/RPM optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB or Turbo	Blue/ Fing cells	Bat- tery Intel AMT	Preload	Avail date
2776-TMU	SU9400	1.40	4GB	13.3" WXGA+	Cam	128GB SSD	DVD±RW	Intel 5100 ²⁸	AT&T ²³		Yes	6	Bus 32	Aug 08
2776-L9U	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	Intel 5100	WWAN upg		Yes	3	Bus 32	Aug 08
2776-LAU	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	Intel 5100	AT&T		Yes	6	Bus 32	Aug 08
2776-P4U	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	Intel 5100	WWAN upg		Yes	3	XP Pro	Sep 08
2776-P5U	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	Intel 5100	AT&T		Yes	6	XP Pro	Sep 08
2776-P6U	SU9400	1.40	4GB	13.3" WXGA+	Cam	128GB SSD	DVD±RW	Intel 5100	AT&T		Yes	6	XP Pro	Sep 08
2776-V1U	SU9400	1.40	2GB	13.3" WXGA+	Cam	128GB SSD	DVD±RW	Intel 5300 ²⁸	WWAN upg		Yes	6	Bus 32	Oct 08
2776-V2U	SU9400	1.40	2GB	13.3" WXGA+	Cam	128GB SSD	DVD±RW	Intel 5300	WWAN upg		Yes	6	AMT	Bus 64 Nov 08
2776-TKU	SU9400	1.40	2GB	13.3" WXGA+	Cam	80GB SSD	DVD±RW	Intel 5100	WWAN upg		Yes	3	AMT	Bus 32 Nov 08
2776-TLU	SU9400	1.40	2GB	13.3" WXGA+	Cam	80GB SSD	DVD±RW	Intel 5100	AT&T		Yes	6	AMT	Bus 32 Nov 08
2776-H1U	SU9400	1.40	2GB	13.3" WXGA+	Cam	120GB 5400	DVD±RW	Intel 5100	WWAN upg	2G Turbo	Yes	6	AMT	Bus 32 Dec 08

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

Positioning Processor	<i>Thin and light; two spindles</i> Intel® Core™ 2 Duo processor SU9400 with ultra low voltage, dual-core , Intel HD Boost, 800MHz system bus, and 3MB L2 cache	Preloaded operating system²⁰ - <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA - <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit) - <i>Some:</i> Microsoft Windows Vista Business Edition (64-bit) ⇨ Vista Premium logo Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ (not on model V2U) • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Windows Live Mail (model V2U) • Windows Live Messenger (model V2U) • Windows Live Photo Gallery (model V2U) • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)
Memory	2GB or 4GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available	
Diskette drive	None (use optional USB-based diskette drive)	
EIDE DVD±RW	Ultrathin DVD burner, 7mm high, removable from Option Bay, tray-in	
Option Bay	Modular bay for devices (DVD burner, battery), 7mm high	
Serial ATA disk	<i>Some:</i> 64GB⁸ 80GB, or 128GB Solid State Drive (SSD) / SATA 3.0Gb/s <i>Some:</i> 120GB⁸ (5400 rpm) / SATA 1.5Gb/s, Active Protection System™ <i>All:</i> 1.8" wide, 8mm high, removable, upgradable, shock mounted storage	
Widescreen display	13.3" (338mm) WXGA+ (1440x900) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 250:1 contrast ratio	
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45 External monitor support via analog VGA DB-15 connector or DisplayPort; <i>Maximum external resolution:</i> 2048x1536@75Hz (VGA, DisplayPort)	
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, illuminated buttons (Power, ThinkVantage, Mute, and CapsLk)	
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label	
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³	<i>3-cell:</i> (WxDxH): 12.5" x 9.09" x 0.73-0.92"; 318mm x 231mm x 18.6-23.4mm <i>6-cell:</i> (WxDxH): 12.5" x 9.09" x 0.85-0.92"; 318mm x 231mm x 18.6-25.9mm <i>3-cell:</i> from 3.16 lb (1.43kg); <i>6-cell:</i> from 3.35 (1.52kg)	
Weight ²		
Case color	Black	
Case material	<i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy	
Battery - type	Lithium Polymer 3-cell or Lithium Ion 6-cell ; supports optional Option Bay 3-cell battery (for two batteries)	
Battery - life ¹⁰	<i>3-cell:</i> up to 3.4 hr; <i>6-cell:</i> up to 5.5 hr; <i>6-cell and Option Bay battery:</i> up to 9.5 hr	
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub); ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), Marvell® SATA-to-EIDE bridge (for optical)	
ExpressCard	None	
Multicard reader	None	
Ports	Three USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios	
Mini PCI Express	Three Mini PCI Express slots / 802.11 and WWAN are customer upgradable	
Intel 5100 ²⁸	<i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)	
Intel 5300 ²⁸	<i>Some:</i> 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)	
WWAN upg	<i>Some:</i> Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)	
AT&T ²³	<i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T	
Turbo Memory UWB	<i>Some:</i> Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator	
Modem	None (use optional USB-based modem)	
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH, LED indicator	
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1	
Intel AMT	<i>Some:</i> Intel Active Management Technology (IAMT 4.0)	
Audio support	High Definition (HD) Audio, AD1984A codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant	
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip	
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available	
1GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2045	X300 Li-Ion Battery 6-cell	43R1967
2GB PC3-8500 DDR3 SODIMM (TopSeller) 43R2046	90W Slim AC/DC Combo Adapter	41N8460
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 43N3406	ThinkPad Ultraportable Case	41U5062
USB 2.0 Portable Secure 320GB Hard Disk 43R2019	ThinkVision® L2440p Wide 24" Monitor	4420HB2
Other accessories on O-X300 sheet	Other accessories at lenovo.com/accessories	

See footnotes for important warranty information

⇨ Intel Centrino® 2 with vPro™ technology

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Ⓢ US models announced Nov18, Nov 25, or December 2, 2008; previous models on Aug 26, Sep 2, or Oct 14, 2008

(KOD2-1) December 2008

Type-model	Low Voltage processor	GHz	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ SSD	EIDE optical or battery	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB wireless	Blue/ Fing	Battery cells	Workhorse (W) Global (G) Avail date
2774-17U	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	Intel 5100 ²⁸	WWAN upg	None	Yes	3	Bus 32 G Aug 08
2774-18U	SU9400	1.40	4GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	Intel 5100	WWAN upg	None	Yes	6	Bus 32 G Aug 08
2774-LCU	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	Battery	Intel 5100	WWAN upg	None	Yes	6+3	Bus 32 Aug 08
2774-LDU	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	Intel 5100	WWAN upg	None	Yes	3	XP Pro Aug 08
2774-PBU	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	Battery	Intel 5100	WWAN upg	None	Yes	6+3	XP Pro Sep 08
2774-PCU	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	Intel 5100	WWAN upg	None	Yes	3	XP Pro Sep 08
2774-21U	SU9400	1.40	2GB	13.3" WXGA+	Cam	80GB SSD	Battery	Intel 5100	WWAN upg	None	Yes	6	Bus 32 Nov 08
2774-23U	SU9400	1.40	2GB	13.3" WXGA+	Cam	80GB SSD	DVD±RW	Intel 5100	Verizon ¹⁶	None	Yes	6	Bus 32 Nov 08
2774-HBU	SU9400	1.40	2GB	13.3" WXGA+	Cam	128G SSD	DVD±RW	WiMAX	WWAN upg	None	Yes	3	Bus 32 Dec 08
2774-HCU	SU9400	1.40	4GB	13.3" WXGA+	Cam	128G SSD	DVD±RW	WiMAX	WWAN upg	None	Yes	6	Bus 32 Dec 08
2774-HDU	SU9400	1.40	2GB	13.3" WXGA+	Cam	128G SSD	DVD±RW	Intel 5100	WWAN upg	None	Yes	6	Bus 32 Dec 08

• Latest connectivity options including WLAN, WWAN, UWB, and GPS
 • Cutting edge technologies including LED backlight, Solid State Drive, and ultrathin DVD

Positioning Processor	<i>Thin and light; two spindles</i> Intel® Core™ 2 Duo processor SU9400 with ultra low voltage, dual-core, Intel HD Boost, 800MHz system bus, and 3MB L2 cache	Preloaded operating system²⁰ - Some: Microsoft® Windows® XP Professional with Vista® COA - Some: Microsoft Windows Vista Business Edition (32-bit) ⇨ Vista Premium logo Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)
Memory	2GB or 4GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available	
Diskette drive	None (use optional USB-based diskette drive)	
EIDE DVD±RW	<i>Some:</i> Ultrathin DVD burner, 7mm high, removable from Option Bay, tray-in	
Option Bay battery	<i>Some:</i> 3-cell Li-Polymer second battery in Option Bay	
Option Bay	Modular bay for devices (DVD burner, battery), 7mm high	
Serial ATA disk	64GB⁸, 80GB, or 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high, removable, upgradable, shock mounted storage	
Widescreen display	13.3" (338mm) WXGA+ (1440x900) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 250:1 contrast ratio	
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0	
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45 External monitor support via analog VGA DB-15 connector or DisplayPort; <i>Maximum external resolution: 2048x1536@75Hz</i>	
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, illuminated buttons (Power, ThinkVantage, Mute, and CapsLk)	
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label	
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	
Dimensions ³	<i>3-cell:</i> (WxDxH): 12.5" x 9.09" x 0.73-0.92"; 318mm x 231mm x 18.6-23.4mm <i>6-cell:</i> (WxDxH): 12.5" x 9.09" x 0.85-0.92"; 318mm x 231mm x 18.6-25.9mm	
Weight ²	<i>3-cell:</i> from 3.16 lb (1.43kg); <i>6-cell:</i> from 3.35 (1.52kg)	
Case color	Black	
Case material	<i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy	
Battery - type	Lithium Polymer 3-cell or Lithium Ion 6-cell ; supports standard or optional Option Bay 3-cell battery (for two batteries)	
Battery - life ¹⁰	<i>3-cell:</i> up to 3.4 hr; <i>6-cell:</i> up to 5.5 hr; <i>6-cell and Option Bay battery:</i> up to 9.5 hr	
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub); ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), Marvell® SATA-to-EIDE bridge (for optical)	
ExpressCard	None	
Multicard reader	None	
Ports	Three USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios	
Mini PCI Express	Three Mini PCI Express slots / 802.11 and WWAN are customer upgradable	
Intel 5100 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)	
WiMAX	<i>Some:</i> 11a/b/g/n and WiMAX wireless ⁴ , Mini PCIe adap, Intel WiMAX/WiFi Link 5350, 3x3 (450Mbps) WiFi + 1x2 WiMAX (Echo Peak)	
WWAN upg	<i>Some:</i> Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)	
Verizon ¹⁶	<i>Some:</i> Wireless WAN, Qualcomm chipset, Mini PCIe adapter and SIM, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, service contract reqd with Verizon	
Turbo Memory	None	
UWB	None	
Modem	None (use optional USB-based modem)	
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH, LED indicator	
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1	
Intel AMT	Intel Active Management Technology (iAMT 4.0)	
Audio support	High Definition (HD) Audio, AD1984A codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole	
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant	
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip	
Limited warranty ¹²	3-years/1-yr battery - EasyServ™.19 depot repair service / service upgrades ²² available	
2GB PC3-8500 DDR3 SODIMM	43R1988	Supports ThinkVantage® technologies 65-watt (GMA graphics) AC Adapter Next Generation ThinkPad Roll Cage (in display cover) EPEAT™ Gold rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378 ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 41C9176 ThinkPlus 4-year LOR 9x5 NBD 41C9177 ThinkPlus 5-year LOR 9x5 NBD 41C9179 ThinkPlus 4-year P&L P/U Depot 41C9178 ThinkPlus 5-year P&L P/U Depot 41C9180 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty
128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	
Other accessories on O-X300 sheet		
90W Slim AC/DC Combo Adapter	41N8460	
ThinkPad Executive Leather Case	43R2480	
Other accessories at lenovo.com/accessories		

See footnotes for important warranty information

⇨ Intel Centrino® 2 with vPro™ technology

Ⓢ US models announced Nov 25 or December 2, 2008; previous models on Aug 26, or Sep 2, 2008

ThinkPad® X301 (4057) - Onsite

Type-model	Low Voltage proc- essor	GHz	Memory	Wide- screen display	Cam- era	Disk SATA GB ⁸ SSD	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB wireless	Blue/ Fing	Bat- tery cells	Workhorse (W) Gbl (G) Avail Preload GMP (P) date
4057-17U	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	❖ Intel 5100 ²⁸	WWAN upg	None	Yes	3	Bus 32 G P Aug 08
4057-18U	SU9400	1.40	4GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	❖ Intel 5100	WWAN upg	None	Yes	6	Bus 32 G P Aug 08
4057-LDU	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GB SSD	DVD±RW	❖ Intel 5100	WWAN upg	None	Yes	3	XP Pro G P Aug 08

- **These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty**
- **Latest connectivity options including WLAN, WWAN, UWB, and GPS**
- **Cutting edge technologies including LED backlight, Solid State Drive, and ultrathin DVD**
- **Environmentally-friendly EPEAT Gold rating**

Positioning Processor	<i>Thin and light; two spindles</i> Intel® Core™ 2 Duo processor SU9400 with ultra low voltage, dual-core , Intel HD Boost, 800MHz system bus, and 3MB L2 cache										Preloaded operating system²⁰ - <i>Some:</i> Microsoft® Windows® XP Professional with Vista® COA - <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit) ❖ Vista Premium logo		
Memory	2GB or 4GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available;										- <i>Some:</i> Microsoft Windows Vista Business Edition (32-bit) ❖ Vista Premium logo		
Diskette drive EIDE DVD±RW Option Bay Serial ATA disk	None (use optional USB-based diskette drive) Ultrathin DVD burner, 7mm high, removable from Option Bay, tray-in Modular bay for devices (DVD burner, battery), 7mm high 64GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high, removable, upgradable, shock mounted storage										Preloaded applications¹⁴ (all OSes) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Microsoft Office 2007 Trial (60-day) • Roxio® Creator® Business Edition • Roxio MyDVD® (DVD±RW)		
Widescreen display Camera	13.3" (338mm) WXGA+ (1440x900) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 250:1 contrast ratio Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0												
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45 External monitor support via analog VGA DB-15 connector or DisplayPort; <i>Maximum external resolution:</i> 2048x1536@75Hz												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, illuminated buttons (Power, ThinkVantage, Mute, and CapsLk)												
TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	<i>3-cell:</i> (WxDxH): 12.5" x 9.09" x 0.73-0.92"; 318mm x 231mm x 18.6-23.4mm <i>6-cell:</i> (WxDxH): 12.5" x 9.09" x 0.85-0.92"; 318mm x 231mm x 18.6-25.9mm <i>3-cell:</i> from 3.16 lb (1.43kg); <i>6-cell:</i> from 3.35 (1.52kg)												
Weight ² Case material	<i>Color:</i> black; <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy												
Battery - type	Lithium Polymer 3-cell or Lithium Ion 6-cell ; supports optional Option Bay 3-cell battery (for two batteries)												
Battery - life ¹⁰	<i>3-cell:</i> up to 3.4 hr; <i>6-cell:</i> up to 5.5 hr; <i>6-cell and Option Bay battery:</i> up to 9.5 hr												
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub); ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), Marvell® SATA-to-EIDE bridge (for optical)												
ExpressCard slot Multicard Reader Ports	None None Three USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)												
Wireless antenna Mini PCI Express Intel 5100 ²⁸ WWAN upg Turbo Memory UWB Modem Bluetooth™ Ethernet Intel AMT Audio support	UltraConnect™ II Antenna / on-off switch for all wireless radios Three Mini PCI Express slots / 802.11 and WWAN are customer upgradable 11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak) Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152) None None None (use optional USB-based modem) Bluetooth 2.0 wireless, USB 2.0 interface via ICH, LED indicator Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1 Intel Active Management Technology (IAMT) High Definition (HD) Audio, AD1984A codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack										Supports ThinkVantage® technologies		
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, supports the security chip										65-watt (GMA graphics) AC Adapter Next Generation ThinkPad Roll Cage (in display cover) EPEAT™ Gold rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378		
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available										ThinkPlus™.22 2-year LOR ²⁴ 9x5 NBD 41C9175 ThinkPlus 3-year LOR 9x5 NBD 41C9176 ThinkPlus 4-year LOR 9x5 NBD 41C9177 ThinkPlus 5-year LOR 9x5 NBD 41C9179 ThinkPlus 4-year P&L P/U Depot 41C9178 ThinkPlus 5-year P&L P/U Depot 41C9180 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty		
1GB PC3-8500 DDR3 SODIMM 2GB PC3-8500 DDR3 SODIMM 64GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) USB 2.0 Lenovo Modem USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Super Multi-Burner Drive USB 2.0 Lenovo Enhanced Port Replicator ThinkPad Adjustable Notebook Stand Other accessories on O-X300 sheet	43R1987 43R1988 43N3400 43N3406 43R1814 43R2019 41N5565 43R8770 40Y7676		X300 LiPolymer Battery 3-cell X300 Li-Ion Battery 6-cell X300 LiPolymer Bay Battery 3-cell 90W Slim AC/DC Combo Adapter USB 2.0 Lenovo Multimedia Headset ThinkPad Ultraportable Case ThinkPad Executive Leather Case ThinkVision® L2240p Wide 22" Monitor ThinkVision L2440p Wide 24" Monitor Other accessories at lenovo.com/accessories		43R1965 43R1967 43R1966 41N8460 40Y8518 41U5062 43R2480 4422HB6 4420HB2								

See footnotes for important warranty information
US models announced August 26, 2008

❖ Intel Centrino® 2 with vPro™ technology

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(KOD2-3) September 2008

ThinkPad® X301 (2774) - Education

Personal Systems Reference (PSREF)

Type-model	Low Voltage processor	GHz	Memory	Wide-screen display	Cam-era	Disk SATA GB ⁸ SSD	EIDE optical or battery	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB wireless	Bat-tery Blue/ Fing cells	Workhorse (W) Global (G) Avail date
2774-E1U	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GBSSD	Blank bezel	Intel 5300 ²⁸	WWAN upg	None	Yes 3	Ult 32 No Feb 09

- **These models have an EasyServ™¹⁹ depot repair service 3-year limited warranty**
- Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers.
- Microsoft® Office Ultimate 2007 Academic Edition: Only valid for sale to students, faculty and staff of accredited educational institutions in the United States.

Positioning Processor	<i>Thin and light; two spindles</i> Intel® Core™ 2 Duo processor SU9400 with ultra low voltage, dual-core , Intel HD Boost, 800MHz system bus, and 3MB L2 cache										
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										
Diskette drive	None (use optional USB-based diskette drive)										
EIDE DVD±RW	None										
Option Bay battery	None										
Option Bay	Modular bay for devices (DVD burner, battery), 7mm high										
Serial ATA disk	64GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high, removable, upgradable, shock mounted storage										
Widescreen display	13.3" (338mm) WXGA+ (1440x900) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 250:1 contrast ratio										
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0										
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45 External monitor support via analog VGA DB-15 connector or DisplayPort; <i>Maximum external resolution:</i> 2048x1536@75Hz										
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, illuminated buttons (Power, ThinkVantage, Mute, and CapsLk)										
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass										
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label										
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										
Dimensions ³	3-cell: (WxDxH): 12.5" x 9.09" x 0.73-0.92"; 318mm x 231mm x 18.6-23.4mm 6-cell: (WxDxH): 12.5" x 9.09" x 0.85-0.92"; 318mm x 231mm x 18.6-25.9mm										
Weight ²	3-cell: from 3.16 lb (1.43kg); 6-cell: from 3.35 (1.52kg)										
Case color	Black										
Case material	<i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy										
Battery - type	Lithium Polymer 3-cell ;										
Battery - life ¹⁰	supports standard or optional Option Bay 3-cell battery (for two batteries) 3-cell: up to 3.4 hr; 6-cell: up to 5.5 hr; 6-cell and Option Bay battery: up to 9.5 hr										
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub); ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), Marvell® SATA-to-EIDE bridge (for optical)										
ExpressCard	None										
Multicard reader	None										
Ports	Three USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)										
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios										
Mini PCI Express	Three Mini PCI Express slots / 802.11 and WWAN are customer upgradable										
Intel 5300 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)										
WWAN upg	Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)										
Turbo Memory	None										
UWB	None										
Modem	None (use optional USB-based modem)										
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH, LED indicator										
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1										
Intel AMT	Intel Active Management Technology (IAMT 4.0)										
Audio support	High Definition (HD) Audio, AD1984A codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack										
Security	Power-on password, hard disk password, supervisor password, security keyhole										
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant										
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip										
Limited warranty ¹²	3-years/1-yr battery - EasyServ™¹⁹ depot repair service / service upgrades²² available										
	Preloaded operating system²⁰ - Microsoft® Windows® Vista® Ultimate Edition (32-bit) ⇨ Vista Premium logo Preloaded applications¹⁴ • Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Roxio® Creator® Business Edition										
	Supports ThinkVantage® technologies										
	65-watt (GMA graphics) AC Adapter Next Generation ThinkPad Roll Cage (in display cover) EPEAT™ Gold rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378										
	Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty										

See footnotes for important warranty information
US model announced February 17, 2009

⇨ Intel Centrino® 2 with vPro™ technology

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(KOD2-4) February 2009

ThinkPad® X301 (4057) - Education (Onsite)

Personal Systems Reference (PSREF)

Type-model	Low Voltage proc- essor	GHz	Memory	Wide- screen display	Cam- era	Disk SATA GB ⁵ SSD	EIDE optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN or Turbo	Mini PCIe UWB wireless	Blue/ Fing cells	Bat- tery	Workhorse (W) Gbl (G) Avail date
4057-E1U	SU9400	1.40	2GB	13.3" WXGA+	Cam	64GBSSD	Blank bezel	Intel 5300 ²⁸	WWAN upg	None	Yes	3	Ult 32 No Feb 09
<ul style="list-style-type: none"> • This model has a limited onsite service²⁴ 3-year limited warranty • Educational models are available only to public or private K-12 or higher accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers. • Microsoft® Office Ultimate 2007 Academic Edition: Only valid for sale to students, faculty and staff of accredited educational institutions in the United States. 													
Positioning Processor	<i>Thin and light; two spindles</i> Intel® Core™ 2 Duo processor SU9400 with ultra low voltage, dual-core , Intel HD Boost, 800MHz system bus, and 3MB L2 cache										Preloaded operating system²⁰ - Microsoft® Windows® Vista® - Ultimate Edition (32-bit) ↳ Vista Premium logo		
Memory	2GB std / 4GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available										Preloaded applications¹⁴ • Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • 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 • Fingerprint Software (fingerprint models) • Roxio® Creator® Business Edition		
Diskette drive	None (use optional USB-based diskette drive)												
EIDE DVD±RW	None												
Option Bay	Modular bay for devices (DVD burner, battery), 7mm high												
Serial ATA disk	64GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high, removable, upgradable, shock mounted storage												
Widescreen display	13.3" (338mm) WXGA+ (1440x900) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 250:1 contrast ratio												
Camera	Camera on top of screen, 1.3-megapixel, fixed focus, USB 2.0												
Integrated graphics	Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD) , in GS45 External monitor support via analog VGA DB-15 connector or DisplayPort; <i>Maximum external resolution:</i> 2048x1536 @75Hz												
Keyboard	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys, illuminated buttons (Power, ThinkVantage, Mute, and CapsLk)												
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass												
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label												
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions ³	3-cell: (WxDxH): 12.5" x 9.09" x 0.73-0.92"; 318mm x 231mm x 18.6-23.4mm 6-cell: (WxDxH): 12.5" x 9.09" x 0.85-0.92"; 318mm x 231mm x 18.6-25.9mm 3-cell: from 3.16 lb (1.43kg); 6-cell: from 3.35 (1.52kg)												
Weight ²													
Case material	<i>Color:</i> black; <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy												
Battery - type	Lithium Polymer 3-cell ;												
Battery - life ¹⁰	supports optional Option Bay 3-cell battery (for two batteries) 3-cell: up to 3.4 hr; 6-cell: up to 5.5 hr; 6-cell and Option Bay battery: up to 9.5 hr												
Chipset	Mobile Intel GS45 Express Chipset (Graphics Memory Controller Hub); ICH9M-SFF-Enhanced I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, security chip, ethernet MAC), Marvell® SATA-to-EIDE bridge (for optical)												
ExpressCard slot	None												
Multicard Reader	None												
Ports	Three USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)												
Wireless antenna	UltraConnect™ II Antenna / on-off switch for all wireless radios										Supports ThinkVantage® technologies		
Mini PCI Express	Three Mini PCI Express slots / 802.11 and WWAN are customer upgradable												
Intel 5300 ²⁸	11a/b/g/n wireless ⁴ , Mini PCIe adapter, Intel WiFi Link 5300, 3x3 (Shirley Peak)										65-watt (GMA graphics) AC Adapter Next Generation ThinkPad Roll Cage (in display cover) EPEAT™ Gold rating ENERGY STAR® 4.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378		
WWAN upg	Wireless WAN upgradable, requires Verizon® (43R9151) or AT&T® (43R9152)												
Turbo Memory	None												
UWB	None												
Modem	None (use optional USB-based modem)												
Bluetooth™	Bluetooth 2.0 wireless, USB 2.0 interface via ICH, LED indicator												
Ethernet	Intel 82567LM Gigabit Network Connection (Boazman), PHY, PCIe x1												
Intel AMT	Intel Active Management Technology (IAMT)												
Audio support	High Definition (HD) Audio, AD1984A codec / stereo speakers, 1 watt / volume up, down, mute buttons / digital microphone, mic input jack, headphone jack												
Security	Power-on password, hard disk password, supervisor password, security keyhole												
Security chip	Trusted Platform Module, integrated in ICH9M, TCG 1.2-compliant												
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor, supports the security chip												
Limited warranty ¹²	3-years/1-year battery, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available										Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty		

See footnotes for important warranty information
US model announced February 17, 2009

↳ Intel Centrino® 2 with vPro™ technology

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(KOD2-5) February 2009

Partial list of accessories supported on:

- ThinkPad X300 originally announced on February 26, 2008
- ThinkPad X301 originally announced on August 26, 2008

Memory

X300:

512MB PC2-5300 DDR2 SODIMM	40Y7733	ann	01/05/06
1GB PC2-5300 DDR2 SODIMM (TopSeller)	43R1999	ann	03/25/08
1GB PC2-5300 DDR2 SODIMM	40Y7734	ann	01/05/06
2GB PC2-5300 DDR2 SODIMM (TopSeller)	43R2000	ann	03/25/08
2GB PC2-5300 DDR2 SODIMM	40Y7735	ann	11/28/06

X301:

1GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2045	ann	11/04/08
1GB PC3-8500 DDR3 SODIMM	43R1987	ann	08/05/08
2GB PC3-8500 DDR3 SODIMM (TopSeller)	43R2046	ann	11/04/08
2GB PC3-8500 DDR3 SODIMM	43R1988	ann	08/05/08

Storage and removable storage

128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover)	43N3406	ann	08/26/08
USB 2.0 Essential Memory Key 2GB	41U4944	ann	01/23/07
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 Security Memory Key 2GB	41U5119	ann	07/17/07
USB 2.0 Security Memory Key 4GB	41U5120	ann	07/17/07
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 Portable Diskette Drive	05K9276	ann	06/05/00
USB 2.0 CD-RW/DVD-ROM Combo II Drive	40Y8637	ann	01/05/06
USB 2.0 Portable 160GB Hard Disk	43R1784	ann	09/23/08
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
USB 2.0 Super Multi-Burner Drive	41N5565	ann	01/23/07

Wireless WAN (Mini PCI Express)

X300 WWAN upgradable models:

Verizon® WWAN EV-DO Rev. A Mini PCIe	43R1818	ann	03/04/08
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X301 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

USB 2.0 Lenovo Enhanced Port Replicator	43R8770	ann	02/26/08
ThinkPad Adjustable Notebook Stand	40Y7676	ann	09/20/05

Keyboard

TrackPoint Cap Collection	73P2698	ann	12/16/03
USB Numeric Keypad	33L3225	ann	05/01/00
Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04
USB Keyboard with UltraNav	31P8950	ann	01/28/03
USB Travel Keyboard with UltraNav	31P9490	ann	04/27/04
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05
Logitech Bluetooth Cordless Desktop MX5500	45J5831	third-party	

Mouse

Optical Wheel Mouse (USB)	06P4069	ann	05/21/03
Optical ScrollPoint® Mouse (USB, PS/2)	31P7405	ann	08/27/02
Optical Wheel Travel Mouse (USB, PS/2)	31P7410	ann	06/04/02
Laser Tilt Wheel Mouse (USB, PS/2)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse (blk, via USB)	45K1696	ann	11/25/08
Lenovo Wireless Laser Mouse (red, via USB)	51J0198	ann	11/25/08
Laser Tilt Wheel Travel Mouse (Bluetooth)	41U5008	ann	01/22/08
Wireless Kybd & Opt Wheel Mouse (via USB)	73P4067	ann	12/07/04
Logitech Bluetooth Cordless Desktop MX5500	45J5831	third-party	

Security

Kensington® Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08

Multimedia

USB 2.0 Lenovo Multimedia Headset	40Y8518	ann	06/27/06
USB 2.0 Lenovo Webcam	40Y8519	ann	08/29/06

Modem

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

X300 LiPolymer Battery 3-cell	43R1965	ann	02/26/08
X300 Li-Ion Battery 6-cell	43R1967	ann	02/26/08
X300 LiPolymer Bay Battery 3-cell	43R1966	ann	02/26/08

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter	40Y7696	ann	01/05/06
ThinkPad 90W AC Adapter	40Y7659	ann	09/20/05
ThinkPad 90W Slim AC/DC Combo Adapter	41N8460	ann	11/27/07

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

Charging tips for 90W Slim AC/DC Combo Adapter 41N8460

- Dual (ThinkPad+Phone) Charging Y-Cable 41R4345 ann 12/18/07
- 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

More information at www.lenovopowertips.com

Carrying Cases

Up to 13.3" widescreen models:

ThinkPad Ultraportable Case	41U5062	ann	05/13/08
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Up to 14.1" widescreen models:

ThinkPad Expander Case	43R9118	ann	06/24/08
ThinkPad Women's Microfiber Tote	22P8855		
ThinkPad Women's Leather Trim Tote	22P8856		
ThinkPad Convertible Carrying Case	22P8860		
ThinkPad Women's Executive Leather Tote	22P8857		
Women's Executive Red Leather Tote	22P8858		

Up to 15.4" widescreen models:

Lenovo Carrying Case - Messenger Max	41U5253	ann	05/01/07
Lenovo Carr Case - Performance Backpack	41U5254	ann	05/01/07
Lenovo Standard Case	45K1697	ann	11/25/08
Lenovo Standard Backpack	45K1698	ann	11/25/08
Checkpoint Friendly Business Topload Case	51J0418	ann	02/24/09
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

Up to 17.0" widescreen models:

ThinkPad 17W Business Topload Case	43R9117	ann	08/12/08
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Lenovo luxury cases at www.lenovoluxurycases.com

Monitors

ThinkVision® L174 17" Monitor	9227AE1	ann	04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann	09/17/08
ThinkVision L1900p 19" Monitor	4431HE1	ann	11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann	09/17/08
ThinkVision L200p Wide 20.1" Monitor	4438HB6	ann	04/15/08
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann	09/17/08
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann	09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann	09/17/08

Monitor Accessories⁴⁶

ThinkVision USB Soundbar	40Y7616	ann	08/23/05
ThinkVision Soundbar	45K1263	ann	09/16/08
Kensington Cable Lock from Lenovo	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08
ThinkPad Convertible Monitor Stand	40Y7620	ann	01/05/06
Radial Arm	19K4464	ann	05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide

Partial list of Lenovo® ThinkPlus Services²² for ThinkPad notebooks

For more information see:

http://www.lenovo.com/services_warranty/us/en/index.html

<p>ThinkPlus service upgrade options</p> <p>ThinkPad notebook with 1-year Depot warranty <i>Depot = Depot repair</i></p> <table border="0"> <tr><td>2-year parts and labor depot repair service</td><td>41C9169</td></tr> <tr><td>3-year parts and labor depot repair service</td><td>41C9170</td></tr> <tr><td>4-year parts and labor depot repair service</td><td>41C9172</td></tr> <tr><td>5-year parts and labor depot repair service</td><td>41C9174</td></tr> </table> <p><i>LOR = Lenovo Onsite Repair</i></p> <table border="0"> <tr><td>1-year LOR 9x5 Next Business Day</td><td>41C9166</td></tr> <tr><td>2-year LOR 9x5 Next Business Day</td><td>41C9167</td></tr> <tr><td>3-year LOR 9x5 Next Business Day</td><td>41C9168</td></tr> <tr><td>4-year LOR 9x5 Next Business Day</td><td>41C9171</td></tr> <tr><td>5-year LOR 9x5 Next Business Day</td><td>41C9173</td></tr> </table> <p>ThinkPad notebook with 3-year Depot warranty <i>Depot = Depot repair</i></p> <table border="0"> <tr><td>4-year parts and labor depot 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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, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/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 **TAA:** ThinkPad notebook is compliant with the U.S. Federal Government's country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.
- ⁶ **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- ⁷ **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems Windows XP Professional 64-bit and Windows Vista 64-bit Editions.
- ⁸ **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- ⁹ **CD/DVD drive speeds** list maximum rates; rates are variable and are often less than the maximum.
- ¹⁰ **Battery:** These model numbers achieved the battery life based on MobileMark® 2007 during testing. For the ThinkPad X300, battery life is based on Business Winstone Battery Mark 2002. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.
- ¹¹ **External monitor:** This system supports a maximum of two external monitors. The integrated display(s) must be disabled to support two external monitors.
- ¹² **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
- ¹³ **Internet access not included.**
- ¹⁴ **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.
- ¹⁵ **Activating Verizon Wireless Service:** Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at www.verizonwireless.com.
- ¹⁶ **Activating Verizon Wireless Service:** Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at www.verizonwireless.com.
- ¹⁷ **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.
- ¹⁸ **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.
- ¹⁹ **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.
- ²⁰ **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.
- ²¹ **For combination drives**, maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.

²² **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.

²³ **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.

²⁴ **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.

²⁶ **Full-size keyboard:** As defined by ISO/IEC 15412.

²⁷ **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.

²⁸ **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.

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

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.

³⁶ **Wireless upgradable** allows the system to be wireless-enabled with an optional wireless Mini PCI or Mini PCI Express card. Designed to operate only with Lenovo options.

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