

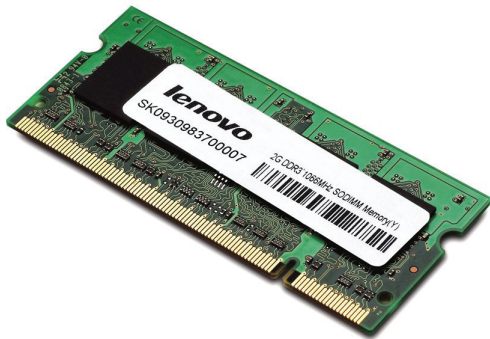


Personal Systems Reference Lenovo® ThinkPad® Notebooks

December 2010 - Version 390



Visit www.lenovo.com/psref for the latest version



PC3-8500 DDR3 Low-Halogen SODIMM
1GB 55Y3706
2GB 55Y3707



ThinkPad Mini Dock Plus Series 3
433810U



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



ThinkPad Bluetooth Laser Mouse
41U5008



Lenovo® Power Hub
57Y4600



90W Ultraslim AC/DC Combo Adapter
41R4493

ThinkPad®



Lenovo® ThinkPad L412



Lenovo ThinkPad L412 with
ThinkPad Battery 55++ (9-cell)
57Y4186



Lenovo ThinkPad L412



Lenovo ThinkPad L412



Lenovo ThinkPad L412



Lenovo ThinkPad L412

ThinkPad® L412 4403 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | GHz | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Preload | Avail date |
|------------|-----------|------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------|---------------------|------------|---------|------------|
| 4403-33U | i3-350M | 2.26 | | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | None | | Blue | Pro 64 | May 10 |
| 4403-34U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | None | Finger | Blue | Pro 64 | May 10 |
| 4403-69U | i3-370M | 2.40 | | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | None | | Blue | Pro 64 | Jul 10 |

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

| | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Positioning Processor | <i>Mainstream business performance; two spindles</i> Intel® Core™ i3 processor i3-350M or i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) | | | |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | | | | | | | | | | | | | |
| Widescreen display Camera | 14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch None | | | | | | | | | | 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 14.0W" (WxDxH): 13.5" x 9.2" x 1.26–1.42"; 344mm x 233mm x 32–36mm 4-cell: from 4.92 lb (2.23kg); 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.45 lb (2.47kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell 4-cell: up to 2.8 hr; 6-cell: up to 5.0 hr; 9-cell: up to 8.1 hr | | | | | | | | | | 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 | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | | | | | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | | |

See footnotes for important warranty information

US model announced July 6, 2010; previous models on May 11, 2010

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(DMD3-7) July 2010

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Bat-tery cells | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|----------------|---------|------------|
| 4404-32U | i3-350M | 2.26 | | 2GB | 14.0" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | Blue | 6 | Pro 64 | May 10 |
| 4404-33U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | | Blue | 6 | Pro 64 | May 10 |
| 4404-34U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | Blue | 6 | Pro 64 | May 10 |
| 4404-35U | i5-540M | 2.53 | 3.06 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue | 6 | Pro 64 | May 10 |
| 4404-4LU | i3-370M | 2.40 | | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Blue | 6 | Pro 64 | Jul 10 |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|---|
| Positioning Processor | Mainstream business performance; two spindles Intel® Core™ i3 processor i3-350M or i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M or i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Adobe® Reader® • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available | |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | |
| Widescreen display Camera | 14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch None | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 14.0W" (WxDxH): 13.5" x 9.2" x 1.26–1.42"; 344mm x 233mm x 32–36mm 4-cell: from 4.92 lb (2.23kg); 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.45 lb (2.47kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell 4-cell: up to 2.8 hr; 6-cell: up to 5.0 hr; 9-cell: up to 8.1 hr | Supports ThinkVantage® technologies |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader Limited warranty ¹² | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| See footnotes for important warranty information | | |

US model announced July 6, 2010; previous models on May 11, 2010

ThinkPad® L412 4403 (Discrete) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | GHz | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Preload | Avail date |
|------------|-----------|------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------|---------------------|------------|---------|------------|
| 4403-58U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | None | None | Blue | Pro 64 | Jun 10 |

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

| | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Positioning Processor | <i>Mainstream business performance; two spindles</i> Intel® Core™ i5 processor i5-520M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | | |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) | | | |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | | | | | | | | | | | | | |
| Widescreen display Camera | 14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Discrete graphics | ATI™ Mobility Radeon™ HD 5145 graphics , 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch None | | | | | | | | | | 90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | <i>14.0W" (WxDxH):</i> 13.5" x 9.2" x 1.26–1.42"; 344mm x 233mm x 32–36mm <i>4-cell:</i> from 5.09 lb (2.31kg); <i>6-cell:</i> from 5.28 lb (2.40kg); <i>9-cell:</i> from 5.62 lb (2.55kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 9-cell <i>4-cell:</i> up to 2.5 hr; <i>6-cell:</i> up to 4.5 hr; <i>9-cell:</i> up to 7.4 hr | | | | | | | | | | 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 | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | | | | | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | |
| Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced June 22, 2010

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(DMD3-9) June 2010

ThinkPad® L412 4404 (Discrete) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base (GHz) | turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Bat-tery cells | Preload | Avail date |
|------------|-----------|----------------|-------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|--------------------|---------------------|------------|----------------|---------|------------|
| 4404-3GU | i3-370M | 2.40 | | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | | Finger | Blue | 9 | Pro 64 | Jun 10 |
| 4404-3HU | i3-370M | 2.40 | | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | Gobi 2000 | AT&T ²³ | | Blue | 9 | Pro 64 | Jun 10 |
| 4404-3JU | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | Finger | Blue | 9 | Pro 64 | Jun 10 |
| 4404-3KU | i3-350M | 2.26 | | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | | Blue | 9 | Pro 64 | Jun 10 |
| 4404-3LU | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | | Blue | 9 | Pro 64 | Jun 10 |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | Mainstream business performance; two spindles Intel® Core™ i3 processor i3-350M or i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Windows Live™ Toolbar • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) | | | | |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available | | | | | | | | | | Supports ThinkVantage® technologies | | | | |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | | | | | | | | | | | | | | |
| Widescreen display Camera | 14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | 90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | | |
| Discrete graphics | ATI™ Mobility Radeon™ HD 5145 graphics, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch None | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | | | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 14.0W" (WxDxH): 13.5" x 9.2" x 1.26–1.42"; 344mm x 233mm x 32–36mm 4-cell: from 5.09 lb (2.31kg); 6-cell: from 5.28 lb (2.40kg); 9-cell: from 5.62 lb (2.55kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 9-cell 4-cell: up to 2.5 hr; 6-cell: up to 4.5 hr; 9-cell: up to 7.4 hr | | | | | | | | | | | | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | | | | | | | | | | | | | | |
| Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | <i>Some:</i> AT&T®, contract required with service provider None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | | | | | | | | | | | | | | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

See footnotes for important warranty information
US models announced June 22, 2010

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| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|--------------------|---------------------|------------|---------|------------|
| 0530-63U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | Gobi 2000 | AT&T ²³ | None | Blue | Pro 32 | Apr 10 |
| 0530-6LU | i3-370M | 2.40 | | 2GB | 14.0" HD | | 160G 7200 | Intel 6200 | | | None | | Pro 64 | Jul 10 |
| 0530-6MU | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | | 160G 7200 | Intel 6200 | WWAN upg | | None | | Pro 64 | Jul 10 |

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

| | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Positioning Processor | <i>Mainstream business performance; two spindles</i> Intel® Core™ i3 processor i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • ThinkVantage Toolbox • Adobe® Reader® • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) | | | |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available | | | | | | | | | | Supports ThinkVantage® technologies 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | | | | | | | | | | | | | |
| Widescreen display Camera | 14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | 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 | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch None | | | | | | | | | | 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 | | | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 14.0W" (WxDxH): 13.5" x 9.2" x 1.26–1.42"; 344mm x 233mm x 32–36mm <i>4-cell:</i> from 4.92 lb (2.23kg); <i>6-cell:</i> from 5.11 lb (2.32kg); <i>9-cell:</i> from 5.45 lb (2.47kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell <i>4-cell:</i> up to 2.8 hr; <i>6-cell:</i> up to 5.0 hr; <i>9-cell:</i> up to 8.1 hr | | | | | | | | | | | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | 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 | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | | | | | | | | | | | | | |
| Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | <i>Some:</i> AT&T®, contract required with service provider None <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | | | | | | | | | | 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 | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | | | | | | | | | | | | | |
| Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

See footnotes for important warranty information

US models announced July 6, 2010; previous model on April 20, 2010

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Preload | Workhorse (W) Gbl (G) Educ | Avail date |
|------------|-----------|------------|-----------------|------------|---------------------|--------|-------------------------------|--------------------------|---------------------|-----------------------|---------------------|------------|---------|----------------------------|------------|
| 0553-35U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 ²⁸ | Gobi 2000 | Verizon ¹⁶ | Finger | Blue | Pro 32 | | Apr 10 |
| 0553-36U | i5-540M | 2.53 | 3.06 | 4GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | Gobi 2000 | Verizon | Finger | Blue | Pro 64 | | Apr 10 |
| 0553-42U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | | 160G 7200 | 11b/g/n | WWAN upg | | | Blue | Pro 32 | W G | Apr 10 |
| 0553-43U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | | Blue | Pro 32 | W G | Apr 10 |
| 0553-44U | i5-540M | 2.53 | 3.06 | 3GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | Finger | Blue | Pro 32 | W G | Apr 10 |
| 0553-55U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | | 250G 5400 | Intel 6200 | WWAN upg | | | Blue | Pro 32 | | Apr 10 |
| 0553-56U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | Gobi 2000 | AT&T ²³ | Finger | Blue | Pro 32 | | Apr 10 |
| 0553-57U | i5-540M | 2.53 | 3.06 | 3GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 | Gobi 2000 | Verizon | Finger | Blue | Pro 32 | | Apr 10 |
| 0553-58U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | | Blue | Pro 32 | Edu | Apr 10 |
| 0553-59U | i5-540M | 2.53 | 3.06 | 3GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | Gobi 2000 | AT&T | Finger | Blue | Pro 32 | Edu | Apr 10 |
| 0553-6TU | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 | Gobi 2000 | AT&T | | Blue | Pro 32 | | Apr 10 |
| ☞ 0553-7YU | i3-370M | 2.40 | | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Finger | Blue | Pro 64 | | Jul 10 |
| ☞ 0553-7ZU | i5-520M | 2.40 | 2.93 | 4GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | Finger | Blue | Pro 64 | | Jul 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|---|--|--|
| Positioning Processor | Mainstream business performance; two spindles Intel® Core™ i3 processor i3-370M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 Preloaded applications¹⁴ (only some listed) |
| Memory | 2GB, 3GB, or 4GB std / 8GB max ⁷ / PC3-10600 1333MHz 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: Education software - Adobe Digital School Collection - Instructor Resources (and DVD) - Learning Creative Suite 4 (DVD) - Photoshop Elements 7 (DVD) - Premiere Elements 7 (and DVD) - Acrobat 9 Professional (DVD) - Contribute CS4 (and DVD) - Soundbooth CS4 (and DVD) |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm), 250GB (5400 rpm), or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) |
| Widescreen display Camera | 14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | • Supports ThinkVantage® technologies |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch None | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 14.0W" (WxDxH): 13.5" x 9.2" x 1.26–1.42"; 344mm x 233mm x 32–36mm <i>4-cell:</i> from 4.92 lb (2.23kg); <i>6-cell:</i> from 5.11 lb (2.32kg); <i>9-cell:</i> from 5.45 lb (2.47kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell <i>4-cell:</i> up to 2.8 hr; <i>6-cell:</i> up to 5.0 hr; <i>9-cell:</i> up to 8.1 hr | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | <i>Some:</i> AT&T® or Verizon®, contract required with service provider None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information

☞ US models announced July 6, 2010; previous models on April 6 or April 20, 2010

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Bat-tery Preload | Workhorse (W) Gbl (G) Educ | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|--------------------|---------------------|------------|------------------|----------------------------|------------|
| 0553-6XU | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | | Blue | 9 | Pro 64 | W G Jun 10 |
| 0553-6YU | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | | | Blue | 9 | Pro 64 | W G Jun 10 |
| 0553-6ZU | i5-540M | 2.53 | 3.06 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | Finger | Blue | 9 | Pro 64 | W G Jun 10 |
| 0553-72U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | | Blue | 9 | Pro 64 | Jun 10 |
| 0553-73U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | Gobi 2000 | AT&T ²³ | Finger | Blue | 9 | Pro 64 | Jun 10 |
| 0553-74U | i3-350M | 2.26 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | | Blue | 6 | Pro 32 | W G Jun 10 |
| 0553-75U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 320G 5400 | Intel 6200 | WWAN upg | | | Blue | 9 | Pro 64 | W G Jun 10 |
| 0553-76U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Finger | Blue | 6 | Pro 64 | W G Jun 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|---|--|--|
| Positioning Processor | Mainstream business performance; two spindles Intel® Core™ i3 processor i3-350M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Windows Live™ Toolbar • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) or 320GB (5400 or 7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | |
| Widescreen display Camera | 14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | ATI™ Mobility Radeon™ HD 5145 graphics , 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch None | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 14.0W" (WxDxH): 13.5" x 9.2" x 1.26–1.42"; 344mm x 233mm x 32–36mm <i>4-cell:</i> from 5.09 lb (2.31kg); <i>6-cell:</i> from 5.28 lb (2.40kg); <i>9-cell:</i> from 5.62 lb (2.55kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell <i>4-cell:</i> up to 2.5 hr; <i>6-cell:</i> up to 4.5 hr; <i>9-cell:</i> up to 7.4 hr | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | Supports ThinkVantage® technologies |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | 90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | <i>Some:</i> AT&T®, contract required with service provider None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information
US models announced June 22, 2010
⚡ US model withdrawn effective September 2010

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Preload | Workhorse (W) Global (G) GMP (P) | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|---------|----------------------------------|------------|
| 0585-42U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | | 160G 7200 | 11b/g/n | WWAN upg | | Blue | Pro 32 | W G P | Apr 10 |
| 0585-43U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | | Blue | Pro 32 | W G P | Apr 10 |
| 0585-44U | i5-540M | 2.53 | 3.06 | 3GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue | Pro 32 | W G P | Apr 10 |

- These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Mainstream business performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 | | | |
| Memory | 2GB or 3GB std / 8GB max ⁷ / PC3-10600 1333MHz 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Windows Live™ Toolbar • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) | | | |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | | | | | | | | | | | | | |
| Widescreen display Camera | 14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch None | | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 14.0W" (WxDxH): 13.5" x 9.2" x 1.26–1.42"; 344mm x 233mm x 32–36mm <i>4-cell:</i> from 4.92 lb (2.23kg); <i>6-cell:</i> from 5.11 lb (2.32kg); <i>9-cell:</i> from 5.45 lb (2.47kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell <i>4-cell:</i> up to 2.8 hr; <i>6-cell:</i> up to 5.0 hr; <i>9-cell:</i> up to 8.1 hr | | | | | | | | | | | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | | | | |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | | | | | | | | | | Supports ThinkVantage® technologies 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | | | | | | | | | | ThinkPlus™.22 4-year LOR ²⁴ 9x5 NBD 45K6038 | | | |
| 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 models announced April 20, 2010

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Bat-tery cells | Preload | Workhorse (W) Global (G) GMP (P) | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|----------------|---------|----------------------------------|------------|
| 0585-6XU | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | Blue | 9 | Pro 64 | W G P | Jun 10 |
| 0585-6YU | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | | Blue | 9 | Pro 64 | W G P | Jun 10 |
| 0585-6ZU | i5-540M | 2.53 | 3.06 | 2GB | 14.0" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue | 9 | Pro 64 | W G P | Jun 10 |
| ✗ 0585-74U | i3-350M | 2.26 | | 2GB | 14.0" HD | | 160G 7200 | 11b/g/n | WWAN upg | | Blue | 6 | Pro 32 | W G P | Jun 10 |
| 0585-75U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 320G 5400 | Intel 6200 | WWAN upg | | Blue | 9 | Pro 64 | W G P | Jun 10 |
| 0585-76U | i5-520M | 2.40 | 2.93 | 2GB | 14.0" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | Finger | Blue | 6 | Pro 64 | W G P | Jun 10 |

- These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|---|--|
| Positioning Processor | Mainstream business performance; two spindles Intel® Core™ i3 processor i3-350M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M or i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Windows Live™ Toolbar • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) or 320GB (5400 or 7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | |
| Widescreen display Camera | 14.0" (355mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | ATI™ Mobility Radeon™ HD 5145 graphics , 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch None | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 14.0W" (WxDxH): 13.5" x 9.2" x 1.26–1.42"; 344mm x 233mm x 32–36mm <i>4-cell:</i> from 5.09 lb (2.31kg); <i>6-cell:</i> from 5.28 lb (2.40kg); <i>9-cell:</i> from 5.62 lb (2.55kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell <i>4-cell:</i> up to 2.5 hr; <i>6-cell:</i> up to 4.5 hr; <i>9-cell:</i> up to 7.4 hr | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | Supports ThinkVantage® technologies 90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | ThinkPlus™.22 4-year LOR ²⁴ 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 models announced June 22, 2010

✗ US model withdrawn effective September 2010

Memory

| | | |
|--|---------|--------------|
| 1GB PC3-10600 DDR3 L-H SODIMM | 55Y3709 | ann 03/02/10 |
| 1GB PC3-10600 DDR3 L-H SODIMM (25Pack) | 57Y4415 | ann 03/02/10 |
| 2GB PC3-10600 DDR3 L-H SODIMM | 55Y3710 | ann 03/02/10 |
| 2GB PC3-10600 DDR3 L-H SODIMM (25Pack) | 57Y4416 | ann 03/02/10 |
| 4GB PC3-10600 DDR3 L-H SODIMM | 55Y3711 | ann 03/02/10 |

Storage and removable storage

| | | |
|---|---------|--------------|
| SL410/510 500GB Disk SATA 3G/s (5400 rpm) | 43N3422 | ann 10/22/09 |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | ann 05/26/09 |
| USB 2.0 Portable Secure 160GB Hard Disk | 43R2018 | ann 11/18/08 |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | ann 11/18/08 |
| eSATA/USB 2.0 Secure 500GB Hard Drive | 57Y4400 | ann 01/07/10 |
| USB 2.0 Portable DVD Burner | 43N3264 | ann 01/05/10 |

Wireless WAN (Mini PCI Express)
Only WWAN upgradable models:

| | | |
|---|---------|--------------|
| ThinkPad Gobi™ 2000 Broadband Option | 78Y1399 | ann 01/07/10 |
| ThinkPad AT&T® Gobi 2000 Broadband Option | 78Y1398 | ann 01/07/10 |

ThinkPad Expansion

| | | |
|--|---------|--------------|
| Lenovo® Essential Notebook Stand | 45J9292 | ann 05/12/09 |
| USB Port Replicator with Digital Video | 45K1610 | ann 07/28/09 |
| ThinkPad Port Replicator Series 3 | 433610W | ann 06/23/09 |
| ThinkPad Mini Dock Series 3 ⁶¹ | 433710U | ann 06/23/09 |
| ⁶¹ When docked, ThinkPad Mini Dock Series 3 (433710U) Audio ports are inactive, ThinkPad Audio ports are active. | | |
| ThinkPad Mini Dock Plus Series 3 ⁶¹ | 433810U | ann 06/23/09 |
| ⁶¹ When docked, ThinkPad Mini Dock Plus Series 3 (433810U) eSATA & Audio ports are inactive, ThinkPad eSATA & Audio ports are active. | | |
| ThinkPad Mini Dock Plus Series 3 - Mobile WS | 433820U | ann 01/07/10 |

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 |
| UltraSlim Wireless Keyboard and Mouse ⁵² | 57Y4700 | ann 09/15/09 |
| ⁵² Wireless via 2.4GHz technology using a micro-size USB receiver. | | |
| ThinkPad USB Keyboard with TrackPoint | 55Y9003 | ann 08/18/09 |
| Lenovo® USB Fingerprint Keyboard | 73P4730 | ann 02/22/05 |
| Lenovo USB Smartcard Keyboard | 51J0155 | ann 03/24/09 |

Mouse

| | | |
|--|---------|--------------|
| Lenovo Optical Mouse (USB) | 06P4069 | ann 05/21/03 |
| Lenovo Laser Mouse (USB) | 41U3074 | ann 01/23/07 |
| ThinkPad USB Laser Mouse | 57Y4635 | ann 12/15/09 |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | ann 08/27/02 |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | ann 06/04/02 |
| ThinkPad Bluetooth Laser Mouse | 41U5008 | ann 01/22/08 |

Multimedia

| | | |
|----------------------------|---------|--------------|
| ThinkPad In-Ear Headphones | 57Y4488 | ann 01/07/10 |
|----------------------------|---------|--------------|

Modem

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

Security

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

Batteries

| | | |
|--|---------|--------------|
| ThinkPad Battery 55+ (6-cell) | 57Y4185 | ann 03/30/10 |
| ThinkPad Battery 55++ (9-cell) | 57Y4186 | ann 03/30/10 |
| ThinkPad External Battery Charger ⁴⁴ | 40Y7625 | ann 09/20/05 |
| ⁴⁴ Requires the <i>ThinkPad 90W AC Adapter 40Y7659</i> or the adapter provided with the system. | | |

More information at www.lenovo.com/alldaycomputing

| | | |
|--|---------|--------------|
| ThinkPad 65W AC Adapter ⁴⁵ | 40Y7696 | ann 01/05/06 |
| ⁴⁵ Only compatible with the integrated graphics models. | | |
| ThinkPad 90W AC Adapter | 40Y7659 | ann 09/20/05 |
| Lenovo Power Hub | 57Y4600 | ann 09/07/10 |
| 90W UltraSlim AC/DC Combo Adapter | 41R4493 | ann 09/22/09 |

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

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

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

More information at www.lenovopowertips.com

Carrying Cases

Up to 14" widescreen models:

| | | |
|--------------------------|---------|--------------|
| ThinkPad 14W Case Sleeve | 57Y4294 | ann 03/16/10 |
|--------------------------|---------|--------------|

Up to 15.4" widescreen models:

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

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

Monitors

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

Monitor Accessories⁴⁶

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

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

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

Other accessories at www.lenovo.com/accessories
 Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad®



Lenovo® ThinkPad L512



Lenovo ThinkPad L512 with
ThinkPad Battery 55++ (9-cell)
57Y4186



Lenovo ThinkPad L512



Lenovo ThinkPad L512



Lenovo ThinkPad L512



Lenovo ThinkPad L512

ThinkPad® L512 4444 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | GHz | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Battery cells | Preload | Avail date |
|------------|-----------|------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|---------------|---------|------------|
| 4444-32U | i3-350M | 2.26 | | 2GB | 15.6" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | Blue | 6 | Pro 32 | May 10 |
| 4444-33U | i3-350M | 2.26 | | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | | Blue | 6 | Pro 64 | May 10 |
| 4444-34U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue | 6 | Pro 64 | May 10 |
| 4444-4EU | i3-370M | 2.40 | | 2GB | 15.6" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | Blue | 6 | Pro 64 | Jul 10 |
| 4444-4FU | i3-370M | 2.40 | | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Blue | 6 | Pro 64 | Jul 10 |
| 4444-4VU | i5-560M | 2.66 | 3.20 | 2GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue | 6 | Pro 64 | Sep 10 |

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

| | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Positioning Processor | Mainstream business performance; two spindles Intel® Core™ i3 processor i3-350M or i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M or i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 | | | |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) | | | |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Widescreen display Camera | 15.6" (395mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch None | | | | | | | | | | 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 15.6W" (WxDxH): 15" x 9.7" x 1.26–1.42"; 380mm x 247mm x 32–36mm 4-cell: from 5.48 lb (2.49kg); 6-cell: from 5.67 lb (2.57kg); 9-cell: from 6.01 lb (2.73kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell 4-cell: up to 2.8 hr; 6-cell: up to 4.9 hr; 9-cell: up to 8.0 hr | | | | | | | | | | 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 | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | | | | |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | | | | | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | | |

See footnotes for important warranty information

Ⓢ US model announced September 28, 2010; previous models on May 11 or July 6, 2010

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(RUB3-5) October 2010

ThinkPad® L512 4447 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Bat-tery cells | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|----------------|---------|------------|
| 4447-32U | i3-350M | 2.26 | | 2GB | 15.6" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | Blue | 6 | Pro 32 | May 10 |
| 4447-33U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | Finger | Blue | 6 | Pro 64 | May 10 |
| 4447-3EU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Blue | 6 | Pro 32 | Jul 10 |
| 4447-3HU | i3-370M | 2.40 | | 2GB | 15.6" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | Blue | 6 | Pro 64 | Jul 10 |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | Mainstream business performance; two spindles Intel® Core™ i3 processor i3-350M or i3-370M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 | | | |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch | | | |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | | | | | | | | | | | | | |
| Widescreen display Camera | 15.6" (395mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch None | | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 15.6W" (WxDxH): 15" x 9.7" x 1.26–1.42"; 380mm x 247mm x 32–36mm 4-cell: from 5.48 lb (2.49kg); 6-cell: from 5.67 lb (2.57kg); 9-cell: from 6.01 lb (2.73kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell 4-cell: up to 2.8 hr; 6-cell: up to 4.9 hr; 9-cell: up to 8.0 hr | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | | | |

See footnotes for important warranty information

US models announced July 6, 2010; previous models on May 11, 2010

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| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|--------------------|---------------------|------------|---------|------------|
| 2597-5YU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | Gobi 2000 | AT&T ²³ | None | Blue | Pro 32 | Apr 10 |
| 2597-6PU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | None | Blue | Pro 64 | Jul 10 |
| 2597-6QU | i3-370M | 2.40 | | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | None | Blue | Pro 64 | Jul 10 |

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

| | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Mainstream business performance; two spindles</i> Intel® Core™ i3 processor i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or Intel Core i5 processor i5-520M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 | | | |
| Memory | 2GB std / 8GB max ⁷ / PC3-10600 1333MHz 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) | | | |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | | | | | | | | | | | | | |
| Widescreen display Camera | 15.6" (395mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch None | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 15.6W" (WxDxH): 15" x 9.7" x 1.26–1.42"; 380mm x 247mm x 32–36mm 4-cell: from 5.48 lb (2.49kg); 6-cell: from 5.67 lb (2.57kg); 9-cell: from 6.01 lb (2.73kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell 4-cell: up to 2.8 hr; 6-cell: up to 4.9 hr; 9-cell: up to 8.0 hr | | | | | | | | | | 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | 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 | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | | | | | | | | | | | | | |
| Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | <i>Some:</i> AT&T®, contract required with service provider None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | | | | | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | | | | | | | | | | | | | |
| Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

See footnotes for important warranty information

US models announced July 6, 2010; previous model on April 20, 2010

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Preload | Workhorse (W) Gbl (G) Educ | Avail date |
|------------|-----------|------------|-----------------|------------|---------------------|--------|-------------------------------|--------------------------|---------------------|-----------------------|---------------------|------------|---------|----------------------------|------------|
| 2598-34U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 ²⁸ | Gobi 2000 | Verizon ¹⁶ | | | Pro 32 | | Apr 10 |
| 2598-35U | i5-520M | 2.40 | 2.93 | 4GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 | Gobi 2000 | Verizon | Finger | Blue | Pro 64 | W G | Apr 10 |
| 2598-42U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | | 250G 5400 | 11b/g/n | WWAN upg | | | Blue | Pro 32 | W G | Apr 10 |
| 2598-43U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | | Blue | Pro 32 | W G | Apr 10 |
| 2598-44U | i5-540M | 2.53 | 3.06 | 3GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | Finger | Blue | Pro 32 | W G | Apr 10 |
| 2598-52U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | 11b/g/n | WWAN upg | | | Blue | Pro 32 | | Apr 10 |
| 2598-53U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | Gobi 2000 | AT&T ²³ | | Blue | Pro 32 | | Apr 10 |
| 2598-54U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 250G 5400 | 11b/g/n | WWAN upg | | | Blue | Pro 32 | Edu | Apr 10 |
| 2598-55U | i5-540M | 2.53 | 3.06 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | | Blue | Pro 32 | Edu | Apr 10 |
| 2598-6NU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | Finger | Blue | Pro 64 | W G | May 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|---|--|
| Positioning Processor | Mainstream business performance; two spindles Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB, 3GB, or 4GB std / 8GB max ⁷ / PC3-10600 1333MHz 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 (only some listed) • Some: Education software - Adobe Digital School Collection - Instructor Resources (and DVD) - Learning Creative Suite 4 (DVD) - Photoshop Elements 7 (DVD) - Premiere Elements 7 (and DVD) - Acrobat 9 Professional (DVD) - Contribute CS4 (and DVD) - Soundbooth CS4 (and DVD) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm), 250GB (5400 rpm), or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | |
| Widescreen display Camera | 15.6" (395mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch None | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 15.6W" (WxDxH): 15" x 9.7" x 1.26–1.42"; 380mm x 247mm x 32–36mm <i>4-cell:</i> from 5.48 lb (2.49kg); <i>6-cell:</i> from 5.67 lb (2.57kg); <i>9-cell:</i> from 6.01 lb (2.73kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell <i>4-cell:</i> up to 2.8 hr; <i>6-cell:</i> up to 4.9 hr; <i>9-cell:</i> up to 8.0 hr | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | Supports ThinkVantage® technologies |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | <i>Some:</i> AT&T® or Verizon®, contract required with service provider None <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information

Ⓢ US model announced May 11, 2010; previous models on April 6 or April 20, 2010

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Preload | Workhorse (W) Global (G) GMP (P) | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|---------|----------------------------------|------------|
| 2550-42U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | | 250G 5400 | 11b/g/n | WWAN upg | | Blue | Pro 32 | W G P | Apr 10 |
| 2550-43U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | | Blue | Pro 32 | W G P | Apr 10 |
| 2550-44U | i5-540M | 2.53 | 3.06 | 3GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue | Pro 32 | W G P | Apr 10 |
| 2550-6NU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue | Pro 64 | W G P | May 10 |

- These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | Mainstream business performance; two spindles Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB or 3GB std / 8GB max ⁷ / PC3-10600 1333MHz 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Windows Live™ Toolbar • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) |
| SATA DVD±RW SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in 160GB⁸ (7200 rpm), 250GB (5400 rpm), or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™ | |
| Widescreen display Camera | 15.6" (395mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch None | |
| Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰ | 15.6W" (WxDxH): 15" x 9.7" x 1.26–1.42"; 380mm x 247mm x 32–36mm <i>4-cell:</i> from 5.48 lb (2.49kg); <i>6-cell:</i> from 5.67 lb (2.57kg); <i>9-cell:</i> from 6.01 lb (2.73kg) black Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell <i>4-cell:</i> up to 2.8 hr; <i>6-cell:</i> up to 4.9 hr; <i>9-cell:</i> up to 8.0 hr | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel HM55 Express Chipset One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor ¹¹ (VGA DB-15, DisplayPort), ethernet (RJ-45) | |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269Q codec / stereo speakers, 1.5 watt x 2 / volume up, down, mute buttons / digital mic, mic mute button, combo audio/mic jack | Supports ThinkVantage® technologies 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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, TCG 1.2-compliant <i>Some:</i> UPEK fingerprint reader on palm rest, swipe sensor, supports the security chip | ThinkPlus™.22 4-year LOR ²⁴ 9x5 NBD 45K6038 |
| 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 May 11, 2010; previous models on April 20, 2010

Memory

| | | |
|--|---------|--------------|
| 1GB PC3-10600 DDR3 L-H SODIMM | 55Y3709 | ann 03/02/10 |
| 1GB PC3-10600 DDR3 L-H SODIMM (25Pack) | 57Y4415 | ann 03/02/10 |
| 2GB PC3-10600 DDR3 L-H SODIMM | 55Y3710 | ann 03/02/10 |
| 2GB PC3-10600 DDR3 L-H SODIMM (25Pack) | 57Y4416 | ann 03/02/10 |
| 4GB PC3-10600 DDR3 L-H SODIMM | 55Y3711 | ann 03/02/10 |

Storage and removable storage

| | | |
|---|---------|--------------|
| SL410/510 500GB Disk SATA 3G/s (5400 rpm) | 43N3422 | ann 10/22/09 |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | ann 05/26/09 |
| USB 2.0 Portable Secure 160GB Hard Disk | 43R2018 | ann 11/18/08 |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | ann 11/18/08 |
| eSATA/USB 2.0 Secure 500GB Hard Drive | 57Y4400 | ann 01/07/10 |
| USB 2.0 Portable DVD Burner | 43N3264 | ann 01/05/10 |

Wireless WAN (Mini PCI Express)
Only WWAN upgradable models:

| | | |
|---|---------|--------------|
| ThinkPad Gobi™ 2000 Broadband Option | 78Y1399 | ann 01/07/10 |
| ThinkPad AT&T® Gobi 2000 Broadband Option | 78Y1398 | ann 01/07/10 |

ThinkPad Expansion

| | | |
|---|---------|--------------|
| Lenovo® Essential Notebook Stand | 45J9292 | ann 05/12/09 |
| USB Port Replicator with Digital Video | 45K1610 | ann 07/28/09 |
| ThinkPad Port Replicator Series 3 | 433610W | ann 06/23/09 |
| ThinkPad Mini Dock Series 3 ⁶¹ | 433710U | ann 06/23/09 |

⁶¹ When docked, ThinkPad Mini Dock Series 3 (433710U) Audio ports are inactive, ThinkPad Audio ports are active.

| | | |
|--|---------|--------------|
| ThinkPad Mini Dock Plus Series 3 ⁶¹ | 433810U | ann 06/23/09 |
|--|---------|--------------|

⁶¹ When docked, ThinkPad Mini Dock Plus Series 3 (433810U) eSATA & Audio ports are inactive, ThinkPad eSATA & Audio ports are active.

| | | |
|--|---------|--------------|
| ThinkPad Mini Dock Plus Series 3 - Mobile WS | 433820U | ann 01/07/10 |
|--|---------|--------------|

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 |
| Ultraslim Wireless Keyboard and Mouse ⁵² | 57Y4700 | ann 09/15/09 |

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

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

Mouse

| | | |
|--|---------|--------------|
| Lenovo Optical Mouse (USB) | 06P4069 | ann 05/21/03 |
| Lenovo Laser Mouse (USB) | 41U3074 | ann 01/23/07 |
| ThinkPad USB Laser Mouse | 57Y4635 | ann 12/15/09 |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | ann 08/27/02 |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | ann 06/04/02 |
| ThinkPad Bluetooth Laser Mouse | 41U5008 | ann 01/22/08 |

Multimedia

| | | |
|----------------------------|---------|--------------|
| ThinkPad In-Ear Headphones | 57Y4488 | ann 01/07/10 |
|----------------------------|---------|--------------|

Modem

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

Security

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

Batteries

| | | |
|---|---------|--------------|
| ThinkPad Battery 55+ (6-cell) | 57Y4185 | ann 03/30/10 |
| ThinkPad Battery 55++ (9-cell) | 57Y4186 | ann 03/30/10 |
| ThinkPad External Battery Charger ⁴⁴ | 40Y7625 | ann 09/20/05 |

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

More information at www.lenovo.com/alldaycomputing

| | | |
|---------------------------------------|---------|--------------|
| ThinkPad 65W AC Adapter ⁴⁵ | 40Y7696 | ann 01/05/06 |
|---------------------------------------|---------|--------------|

⁴⁵ Only compatible with the integrated graphics models.

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

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

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

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

More information at www.lenovopowertips.com

Carrying Cases
Up to 15.4" widescreen models:

| | | |
|--------------------------------|---------|--------------|
| ThinkPad 15W Case Sleeve | 51J0477 | ann 08/18/09 |
| Lenovo Business Messenger Case | 51J0475 | ann 08/18/09 |
| Lenovo Messenger Max | 41U5253 | ann 05/01/07 |
| ThinkPad Business Topload Case | 43R2476 | ann 05/13/08 |
| ThinkPad Business Backpack | 43R2482 | ann 05/13/08 |

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

Monitors

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

Monitor Accessories⁴⁶

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

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

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

Other accessories at www.lenovo.com/accessories
 Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad®



Lenovo® ThinkPad T410



Lenovo ThinkPad T410



Lenovo ThinkPad T410



Lenovo ThinkPad T410



Lenovo ThinkPad T410



ThinkPad Mini Dock Series 3
433710U

ThinkPad® T410 2516 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | CCFL or LED | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Bat-tery cells | Intel vPro | Preload | Avail date |
|------------|-----------|----------------------|--------|---------------------|-------------|--------|-------------------------------|-----------------------|---------------------|---------------------|------------|----------------|------------|---------|------------|
| 2516-ADU | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA | LED | 2.0M | 250G 5400 | 11b/g/n | None | None | 6 | No | Pro 32 | Jan 10 |
| 2516-DCU | i5-560M | 2.66 | 3.20 | 2GB | 14.1" WXGA | LED | 2.0M | 320G 7200 | 11b/g/n | None | None | 6 | No | Pro 64 | Sep 10 |

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

| | | |
|---|---|---|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 250GB⁸ (5400 rpm) or 320GB⁸ (7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | Supports ThinkVantage® technologies |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 Battery - life ¹⁰ | Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.6 hr; <i>9-cell:</i> up to 11 hr; <i>9-cell plus Slice battery:</i> up to 22 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | 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 |
| PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card None 56K V.92 ⁶ modem None Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information

US model announced September 28, 2010; previous model on January 7, 2010

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(NZ1-1) October 2010

ThinkPad® T410 2518 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Bat- tery Intel vPro Preload | Avail date |
|------------|-----------|----------------------|--------|---------------------|-------------|-------------------------------|-----------------------|--------------------------|-----------|----------------------------------|----------------------------------|------------|
| 2518-C2U | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA | 2.0M | 250G 5400 | Intel 6200 ²⁸ | Gobi 2000 | AT&T ²³ | Finger Blue 6 vPro Pro 32 Jan 10 | |
| 2518-F3U | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA | 2.0M | 250G 5400 | 11b/g/n | WWAN upg | | Blue 6 Pro 32 Jan 10 | |
| 2518-F6U | i5-520M | 2.40 | 2.93 | 4GB | 14.1" WXGA+ | 2.0M | 80G SSD | Intel 6200 | WWAN upg | Finger Blue 9 vPro Pro 32 Jan 10 | | |
| 2518-4HU | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger Blue 6 vPro Pro 32 Mar 10 | | |
| 2518-QBU | i5-540M | 2.53 | 3.06 | 4GB | 14.1" WXGA | 2.0M | 160G SSD | Intel 6200 | WWAN upg | Finger Blue 6 vPro Pro 64 Jul 10 | | |
| 2518-AHU | i5-560M | 2.66 | 3.20 | 2GB | 14.1" WXGA | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Blue 6 vPro Pro 64 Sep 10 | | |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M, i5-540M, or i5-560M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Tools • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 80GB⁸ or 160GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 250GB (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | |
| Widescreen display | <i>Some:</i> 14.1" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 6.6 hr; <i>9-cell:</i> up to 11 hr; <i>9-cell plus Slice battery:</i> up to 22 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | Supports ThinkVantage® technologies |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Carrier Modem Bluetooth™ Ethernet | <i>Some:</i> AT&T®, contract required with service provider 56K V.92 ⁵ modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) | ThinkPlus™, 22 3-year LOR ²⁴ 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6023 ThinkPlus 4-year P&L P/U Depot 45K6024 ThinkPlus 5-year P&L P/U Depot 45K6025 |
| Intel AMT Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus 5-year P&L P/U Depot 45K6025 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information

US model announced September 28, 2010; previous models on January 7, March 2, or July 6, 2010

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(NZ1-3) October 2010

ThinkPad® T410 2518 (Optimus) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base (GHz) | turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ | rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Intel vPro | Preload | Avail date |
|------------|-----------|----------------|-------------|--------|---------------------|--------|---------------------------|------|--------------------------|---------------------|---------------------|------------|------------|---------|------------|
| 2518-AJU | i5-560M | 2.66 | 3.20 | 2GB | 14.1" WXGA+ | 2.0M | 320G | 7200 | Intel 6200 ²⁸ | WWAN upg | None | Blue | vPro | Pro 64 | Sep 10 |

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | | | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 320GB⁸ (7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | | |
| Optimus graphics ³⁷ | NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics in processor, and NVIDIA Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | | | | | | | | | | | | | | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.5 hr; <i>9-cell:</i> up to 10.9 hr; <i>9-cell plus Slice battery:</i> up to 21.9 hr | | | | | | | | | | Supports ThinkVantage® technologies | | | | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | | |
| Limited warranty ¹² 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced September 28, 2010

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(NZ1-17) December 2010

ThinkPad® T410 2516 (Discrete) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | CCFL or LED | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Bat-tery Intel vPro | Preload | Avail date | |
|------------|-----------|------------|-----------------|--------|---------------------|-------------|--------|-------------------------------|-----------------------|---------------------|---------------------|------------|---------------------|---------|------------|--------|
| 2516-AEU | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA | LED | 2.0M | 320G 7200 | 11b/g/n | None | None | Blue | 9 | No | Pro 32 | Jan 10 |

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

| | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 | | | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 320GB⁸ (7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 256MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 Battery - life ¹⁰ | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 5.0 hr; <i>9-cell:</i> up to 8.3 hr; <i>9-cell plus Slice battery:</i> up to 16.6 hr | | | | | | | | | | | | | | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | | 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 | | | |
| PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card None 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced January 7, 2010

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(NZ1-4) January 2010

ThinkPad® T410 2518 (Discrete) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base (GHz) | turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Intel vPro | Preload | Avail date |
|------------|-----------|----------------|-------------|------------|---------------------|--------|-------------------------------|--------------------------|---------------------|-----------------------|---------------------|------------|------------|---------|------------|
| 2518-C4U | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA+ | 2.0M | 320G 7200 | 11b/g/n | Gobi 2000 | Verizon ¹⁶ | Fing | Blue | Pro 32 | Jan 10 | |
| 2518-F5U | i5-540M | 2.53 | 3.06 | 4GB | 14.1" WXGA+ | 2.0M | 500G 7200 | WiMAX | WWAN upg | | Fing | Blue | vPro | Pro 32 | Jan 10 |
| 2518-4KU | i5-520M | 2.40 | 2.93 | 4GB | 14.1" WXGA+ | 2.0M | 320G 7200 | Intel 6200 ²⁸ | Gobi 2000 | Verizon | Fing | Blue | vPro | Pro 64 | Mar 10 |
| 2518-4LU | i5-540M | 2.53 | 3.06 | 4GB | 14.1" WXGA+ | 2.0M | 320G 7200 | WiMAX | WWAN upg | | Fing | Blue | vPro | Pro 64 | Mar 10 |
| 2518-QCU | i5-540M | 2.53 | 3.06 | 4GB | 14.1" WXGA+ | 2.0M | 160G SSD | Intel 6200 | WWAN upg | | | Blue | vPro | Pro 64 | Jul 10 |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 160GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 320GB (7200 rpm) or 500GB (7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 256MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys | |
| TrackPoint® | TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass | |
| Touchpad | UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch | |
| ThinkLight™ | Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm | |
| Weight ² | 6-cell: starting at 5.0 lb (2.27kg); 9-cell: starting at 5.35 lb (2.43kg) | |
| Case color | Black | |
| Case material | <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | |
| Battery - type | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom | |
| Battery - life ¹⁰ | 6-cell: up to 5.0 hr; 9-cell: up to 8.3 hr; 9-cell plus Slice battery: up to 16.6 hr | |
| Chipset | Mobile Intel QM57 Express Chipset | |
| ExpressCard/34 | One slot (ExpressCard/34) | |
| Smart Card read | None | |
| Multicard reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | |
| Ports | Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | Supports ThinkVantage® technologies |
| PCIe Mini Card | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> 11a/b/g/n and WiMAX wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N + WiMAX 6250, 2x2 AGN + 1x2 WiMAX | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | |
| Gobi™ 2000 | | |
| Carrier | <i>Some:</i> Verizon®, contract required with service provider | |
| Modem | 56K V.92 ⁶ modem | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 45K6021 |
| Ethernet | <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | ThinkPlus 4-year LOR 9x5 NBD 45K6022 |
| Intel AMT | Intel Active Management Technology (iAMT) | ThinkPlus 5-year LOR 9x5 NBD 45K6024 |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus 4-year P&L P/U Depot 45K6023 |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | ThinkPlus 5-year P&L P/U Depot 45K6025 |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Fingerprint reader | <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² 3-years/1-yr battery - depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information

US model announced July 6, 2010; previous models on January 7 or March 2, 2010

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ThinkPad® T410 2519 (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory (GHz) | Wide-screen display | CCFL or LED | Camera | Disk SATA GB ⁸ rpm | SATA optical | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Blue-tooth | Intel vPro | Preload | Avail date |
|------------|-----------|----------------------|--------------|---------------------|-------------|--------|-------------------------------|--------------|-----------------------|--------------------------|------------|------------|---------|---------------|
| 2519-8AU | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA | LED | 2.0M | 250G 5400 | DVD±RW | Intel 6200 ²⁸ | WWAN upg | Blue | vPro | Pro 32 Jan 10 |

• This system is Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|---|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 250GB⁸ (5400 rpm) / SATA 3.0Gb/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" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | Supports ThinkVantage® technologies |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm 6-cell: starting at 5.0 lb (2.27kg); 9-cell: starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 Battery - life ¹⁰ | Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom 6-cell: up to 6.6 hr; 9-cell: up to 11 hr; 9-cell plus Slice battery: up to 22 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | 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 |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information
US model announced January 7, 2010

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(NZ1-7) January 2010

| Type-model | Processor | Max Base turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger-print reader | Bat-tery Intel vPro | Workhorse (W) Global (G) Avail date |
|------------|-----------|----------------------|--------------|---------------------|-------------|-------------------------------|------------------------------|-------------------------|---------------------|---------------------|-------------------------------------|
| 2522-60U | i5-540M | 2.53 | 3.06 | 2GBx1 1066 | 14.1" WXGA+ | 2.0M 320G 7200 | Intel 6200 ²⁸ | Gobi AT&T ²³ | Fing Blue | 6 vPro Pro 32 | Jan 10 |
| 2522-22U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA | 320G 7200 | Intel 6200 upg | | Fing Blue | 6 vPro Pro 32 | G Jan 10 |
| 2522-2AU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA | 2.0M 250G 5400 | Intel 6200 upg | | Fing Blue | 6 vPro Pro 32 | Jan 10 |
| 2522-25U | i5-540M | 2.53 | 3.06 | 2GBx2 1066 | 14.1" WXGA+ | 320G 7200 | Intel 6200 upg | | Fing Blue | 6 vPro Pro 32 | W G Jan 10 |
| 2522-48U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA | 2.0M 320G 7200 | Intel 6200 upg | Gobi AT&T | Fing | 6 vPro Pro 32 | Jan 10 |
| 2522-49U | i5-520M | 2.40 | 2.93 | 2+1GB 1066 | 14.1" WXGA | 2.0M 80G SSD | Intel 6300 ²⁸ upg | | Fing Blue | 6 vPro Pro 32 | Jan 10 |
| 2522-27U | i5-540M | 2.53 | 3.06 | 4GBx1 1333 | 14.1" WXGA | 250G FDE | Intel 6200 upg | | Fing Blue | 6 vPro Pro 64 | G Mar 10 |
| 2522-28U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA | 250G 5400 | Intel 6200 upg | | Blue | 9 vPro Pro 64 | G Mar 10 |
| 2522-4CU | i5-540M | 2.53 | 3.06 | 2GBx1 1066 | 14.1" WXGA | 2.0M 320G 7200 | WiMAX upg | | Blue | 6 vPro Pro 32 | Mar 10 |
| 2522-4DU | i5-540M | 2.53 | 3.06 | 2GBx2 1066 | 14.1" WXGA | 2.0M 320G 7200 | Intel 6200 upg | | Blue | 6 vPro Pro 64 | Mar 10 |
| 2522-29U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA | 2.0M 160G 7200 | Intel 6200 upg | | Blue | 6 vPro Pro 32 | G Apr 10 |

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

| | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | |
| Memory | 2GB, 3GB, or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 80GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 160GB (7200 rpm), 250GB (5400 rpm), 320GB (7200 rpm), or 250GB (7200 rpm) Full Disk Encryption [FDE] / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | | | | | | | | | |
| Widescreen display | <i>Some:</i> 14.1" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | | | | | | | | | |
| Camera | <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | | | | | | | | | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 6.6 hr; <i>9-cell:</i> up to 11 hr; <i>9-cell plus Slice battery:</i> up to 22 hr | | | | | | | | | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WiMAX Intel 6300 ²⁸ WWAN upg Gobi™ 2000 Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots <i>Some:</i> 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> 11a/b/g/n and WiMAX wireless, PCIe Half Mini Card, Intel Centrino Advanced-N + WiMAX 6250, 2x2 AGN + 1x2 WiMAX <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider <i>Some:</i> AT&T®, contract required with service provider 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades²² available | | | | | | | | | |
| | Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Professional 32 - <i>Some:</i> Genuine Windows 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | | | | | | | |
| | Supports ThinkVantage® technologies | | | | | | | | | |
| | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 3-year LOR ²⁴ 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 6, 2010; previous models on January 7 or March 2, 2010

ThinkPad® T410 2522 (Windows 7) - July 2010

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Bat- tery Intel vPro | Preload | Avail date |
|------------|-----------|----------------------|--------------|---------------------|------------|-------------------------------|--------------------------|---------------------|---------------------|----------------------|---------|------------|
| 2522-KGU | i5-520M | 2.40 | 2.93 | 2GBx2 1066 | 14.1" WXGA | 2.0M 160G 7200 | Intel 6200 ²⁸ | WWAN upg | Fing Blue | 9 vPro | Pro 64 | Jul 10 |
| 2522-KHU | i5-540M | 2.53 | 3.06 | 2GBx2 1066 | 14.1" WXGA | 2.0M 160G SSD | Intel 6200 | WWAN upg | Fing Blue | 9 vPro | Pro 64 | Jul 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | |
| Memory | 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | |
| SATA DVD±RW Ultrabay Slim | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable | | | | | | | | | | | |
| SATA disk | One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some: 160GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high</i> <i>Some: 160GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™</i> <i>All: removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive</i> | | | | | | | | | | | |
| Widescreen display | 14.1" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | | | | | | | | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915)</i> | | | | | | | | | | | |
| Keyboard | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys | | | | | | | | | | | |
| TrackPoint® | TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass | | | | | | | | | | | |
| Touchpad | UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch | | | | | | | | | | | |
| ThinkLight™ | Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | |
| Dimensions ³ | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm | | | | | | | | | | | |
| Weight ² | 6-cell: starting at 5.0 lb (2.27kg); 9-cell: starting at 5.35 lb (2.43kg) | | | | | | | | | | | |
| Case color | Black | | | | | | | | | | | |
| Case material | <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | | | | | | | | | | | |
| Battery - type | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery | | | | | | | | | | | |
| Battery - life ¹⁰ | 6-cell: up to 6.6 hr; 9-cell: up to 11 hr; 9-cell plus Slice battery: up to 22 hr | | | | | | | | | | Supports ThinkVantage® technologies | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | |
| ExpressCard/34 | One slot (ExpressCard/34) | | | | | | | | | | | |
| Smart Card read | None | | | | | | | | | | | |
| Multicard reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | | | | | | | | | | | |
| Ports | Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | |
| PCIe Mini Card | Two PCI Express Mini Card slots | | | | | | | | | | | |
| Intel 6200 ²⁸ | 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 | | | | | | | | | | | |
| WWAN upg | Wireless WAN upgradable | | | | | | | | | | | |
| Modem | 56K V.92 ⁶ modem | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 45K6021 | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | ThinkPlus 4-year LOR 9x5 NBD 45K6022 | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | ThinkPlus 5-year LOR 9x5 NBD 45K6024 | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | ThinkPlus 4-year P&L P/U Depot 45K6023 | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | ThinkPlus 5-year P&L P/U Depot 45K6025 | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | |
| Fingerprint reader | UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | |

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

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ThinkPad® T410 2522 (Optimus) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base (GHz) | turbo (GHz) | Memory (MHz) | Wide-screen display | Graphics controller memory | Disk SATA GB ⁵ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Intel vPro | Preload | Avail date |
|------------|-----------|----------------|-------------|--------------|---------------------|----------------------------|-------------------------------|--------------------------|---------------------|---------------------|------------|---------|------------|
| 2522-88U | i5-560M | 2.66 | 3.20 | 2GBx1 1066 | 14.1" WXGA | 512MB | 320G 7200 | Intel 6200 ²⁸ | WWAN upg | None | vPro | Pro 64 | Sep 10 |

- **This model has a depot repair service 3-year limited warranty**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | |
|--|---|---|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-560M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 |
| Memory | 2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 320GB⁸ (7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | |
| Optimus graphics ³⁷ | NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics in processor, and NVIDIA Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915)</i> | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 6.5 hr; <i>9-cell:</i> up to 10.9 hr; <i>9-cell plus Slice battery:</i> up to 21.9 hr | Supports ThinkVantage® technologies |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information
US model announced September 28, 2010

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ThinkPad® T410 2519 (Discrete) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | CCFL or LED Camera | Disk SATA GB ⁸ rpm | SATA optical | PCIe Mini Card 802.11 | PCIe Mini Card Blue/WWAN | Bat-tery Intel vPro | Preload | Avail date |
|------------|-----------|----------------------|--------|---------------------|--------------------|-------------------------------|--------------|--------------------------|--------------------------|---------------------|---------|------------|
| 2519-8BU | i5-520M | 2.40 2.93 | 2GB | 14.1" WXGA+ | LED 2.0M | 320G 7200 | DVD±RW | Intel 6200 ²⁸ | None | Yes 6 vPro | Pro 32 | Jan 10 |

• This system is Microsoft® Office 2010 Product Key Ready (O10PKR)

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|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 320GB⁸ (7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 256MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | Supports ThinkVantage® technologies |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 Battery - life ¹⁰ | Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 5.0 hr; <i>9-cell:</i> up to 8.3 hr; <i>9-cell plus Slice battery:</i> up to 16.6 hr | | | | | | | | | | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | 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 |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 None 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |

See footnotes for important warranty information
US model announced January 7, 2010

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(NZ1-9) January 2010

ThinkPad® T410 2522 (Discrete) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Battery Intel vPro | Workhorse (W) Global (G) Preload | Avail date |
|------------|-----------|----------------------|-----------------|---------------------|--------|-------------------------------|--------------------------|---------------------|-----------------------|---------------------|--------------------|----------------------------------|------------|
| 2522-23U | i5-520M | 2.40 | 2.93 2GB | 14.1" WXGA | | 320G 7200 | Intel 6200 ²⁸ | WWAN upg | | Finger 9 | vPro Pro 32 | G Jan 10 | |
| 2522-24U | i5-540M | 2.53 | 3.06 2GB | 14.1" WXGA+ | 2.0M | 128G SSD | Intel 6200 | WWAN upg | | Finger 9 | vPro Pro 32 | G Jan 10 | |
| 2522-2BU | i5-520M | 2.40 | 2.93 2GB | 14.1" WXGA+ | 2.0M | 320G 7200 | Intel 6200 | Gobi 2000 | Verizon ¹⁶ | Finger 9 | vPro Pro 32 | Jan 10 | |
| 2522-26U | i5-520M | 2.40 | 2.93 2GB | 14.1" WXGA+ | 2.0M | 80G SSD | Intel 6200 | WWAN upg | | Finger 6 | vPro Pro 32 | G Jan 10 | |
| 2522-4AU | i5-520M | 2.40 | 2.93 2GB | 14.1" WXGA | | 250G 5400 | Intel 6200 | WWAN upg | | Finger 9 | vPro Pro 32 | Jan 10 | |
| 2522-4BU | i5-520M | 2.40 | 2.93 2GB | 14.1" WXGA+ | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | Finger 6 | vPro Pro 32 | Jan 10 | |
| 2522-4EU | i5-540M | 2.53 | 3.06 4GB | 14.1" WXGA | | 320G 7200 | Intel 6200 | WWAN upg | | Finger 6 | vPro Pro 64 | Mar 10 | |
| 2522-4FU | i5-540M | 2.53 | 3.06 2GB | 14.1" WXGA+ | 2.0M | 320G 7200 | Intel 6200 | Gobi 2000 | AT&T ²³ | 6 | vPro Pro 32 | Mar 10 | |
| 2522-4TU | i5-520M | 2.40 | 2.93 2GB | 14.1" WXGA | | 160G 7200 | Intel 6200 | WWAN upg | | Finger 6 | vPro Pro 32 | Apr 10 | |
| 2522-KJU | i5-540M | 2.53 | 3.06 4GB | 14.1" WXGA | 2.0M | 160G SSD | Intel 6200 | WWAN upg | | Finger 9 | vPro Pro 64 | Jul 10 | |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 80GB⁸, 128GB, or 160GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 160GB (7200 rpm), 250GB (5400 rpm), or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | |
| Widescreen display | <i>Some:</i> 14.1" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | |
| Camera | <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 256MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 5.0 hr; <i>9-cell:</i> up to 8.3 hr; <i>9-cell plus Slice battery:</i> up to 16.6 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | Supports ThinkVantage® technologies |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | <i>Some:</i> AT&T® or Verizon®, contract required with service provider 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² 3-years/1-yr battery - depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information

US model announced July 6, 2010; previous models on January 7, March 2, or April 6, 2010

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ThinkPad® T410 2522 (Discrete) - Windows 7 (May 2010)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory (MHz) | Wide-screen display | Graphics controller memory | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Intel vPro | Workhorse (W) Global (G) Preload | Avail date |
|------------|-----------|----------------------|--------------|---------------------|----------------------------|-------------------------------|-----------------------|-----------------------------------|---------------------|------------|----------------------------------|------------|
| 2522-K2U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA | 512MB | 160G 7200 | Intel 6200 ²⁸ WWAN upg | | vPro | Pro 64 G | May 10 |
| 2522-K3U | i5-540M | 2.53 | 3.06 | 4GBx1 1333 | 14.1" WXGA+ | 512MB | 320G 7200 | WWAN upg | Finger | vPro | Pro 64 G | May 10 |
| 2522-K4U | i7-620M | 2.66 | 3.33 | 4GBx1 1333 | 14.1" WXGA+ | 512MB | 320G 7200 | Intel 6200 WWAN upg | Finger | vPro | Pro 64 G | May 10 |
| 2522-K5U | i5-540M | 2.53 | 3.06 | 2GBx1 1066 | 14.1" WXGA+ | 512MB | 160G 7200 | Intel 6200 WWAN upg | Finger | vPro | Pro 64 | May 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

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|--|---|--|--|--|--|--|--|--|--|--|---|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core , or Intel Core i7 processor i7-620M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i5-520M/i5-540M</i> : 3MB cache; <i>i7-620M</i> : 4MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed) | |
| Memory | 2GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 160GB⁸ (7200 rpm) or 320GB⁸ (7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | | | | | | | | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm 6-cell: starting at 5.0 lb (2.27kg); 9-cell: starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | | | | | | | | | | | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery 6-cell: up to 5.0 hr; 9-cell: up to 8.3 hr; 9-cell plus Slice battery: up to 16.6 hr | | | | | | | | | | | Supports ThinkVantage® technologies |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | ThinkPlus™, 22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | |

See footnotes for important warranty information
 US models announced May 4, 2010

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 (NZ1-15) May 2010

| Type-model | Processor | Max Base (GHz) | turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Battery cells | Intel vPro | Workhorse (W) Global (G) Preload GMP (P) | Avail date |
|------------|-----------|----------------|-------------|--------------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|---------------|------------|--|------------|
| 2537-22U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA | | 320G 7200 | Intel 6200 ²⁸ | WWAN upg | Finger 6 | vPro | Pro 32 | G P Jan 10 | |
| 2537-25U | i5-540M | 2.53 | 3.06 | 2GBx2 1066 | 14.1" WXGA+ | | 320G 7200 | Intel 6200 | WWAN upg | Finger 6 | vPro | Pro 32 | W G P Jan 10 | |
| 2537-27U | i5-540M | 2.53 | 3.06 | 4GBx1 1333 | 14.1" WXGA | | 250G FDE | Intel 6200 | WWAN upg | Finger 6 | vPro | Pro 64 | G P Mar 10 | |
| 2537-28U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA | | 250G 5400 | Intel 6200 | WWAN upg | 9 | vPro | Pro 64 | G P Mar 10 | |
| 2537-29U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | 6 | vPro | Pro 32 | G P Apr 10 | |

- These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|---|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 160GB⁸ (7200 rpm), 250GB (5400 rpm), 320GB (7200 rpm), or 250GB (7200 rpm) Full Disk Encryption [FDE] / SATA 3.0Gb/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" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | |
| Camera | <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @ 60Hz; 2048x1536 (VGA) @ 75Hz; 1920x1200 @ 60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 6.6 hr; <i>9-cell:</i> up to 11 hr; <i>9-cell plus Slice battery:</i> up to 22 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | ThinkPlus™.22 4-year LOR ²⁴ 9x5 NBD 45K6038 |
| 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 April 6, 2010; previous models on January 7 or March 2, 2010

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ThinkPad® T410 2537 (Discrete) - Onsite (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | CCFL or LED Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Battery cells | Intel vPro | Pre-load | Workhorse (W) Global (G) GMP (P) | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------------------|-------------------------------|--------------------------|---------------------|---------------|------------|----------|----------------------------------|------------|
| 2537-23U | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA | LED | 320G 7200 | Intel 6200 ²⁸ | WWAN upg | 9 | vPro | Pro 32 | G P | Jan 10 |
| 2537-24U | i5-540M | 2.53 | 3.06 | 2GB | 14.1" WXGA+ | LED 2.0M | 128G SSD | Intel 6200 | WWAN upg | 9 | vPro | Pro 32 | G P | Jan 10 |
| 2537-26U | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA+ | LED 2.0M | 80G SSD | Intel 6200 | WWAN upg | 6 | vPro | Pro 32 | G P | Jan 10 |

- These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|---|---|---|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| 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 | |
| SATA DVD±RW Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 80GB⁸ or 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | |
| Widescreen display | <i>Some:</i> 14.1" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | |
| Camera | <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 256MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 5.0 hr; <i>9-cell:</i> up to 8.3 hr; <i>9-cell plus Slice battery:</i> up to 16.6 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁵ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, 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 | |
| | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | |

See footnotes for important warranty information
US models announced January 7, 2010

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(NZ1-12) January 2010

ThinkPad® T410 2522 (Education) - Windows 7

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | CCFL or LED Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Bat- tery Intel vPro Preload | Avail date |
|------------|-----------|----------------------|-----------------|---------------------|--------------------|-------------------------------|--------------------------|---------------------|---------------------|------------------------------|------------|
| 2522-52U | i5-520M | 2.40 | 2.93 2GB | 14.1" WXGA | LED 2.0M | 250G 5400 | Intel 6200 ²⁸ | | | 6 vPro Pro 32 | Jan 10 |
| 2522-53U | i5-520M | 2.40 | 2.93 2GB | 14.1" WXGA | LED 2.0M | 320G 5400 | Intel 6200 | | Finger Blue | 6 vPro Pro 32 | Jan 10 |
| 2522-54U | i5-520M | 2.40 | 2.93 3GB | 14.1" WXGA+ | LED 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger Blue | 6 vPro Pro 32 | Jan 10 |

- **These models have a depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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™ i5 processor i5-520M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 |
| Memory | 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 | Preloaded applications¹⁴ (only some listed) • <i>54U model:</i> Education software - Microsoft® Office Ultimate 2007 Academic Edition (and CD) • Education software - Microsoft® Office OneNote® 2007 (and CD) - Adobe Digital School Collection - Instructor Resources (and DVD) - Learning Creative Suite 4 (DVD) - Photoshop Elements 7 (DVD) - Premiere Elements 7 (and DVD) - Acrobat 9 Professional (DVD) - Contribute CS4 (and DVD) - Soundbooth CS4 (and DVD) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 250GB⁸ (5400 rpm) or 320GB (5400 or 7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.6 hr; <i>9-cell:</i> up to 11 hr; <i>9-cell plus Slice battery:</i> up to 22 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable 56K V.92 ⁵ modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty¹² 3-years/1-yr battery - depot repair service / service upgrades²² available | | |

See footnotes for important warranty information
US models announced January 7, 2010

ThinkPad® T410 2522 (Discrete) - Education (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | CCFL or LED | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Bat- tery Intel vPro | Preload | Avail date |
|------------|-----------|----------------------|--------|---------------------|-------------|--------|-------------------------------|-----------------------|--------------------------|---------------------|----------------------|----------|--------------------|
| 2522-55U | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA | LED | 2.0M | 320G 5400 | Intel 6200 ²⁸ | Finger | Blue | 6 | vPro Pro 32 Jan 10 |
| 2522-56U | i5-520M | 2.40 | 2.93 | 3GB | 14.1" WXGA+ | LED | 2.0M | 320G 7200 | Intel 6200 WWAN upg | Finger | Blue | 9 | vPro Pro 32 Jan 10 |

- **These models have an depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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™ i5 processor i5-520M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 |
| Memory | 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 | Preloaded applications¹⁴ (only some listed) • <i>56U model:</i> Education software - Microsoft® Office Ultimate 2007 Academic Edition (and CD) • Education software - Microsoft® Office OneNote® 2007 (and CD) - Adobe Digital School Collection - Instructor Resources (and DVD) - Learning Creative Suite 4 (DVD) - Photoshop Elements 7 (DVD) - Premiere Elements 7 (and DVD) - Acrobat 9 Professional (DVD) - Contribute CS4 (and DVD) - Soundbooth CS4 (and DVD) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 320GB⁸ (5400 or 7200 rpm) / SATA 3.0Gb/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™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| Widescreen display | <i>Some:</i> 14.1" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | • ThinkVantage® technologies |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 256MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @ 60Hz; 2048x1536 (VGA) @ 85Hz; 1920x1200 @ 60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 6.6 hr; <i>9-cell:</i> up to 11 hr; <i>9-cell plus Slice battery:</i> up to 22 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 45K6021 |
| Modem | 56K V.92 ⁶ modem | ThinkPlus 4-year LOR 9x5 NBD 45K6022 |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | ThinkPlus 5-year LOR 9x5 NBD 45K6024 |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | ThinkPlus 4-year P&L P/U Depot 45K6023 |
| Intel AMT | Intel Active Management Technology (iAMT) | ThinkPlus 5-year P&L P/U Depot 45K6025 |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information
US models announced January 7, 2010

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(NZ1-14) January 2010

ThinkPad® T410i 2516 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | GHz | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Battery Intel vPro | Preload | Avail date |
|------------|-----------|------|--------|---------------------|--------|-------------------------------|-----------------------|---------------------|------------|---------------------|------------|--------------------|---------|------------|
| < 2516-AQU | i3-330M | 2.13 | 2GB | 14.1" WXGA | 2.0M | 250G 5400 | Intel 1000 | | | None | None | 6 No | Pro 32 | Feb 10 |
| 2516-72U | i3-370M | 2.40 | 2GB | 14.1" WXGA | 2.0M | 250G 5400 | Intel 1000 | | | None | None | 6 No | Pro 64 | Jul 10 |
| 2516-73U | i3-370M | 2.40 | 2GB | 14.1" WXGA | 2.0M | 320G 7200 | Intel 1000 | | | None | None | 6 No | Pro 64 | Jul 10 |
| 2516-74U | i3-370M | 2.40 | 2GB | 14.1" WXGA | 2.0M | 320G 7200 | Intel 1000 | Gobi 2000 | selectable | None | None | 6 No | Pro 64 | Jul 10 |

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

| | | |
|--|---|---|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i3 processor i3-330M or i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 250GB⁸ (5400 rpm) or 320GB⁸ (7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | Supports ThinkVantage® technologies |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 Battery - life ¹⁰ | Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.6 hr; <i>9-cell:</i> up to 11 hr; <i>9-cell plus Slice battery:</i> up to 22 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | 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 |
| PCIe Mini Card Intel 1000 Gobi™ 2000 Carrier | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS <i>Some:</i> User selectable at first boot, AT&T®, Verizon®, or Sprint®, contract required with service provider | |
| Modem Bluetooth™ Ethernet Intel AMT Audio support | 56K V.92 ⁶ modem None Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information

2516 US models announced July 6, 2010; previous model on February 2, 2010

< US model withdrawn effective July 31, 2010

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(NZ11-2) July 2010

ThinkPad® T410i 2518 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | GHz | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Bat-tery Intel vPro | Preload | Avail date |
|------------|-----------|------|--------|---------------------|--------|-------------------------------|-----------------------|---------------------|------------|---------------------|------------|---------------------|-----------|------------|
| 2518-JWU | i3-370M | 2.40 | 2GB | 14.1" WXGA | 2.0M | 320G 7200 | Intel 1000 | Gobi 2000 | selectable | | Blue | 9 | No Pro 64 | Jul 10 |
| 2518-JXU | i3-370M | 2.40 | 2GB | 14.1" WXGA | 2.0M | 250G 5400 | Intel 1000 | WWAN upg | | Finger | | 9 | No Pro 64 | Jul 10 |
| 2518-MHU | i3-370M | 2.40 | 2GB | 14.1" WXGA | 2.0M | 250G 5400 | Intel 1000 | | | Finger | | 9 | No Pro 64 | Jul 10 |

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i3 processor i3-370M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 250GB⁸ (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/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" (358mm) WXGA (1280x800) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | | | | | | | | | | | | | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 6.6 hr; <i>9-cell:</i> up to 11 hr; <i>9-cell plus Slice battery:</i> up to 22 hr | | | | | | | | | | | | | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| PCIe Mini Card Intel 1000 WWAN upg Gobi™ 2000 Carrier | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS <i>Carrier:</i> User selectable at first boot, AT&T®, Verizon®, or Sprint®, contract required with service provider | | | | | | | | | | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| Modem Bluetooth™ Ethernet Intel AMT Audio support | 56K V.92 ⁶ modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | | | |
| Limited warranty ¹² 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

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

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ThinkPad® T410i 2518 (Discrete) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | GHz | Memory | Wide-screen display | CCFL or LED | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Blue/Fing | Intel vPro | Preload | Avail date |
|------------|-----------|------|--------|---------------------|-------------|--------|-------------------------------|--------------------------|---------------------|---------|-----------|------------|---------|------------|
| 2518-JYU | i3-370M | 2.40 | 2GB | 14.1" WXGA+ | LED | 2.0M | 320G 7200 | Intel 6200 ²⁸ | WWAN upg | None | Yes | No | Pro 64 | Jul 10 |

- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a depot repair service 3-year limited warranty**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i3 processor i3-370M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | | | |
| Widescreen display | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 220 nits, 16:10 aspect ratio, 300:1 contrast ratio | | | | | | | | | | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 256MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case color Case material | 14.1W" (WxDxH): 13.2" x 9.4" x 1.1–1.3"; 335.5 x 239mm x 27.6–31.9mm <i>6-cell:</i> starting at 5.0 lb (2.27kg); <i>9-cell:</i> starting at 5.35 lb (2.43kg) Black <i>Top:</i> High Elasticity PolyCarbonate (HEPC); <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | | | | | | | | | | | | | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 5.0 hr; <i>9-cell:</i> up to 8.3 hr; <i>9-cell plus Slice battery:</i> up to 16.6 hr | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), eSATA port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | | | |

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

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Memory

| | | |
|--|---------|--------------|
| 1GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3706 | ann 06/23/09 |
| 1GB PC3-8500 DDR3 L-H SODIMM (25-Pack) | 57Y4385 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3707 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 L-H SODIMM (25-Pack) | 57Y4386 | ann 06/23/09 |
| 4GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3708 | ann 06/23/09 |

Ultrabay Slim 9.5mm

| | | |
|---|---------|--------------|
| Serial ATA Hard Drive Bay Adapter III | 43N3412 | ann 06/23/09 |
| DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s | 43N3292 | ann 08/03/10 |
| DVD Burner Ultrabay Slim Drive II SATA 1.5G/s | 43N3229 | ann 06/23/09 |
| Ultrabay Slim Blu-ray Burner II (SATA) | 43N3230 | ann 06/23/09 |

Storage and removable storage

| | | |
|--|---------|--------------|
| 160GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 41N5737 | ann 10/16/07 |
| 250GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43R8152 | ann 01/15/08 |
| 250GB Disk FDE SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3410 | ann 01/20/09 |
| 320GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43N3403 | ann 08/05/08 |
| 320GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3411 | ann 01/20/09 |
| 500GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3423 | ann 01/07/10 |

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter III 43N3412 in the Ultrabay

| | | |
|--|---------|--------------|
| 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) | 43N3406 | ann 08/26/08 |
| 256GB FDE SSD SATA 3Gb/s 1.8"(2.5" cover) | 43N3417 | ann 06/23/09 |
| ThinkPad 160GB Intel X25-M SSD ⁴¹ | 43N3435 | ann 06/22/10 |

| | | |
|---|---------|--------------|
| USB 2.0 Portable 320GB Hard Disk | 45K1689 | ann 03/17/09 |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | ann 05/26/09 |
| USB 2.0 Portable Secure 160GB Hard Disk | 43R2018 | ann 11/18/08 |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | ann 11/18/08 |
| eSATA/USB 2.0 Secure 500GB Hard Drive | 57Y4400 | ann 01/07/10 |
| USB 2.0 Portable DVD Burner | 43N3264 | ann 01/05/10 |

Wireless WAN (Mini PCI Express)

Only WWAN upgradable models:

| | | |
|---|---------|--------------|
| ThinkPad Gobi™ 2000 Broadband Option | 78Y1399 | ann 01/07/10 |
| ThinkPad AT&T® Gobi 2000 Broadband Option | 78Y1398 | ann 01/07/10 |

ThinkPad Expansion

| | | |
|--|---------|--------------|
| Lenovo® Essential Notebook Stand | 45J9292 | ann 05/12/09 |
| USB Port Replicator with Digital Video | 45K1610 | ann 07/28/09 |
| ThinkPad Port Replicator Series 3 | 433610W | ann 06/23/09 |
| ThinkPad Mini Dock Series 3 | 433710U | ann 06/23/09 |
| ThinkPad Mini Dock Plus Series 3 | 433810U | ann 06/23/09 |
| ThinkPad Mini Dock Plus Series 3 - Mobile WS | 433820U | ann 01/07/10 |

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 |
| Ultralim Wireless Keyboard and Mouse ⁵² | 57Y4700 | ann 09/15/09 |
| ⁵² Wireless via 2.4GHz technology using a micro-size USB receiver. | | |
| ThinkPad USB Keyboard with TrackPoint | 55Y9003 | ann 08/18/09 |
| Lenovo® USB Fingerprint Keyboard | 73P4730 | ann 02/22/05 |
| Lenovo USB Smartcard Keyboard | 51J0155 | ann 03/24/09 |

Mouse

| | | |
|--|---------|--------------|
| Lenovo Optical Mouse (USB) | 06P4069 | ann 05/21/03 |
| Lenovo Laser Mouse (USB) | 41U3074 | ann 01/23/07 |
| ThinkPad USB Laser Mouse | 57Y4635 | ann 12/15/09 |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | ann 08/27/02 |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | ann 06/04/02 |
| ThinkPad Bluetooth Laser Mouse | 41U5008 | ann 01/22/08 |

Multimedia

| | | |
|----------------------------|---------|--------------|
| ThinkPad In-Ear Headphones | 57Y4488 | ann 01/07/10 |
|----------------------------|---------|--------------|

Security

| | | |
|--|---------|--------------|
| Kensington® MicroSave® Cable Lock | 73P2582 | ann 12/29/03 |
| Kensington Twin Head Cable Lock | 45K1620 | ann 09/30/08 |
| Lenovo Security Cable Lock | 57Y4303 | ann 08/24/10 |
| USB Gemplus GemPC Smart Card Reader | 41N3040 | ann 02/21/06 |
| ThinkPad T400/T410/R400 Privacy Filter | 43R2472 | ann 08/05/08 |
| Note: ThinkPad T400/T410/R400 Privacy Filter (43R2472) is not supported on T400s or T410s. | | |

Batteries

| | | |
|---|---------|--------------|
| ThinkPad Battery 55+ (6-cell) | 57Y4185 | ann 03/30/10 |
| ThinkPad Battery 55++ (9-cell) | 57Y4186 | ann 03/30/10 |
| ThinkPad Battery 27++ (9-cell, slice) ⁴³ | 57Y4545 | ann 01/07/10 |
| ⁴³ To be used along with system battery for all-day computing; attaches under ThinkPad using docking connector (not supported when using Series 3 Port Replicator or Docks). | | |
| ThinkPad External Battery Charger | 40Y7625 | ann 09/20/05 |

More information at www.lenovo.com/alldaycomputing

| | | |
|--|---------|--------------|
| ThinkPad 65W AC Adapter ⁴⁵ | 40Y7696 | ann 01/05/06 |
| ⁴⁵ Only compatible with the integrated graphics models. | | |
| ThinkPad 90W AC Adapter | 40Y7659 | ann 09/20/05 |
| Lenovo Power Hub | 57Y4600 | ann 09/07/10 |
| 90W Ultralim AC/DC Combo Adapter | 41R4493 | ann 09/22/09 |

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

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

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

More information at www.lenovopowertips.com

Carrying Cases

Up to 14" widescreen models:

| | | |
|--------------------------|---------|--------------|
| ThinkPad 14W Case Sleeve | 57Y4294 | ann 03/16/10 |
|--------------------------|---------|--------------|

Up to 15.4" widescreen models:

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

Up to 15.6" widescreen models:

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

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

Monitors

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

Monitor Accessories⁴⁶

| | | |
|---|---------|--------------|
| Lenovo USB-to-DVI Monitor Adapter | 45K5296 | ann 05/12/09 |
| 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 MicroSaver Cable Lock | 73P2582 | ann 12/29/03 |
| Kensington Twin Head Cable Lock | 45K1620 | ann 09/30/08 |
| Lenovo Security Cable Lock | 57Y4303 | ann 08/24/10 |
| Lenovo Easy Reach Monitor Stand | 55Y9258 | ann 09/22/09 |
| ⁴⁶ Compatible on selected Lenovo and ThinkVision monitors. | | |

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

For more information on ThinkPad accessories, please visit:

- www.lenovo.com/support/accessories
- www.lenovo.com/support/notebookaccessories
- www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories
 Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo® ThinkPad T410s



Lenovo ThinkPad T410s



ThinkPad Battery 42 (3-cell, bay)
57Y4536



ThinkPad Battery 59+ (6-cell)
51J0497



Lenovo ThinkPad T410s



Lenovo ThinkPad T410s

ThinkPad® T410s 2901 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory (GHz) | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Card slot | Intel vPro Preload | Avail date |
|------------|-----------|----------------------|--------------|---------------------|-------------|-------------------------------|-----------------------|---------------------|---------------------|------------|--------------|--------------------|------------|
| 2901-ATU | i5-560M | 2.66 | 3.20 | 2GB | 14.1" WXGA+ | 2.0M | 250G 5400 | 11b/g/n | WWAN upg | None | Blue Express | No Pro 64 | Sep 10 |

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

| | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i5 processor i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Presentation Director • ThinkVantage Productivity Center • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 250GB⁸ (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | |
| Widescreen display Camera | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | Supports ThinkVantage® technologies | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | |
| Dimensions ³ Weight ² Case material | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm <i>6-cell:</i> starting at 3.94 lb (1.79kg) <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 , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 4.8 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.9 hr | | | | | | | | | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel QS57 Express Chipset One slot (ExpressCard/34) None Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | 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 | |
| PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | |
| Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced September 28, 2010

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(SN2-11) October 2010

ThinkPad® T410s 2904 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁵ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Card slot | Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|-----------|------------|---------|------------|
| 2904-FZU | i5-520M | 2.40 | 2.93 | 4GB | 14.1" WXGA+ | 2.0M | 128G SSD | Intel 6200 ²⁸ | WWAN upg | Finger | Express | vPro | Pro 64 | Mar 10 |
| 2904-GGU | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA+ | 2.0M | 250G 5400 | Intel 6200 | WWAN upg | | Express | vPro | Pro 64 | May 10 |
| 2904-HCU | i5-560M | 2.66 | 3.20 | 4GB | 14.1" WXGA+ | 2.0M | 128G SSD | Intel 6200 | WWAN upg | | Express | vPro | Pro 64 | Sep 10 |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 128GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high <i>Some:</i> 250GB (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | |
| Widescreen display Camera | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case material | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm <i>6-cell:</i> starting at 3.94 lb (1.79kg) <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy | Supports ThinkVantage® technologies |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 4.8 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.9 hr | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel QS57 Express Chipset One slot (ExpressCard/34) None Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² 3-years/1-yr battery - depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information

US model announced September 28, 2010; previous models on March 2 or May 4, 2010

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ThinkPad® T410s 2904 (Switchable) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Card slot | Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|-----------|------------|---------|------------|
| 2904-G2U | i5-520M | 2.40 | 2.93 | 4GB | 14.1" WXGA+ | 2.0M | 128G SSD | Intel 6200 ²⁸ | WWAN upg | Finger | Blue | 3-in-1 | vPro | Pro 64 | Mar 10 |
| 2904-GEU | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA+ | 2.0M | 250G 5400 | Intel 6200 | WWAN upg | | Blue | 3-in-1 | vPro | Pro 64 | May 10 |
| 2904-GFU | i5-540M | 2.53 | 3.06 | 2GB | 14.1" WXGA+ | 2.0M | 128G SSD | Intel 6200 | WWAN upg | | Blue | 3-in-1 | vPro | Pro 64 | May 10 |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | | | |
|-------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | | | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 128GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high <i>Some:</i> 250GB (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | | | | | | | | | | | | | | |
| Widescreen display | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio | | | | | | | | | | | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | | |
| Switchable graphics | Dynamic switching between discrete and integrated graphics (user selectable), Intel HD Graphics in processor, and NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2048x1536 (VGA) @75Hz(integrated) or 85Hz(discrete); 1920x1200@60Hz (single-link DVI-D via cable 45J7915); 2560x1600 (DP) @60Hz | | | | | | | | | | | | | | |
| Keyboard | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | |
| TrackPoint® | TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass | | | | | | | | | | | | | | |
| Touchpad | UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch | | | | | | | | | | | | | | |
| ThinkLight™ | Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | | |
| Dimensions ³ | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm | | | | | | | | | | | | | | |
| Weight ² | 6-cell: starting at 3.94 lb (1.79kg) | | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy | | | | | | | | | | Supports ThinkVantage® technologies | | | | |
| Battery - type | Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim | | | | | | | | | | 90-watt AC adapter | | | | |
| Battery - life ¹⁰ | 6-cell: up to 4.8 hr; 6-cell plus Ultrabay battery: up to 7.9 hr | | | | | | | | | | ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | | |
| Chipset | Mobile Intel QS57 Express Chipset | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 45K6021 | | | | |
| ExpressCard/34 | None | | | | | | | | | | ThinkPlus 4-year LOR 9x5 NBD 45K6022 | | | | |
| Multicard Reader | 3-in-1 reader (MMC, SD, SDHC) | | | | | | | | | | ThinkPlus 5-year LOR 9x5 NBD 45K6024 | | | | |
| Ports | Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | ThinkPlus 4-year P&L P/U Depot 45K6023 | | | | |
| PCIe Mini Card | Two PCI Express Mini Card slots | | | | | | | | | | ThinkPlus 5-year P&L P/U Depot 45K6025 | | | | |
| Intel 6200 ²⁸ | 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | | |
| WWAN upg | Wireless WAN upgradable | | | | | | | | | | | | | | |
| Modem | None | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | | | | | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | |
| Fingerprint reader | <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | | | | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

See footnotes for important warranty information

US models announced May 4, 2010; previous model on March 30, 2010

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ThinkPad® T410s 2904 (Optimus) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base (GHz) | turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Card slot | Intel vPro | Preload | Avail date |
|------------|-----------|----------------|-------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|-----------|------------|---------|------------|
| 2904-HDU | i5-560M | 2.66 | 3.20 | 4GB | 14.1" WXGA+ | 2.0M | 128G SSD | Intel 6200 ²⁸ | WWAN upg | Finger | Blue | 3-in-1 | vPro | Pro 64 | Sep 10 |

- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a depot repair service 3-year limited warranty**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | | | | | | | | | | | | | | |
|-------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i5 processor i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | | | |
| 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 | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 128GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | | | | | | | | | | | | | | |
| Widescreen display | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio | | | | | | | | | | | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | | |
| Optimus graphics ³⁷ | NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics in processor, and NVIDIA Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2048x1536 (VGA) @ 75Hz; 1920x1200 @ 60Hz (single-link DVI-D via cable 45J7915); 2560x1600 (DP) @ 60Hz | | | | | | | | | | | | | | |
| Keyboard | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | |
| TrackPoint® | TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass | | | | | | | | | | | | | | |
| Touchpad | UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch | | | | | | | | | | | | | | |
| ThinkLight™ | Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | | |
| Dimensions ³ | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm | | | | | | | | | | | | | | |
| Weight ² | 6-cell: starting at 3.94 lb (1.79kg) | | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy | | | | | | | | | | Supports ThinkVantage® technologies | | | | |
| Battery - type | Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim | | | | | | | | | | 90-watt AC adapter | | | | |
| Battery - life ¹⁰ | 6-cell: up to 4.7 hr; 6-cell plus Ultrabay battery: up to 7.8 hr | | | | | | | | | | ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | | |
| Chipset | Mobile Intel QS57 Express Chipset | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 45K6021 | | | | |
| ExpressCard/34 | None | | | | | | | | | | ThinkPlus 4-year LOR 9x5 NBD 45K6022 | | | | |
| Multicard Reader | 3-in-1 reader (MMC, SD, SDHC) | | | | | | | | | | ThinkPlus 5-year LOR 9x5 NBD 45K6024 | | | | |
| Ports | Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | ThinkPlus 4-year P&L P/U Depot 45K6023 | | | | |
| PCIe Mini Card | Two PCI Express Mini Card slots | | | | | | | | | | ThinkPlus 5-year P&L P/U Depot 45K6025 | | | | |
| Intel 6200 ²⁸ | 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 | | | | | | | | | | Post-warranty annual maintenance agreements at | | | | |
| WWAN upg | Wireless WAN upgradable | | | | | | | | | | lenovo.com/thinkplus/warranty | | | | |
| Modem | None | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | | | | | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | |
| Fingerprint reader | UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | | | | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced September 28, 2010

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(SN2-12) December 2010

ThinkPad® T410s 2912 (Windows 7)

| Type-model | Proc- essor | Max Base turbo (GHz) (GHz) | Memory (MHz) | Wide- screen display | Multi- Touch Screen | Cam- era | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue- tooth | Card slot | Intel vPro | Workhorse (W) Gbl (G) Avail date |
|------------|----------------|----------------------------------|--------------|----------------------------|---------------------------|-------------|-------------------------------------|-----------------------------|---------------------------|---------------------------|----------------|--------------|---------------|--|
| 2912-A0U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA+ | | 120G 5400 | 11b/g/n | upg | | Exp | | Pro 32 | Feb 10 |
| 2912-21U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA+ | 2.0M | 128G SSD | WiMAX | Gobi | Fing | Blue Exp | 5-in-1 | vPro Pro 32 | Feb 10 |
| 2912-22U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA+ | Multi 2.0M | 128G SSD | Intel 6200 ²⁸ | upg | Fing | Blue Exp | | vPro Pro 32 | G Feb 10 |
| 2912-23U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA+ | | 120G 5400 | 11b/g/n | upg | Fing | Blue Exp | | Pro 32 | G Feb 10 |
| 2912-25U | i5-520M | 2.40 | 2.93 | 2+1GB 1066 | 14.1" WXGA+ | | 128G SSD | Intel 6200 | upg | Fing | Blue Exp | | vPro Pro 32 | G Feb 10 |
| 2912-2DU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA+ | 2.0M | 128G SSD | Intel 6200 | Gobi | Fing | Blue Exp | | vPro Pro 32 | Feb 10 |
| 2912-3PU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA+ | 2.0M | 250G 5400 | Intel 6200 | upg | Fing | Blue Exp | | vPro Pro 32 | Mar 10 |
| 2912-3RU | i5-520M | 2.40 | 2.93 | 4GBx1 1333 | 14.1" WXGA+ | 2.0M | 250G 5400 | Intel 6200 | upg | Fing | Blue Exp | | vPro Pro 64 | G Mar 10 |
| 2912-3UU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA+ | | 250G 5400 | Intel 6200 | upg | | Blue Exp | | vPro Pro 64 | G May 10 |
| 2912-3VU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA+ | 2.0M | 80G SSD | Intel 6200 | upg | | Blue Exp | | vPro Pro 64 | G May 10 |
| 2912-42U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 14.1" WXGA+ | 2.0M | 160G SSD | Intel 6200 | upg | | Blue Exp | | vPro Pro 64 | Aug 10 |

• These models have a depot repair service 3-year limited warranty
 • These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|---|---|---|
| Positioning Processor | Premiere performance and ultraportability; two spindles Intel® Core™ i5 processor i5-520M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system ²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB, 3GB, or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Preloaded applications ¹⁴ (only some listed) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: 80GB⁸, 128GB, or 160GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high Some: 120GB (5400 rpm) or 250GB (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, Active Protection System™ All: removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | <ul style="list-style-type: none"> Rescue and Recovery™ Access Connections™ Password Manager Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager ThinkVantage Toolbox Norton™ Internet Security 2011 (30 days of virus definitions) Adobe® Reader® Adobe Flash® Player Windows Live™ Toolbar Skype™ for Windows Microsoft Office 2010 preloaded; purchase product key to activate Microsoft Research AutoCollage Touch Roxio® Creator® Business Edition (DVD±RW) Roxio MyDVD® (DVD±RW) Corel® WinDVD® (DVD±RW) |
| Widescreen display | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio, Some: MultiTouch (touchscreen supports two-finger touch) | |
| Camera | Some: camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm MultiTouch models: 13.3" x 9.5" x 0.95–1.14"; 337 x 241.5mm x 24.2mm–29.0mm | |
| Weight ² | 6-cell: starting at 3.94 lb (1.79kg); 6-cell (MultiTouch): starting at 4.51lb (2.05kg) | |
| Case material | Display cover: Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); Base: Magnesium alloy | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim 6-cell: up to 4.8 hr; 6-cell plus Ultrabay battery: up to 7.9 hr | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel QS57 Express Chipset Some: One slot (ExpressCard/34) Some: 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | Supports ThinkVantage® technologies |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WiMAX WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots Some: 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Some: 11a/b/g/n and WiMAX wireless, PCIe Half Mini Card, Intel Centrino Advanced-N + WiMAX 6250, 2x2 AGN + 1x2 WiMAX Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Carrier Modem Bluetooth™ Ethernet | 21U/2DU models: Verizon®, contract required with service provider None Some: Bluetooth 2.1 wireless, LED indicator Non-vPro model: Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 vPro model: Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 45K6021 |
| Intel AMT Audio support | Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus 4-year LOR 9x5 NBD 45K6022 |
| Security | Hardware Password Manager (HPM), Intel AntiTheft (AT), Power-on password, hard disk password, supervisor password, security keyhole | ThinkPlus 5-year LOR 9x5 NBD 45K6024 |
| Security chip Fingerprint reader | Trusted Platform Module, TCG 1.2-compliant Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, 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 - depot repair service / service upgrades²² available | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |

See footnotes for important warranty information

US model announced August 3, 2010; previous models on January 7, March 2, March 30, or May 4, 2010

US models withdrawn effective August 2010

ThinkPad® T410s 2912 (Switchable) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Multi-Touch Screen | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Intel vPro | Workhorse (W) Gbl (G) | Avail date |
|------------|-----------|------------|-----------------|--------------|---------------------|--------------------|-------------------------------|--------------------------|---------------------|--------------------|---------------------|------------|-----------------------|------------|
| 2912-24U | i5-520M | 2.40 | 2.93 | 2+1GB | 1066 | 14.1" WXGA+ | 250G 5400 | Intel 6200 ²⁸ | upg | | | vPro | Pro 32 | Mar 10 |
| 2912-2CU | i5-540M | 2.53 | 3.06 | 2+1GB | 1066 | 14.1" WXGA+ | 80G SSD | Intel 6200 | Gobi | AT&T ²³ | Finger | vPro | Pro 32 | Mar 10 |
| 2912-30U | i5-540M | 2.53 | 3.06 | 2+1GB | 1066 | 14.1" WXGA+ | 128G SSD | Intel 6300 ²⁸ | Gobi | AT&T | Finger | vPro | Pro 32 | Mar 10 |
| 2912-40U | i5-540M | 2.53 | 3.06 | 4GBx1 | 1333 | 14.1" WXGA+ | Multi 250G 5400 | WiMAX | upg | | Finger | vPro | Pro 32 | Mar 10 |
| 2912-3WU | i5-540M | 2.53 | 3.06 | 2GBx1 | 1066 | 14.1" WXGA+ | 250G 5400 | Intel 6200 | upg | | | vPro | Pro 64 | May 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|---|--|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB, 3GB, or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some: 80GB⁸ or 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high</i> <i>Some: 250GB (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, Active Protection System™</i> <i>All: removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive</i> | |
| Widescreen display | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio, <i>Some: MultiTouch (touchscreen supports two-finger touch)</i> Camera on top of screen, 2.0-megapixel, fixed focus | |
| Camera | Dynamic switching between discrete and integrated graphics (user selectable), Intel HD Graphics in processor, and NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2048x1536 (VGA) @75Hz(integrated) or 85Hz(discrete); 1920x1200@60Hz (single-link DVI-D via cable 45J7915); 2560x1600 (DP) @60Hz</i> | |
| Switchable graphics | Dynamic switching between discrete and integrated graphics (user selectable), Intel HD Graphics in processor, and NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2048x1536 (VGA) @75Hz(integrated) or 85Hz(discrete); 1920x1200@60Hz (single-link DVI-D via cable 45J7915); 2560x1600 (DP) @60Hz</i> | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm <i>MultiTouch models:</i> 13.3" x 9.5" x 0.95–1.14"; 337 x 241.5mm x 24.2mm–29.0mm | |
| Weight ² | <i>6-cell:</i> starting at 3.94 lb (1.79kg); <i>6-cell (MultiTouch):</i> starting at 4.51lb (2.05kg) | |
| 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 Ion 6-cell , supports unique 2nd battery in Ultrabay Slim | |
| Battery - life ¹⁰ | <i>6-cell:</i> up to 4.8 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.9 hr | |
| Chipset | Mobile Intel QS57 Express Chipset | |
| ExpressCard/34 | None | |
| Multicard Reader | 3-in-1 reader (MMC, SD, SDHC) | |
| Ports | Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | Supports ThinkVantage® technologies |
| PCIe Mini Card | Two PCI Express Mini Card slots | |
| Intel 6200 ²⁸ WiMAX | <i>Some:</i> 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> 11a/b/g/n and WiMAX wireless, PCIe Half Mini Card, Intel Centrino Advanced-N + WiMAX 6250, 2x2 AGN + 1x2 WiMAX | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Intel 6300 ²⁸ WWAN upg Gobi™ 2000 | <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | |
| Carrier | <i>Some:</i> AT&T®, contract required with service provider | |
| Modem | None | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 45K6021 |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | ThinkPlus 4-year LOR 9x5 NBD 45K6022 |
| Intel AMT | Intel Active Management Technology (iAMT) | ThinkPlus 5-year LOR 9x5 NBD 45K6024 |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus 4-year P&L P/U Depot 45K6023 |
| Security | Hardware Password Manager (HPM), Intel AntiTheft (AT), Power-on password, hard disk password, supervisor password, security keyhole | ThinkPlus 5-year P&L P/U Depot 45K6025 |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Fingerprint reader | <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² 3-years/1-yr battery - depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information

US models announced March 30 or May 4, 2010; previous models on March 30, 2010

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ThinkPad® T410s 2912 (Optimus) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------------|---------------------|-------------------------------|--------------------------|---------------------|---------------------|------------|------------|---------|------------|
| 2912-47U | i5-560M | 2.66 | 3.20 | 2GBx1 1066 | 14.1" WXGA+ | 128G SSD | Intel 6200 ²⁸ | WWAN upg | Finger | Blue | vPro | Pro 64 | Sep 10 |

- This model has a depot repair service 3-year limited warranty
- This system is Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i5 processor i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | | | |
| Memory | 2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 128GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | | | | | | | | | | | | |
| Widescreen display | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio | | | | | | | | | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | |
| Optimus graphics ³⁷ | NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics in processor, and NVIDIA Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2048x1536 (VGA) @ 75Hz; 1920x1200 @ 60Hz (single-link DVI-D via cable 45J7915); 2560x1600 (DP) @ 60Hz</i> | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case material | <i>14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm</i> <i>6-cell: starting at 3.94 lb (1.79kg)</i> <i>Display cover: Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); Base: Magnesium alloy</i> | | | | | | | | | | | | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell: up to 4.7 hr; 6-cell plus Ultrabay battery: up to 7.8 hr</i> | | | | | | | | | | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel QS57 Express Chipset None 3-in-1 reader (MMC, SD, SDHC) Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | Supports ThinkVantage® technologies | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | Hardware Password Manager (HPM), Intel AntiTheft (AT), Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 - depot repair service / service upgrades ²² available | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced September 28, 2010

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(SN2-13) December 2010

ThinkPad® T410s 2924 (Onsite) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | Multi-Touch Screen | Camera | Disk SATA GB ⁵ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Card slot | Intel vPro | Preload | Workhorse (W) Gbl (G) GMP(P) | Avail date |
|------------|-----------|----------------------|--------|---------------------|--------------------|--------|-------------------------------|-----------------------|--------------------------|---------------------|-----------|------------|---------|------------------------------|------------|
| 2924-22U | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA+ | Multi | 2.0M | 128G SSD | Intel 6200 ²⁸ | WWAN upg | Finger | Exp vPro | Pro 32 | G P | Feb 10 |
| < 2924-23U | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA+ | | | 120G 5400 | 11b/g/n | WWAN upg | Finger | Exp | Pro 32 | G P | Feb 10 |
| 2924-25U | i5-520M | 2.40 | 2.93 | 3GB | 14.1" WXGA+ | | | 128G SSD | Intel 6200 | WWAN upg | Finger | Exp vPro | Pro 32 | G P | Feb 10 |
| 2924-3UU | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA+ | | | 250G 5400 | Intel 6200 | WWAN upg | | Exp vPro | Pro 64 | G P | May 10 |
| 2924-3VU | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA+ | 2.0M | 80G SSD | Intel 6200 | WWAN upg | | Exp vPro | Pro 64 | G P | May 10 | |

- These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|---|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i5 processor i5-520M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 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 | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 80GB or 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high <i>Some:</i> 120GB (5400 rpm) or 250GB (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | |
| Widescreen display | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio, <i>Some:</i> MultiTouch (touchscreen supports two-finger touch) <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Camera | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm <i>MultiTouch models:</i> 13.3" x 9.5" x 0.95–1.14"; 337 x 241.5mm x 24.2mm–29.0mm <i>6-cell:</i> starting at 3.94 lb (1.79kg); <i>6-cell (MultiTouch):</i> starting at 4.51lb (2.05kg) | |
| Weight ² Case material | <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 4.8 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.9 hr | |
| Battery - type Battery - life ¹⁰ | Mobile Intel QS57 Express Chipset One slot (ExpressCard/34) None Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | |
| Chipset ExpressCard/34 Multicard Reader Ports | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet | Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | ThinkPlus™.22 4-year LOR ²⁴ 9x5 NBD 45K6038 |
| Intel AMT Audio support | Power On Authentication, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Security Security chip Fingerprint reader | 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

28 US models announced May 4, 2010; previous models on January 7, 2010

< US model withdrawn effective August 2010

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ThinkPad® T410s 2924 (Switchable) - Onsite (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Card slot | Intel vPro | Workhorse (W) Gbl (G) Avail date |
|------------|-----------|----------------------|--------|---------------------|-------------|-------------------------------|-----------------------|--------------------------|---------------------|------------|-------------|------------|----------------------------------|
| 2924-24U | i5-520M | 2.40 | 2.93 | 3GB | 14.1" WXGA+ | 2.0M | 250G 5400 | Intel 6200 ²⁸ | WWAN upg | None | Blue 3-in-1 | vPro | Pro 32 G P Mar 10 |
| 2924-3WU | i5-540M | 2.53 | 3.06 | 2GB | 14.1" WXGA+ | 2.0M | 250G 5400 | Intel 6200 | WWAN upg | None | Blue 3-in-1 | vPro | Pro 64 G P May 10 |

- These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|---|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 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 | | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access 250GB⁸ (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | |
| Widescreen display Camera | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | |
| Switchable graphics | Dynamic switching between discrete and integrated graphics (user selectable), Intel HD Graphics in processor, and NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2048x1536 (VGA) @75Hz(integrated) or 85Hz(discrete); 1920x1200@60Hz (single-link DVI-D via cable 45J7915); 2560x1600 (DP) @60Hz | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | |
| Dimensions ³ Weight ² Case material | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm <i>6-cell:</i> starting at 3.94 lb (1.79kg) <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 4.8 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.9 hr | | | | | | | | | | | |
| Battery - type Battery - life ¹⁰ | | | | | | | | | | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel QS57 Express Chipset None 3-in-1 reader (MMC, SD, SDHC) Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | | Supports ThinkVantage® technologies |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable None Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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, TCG 1.2-compliant None | | | | | | | | | | | ThinkPlus™. ²² 4-year LOR ²⁴ 9x5 NBD 45K6038 |
| 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 May 4, 2010; previous model on March 30, 2010

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| Type-model | Processor | Max Base turbo (GHz) | Processor (GHz) | Memory | Wide-screen display | Multi-Touch Screen | Cam-era | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Card slot | Intel vPro | Preload | Avail date |
|------------|-----------|----------------------|-----------------|------------|---------------------|--------------------|---------|-------------------------------|--------------------------|---------------------|---------------------|------------|-----------|------------|---------|------------|
| 2912-52U | i5-520M | 2.40 | 2.93 | 2GB | 14.1" WXGA+ | | 2.0M | 250G 5400 | Intel 6200 ²⁸ | WWAN upg | Finger | None | Exp vPro | Pro 32 | Feb 10 | |
| 2912-53U | i5-520M | 2.40 | 2.93 | 3GB | 14.1" WXGA+ | <i>Multi</i> | 2.0M | 128G SSD | Intel 6200 | WWAN upg | Finger | None | Exp vPro | Pro 32 | Feb 10 | |

- **These models have a depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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.**

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|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i5 processor i5-520M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 | | | | | |
| Memory | 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 | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Education software - Microsoft® Office Ultimate 2007 Academic Edition (and CD) - Microsoft® Office OneNote® 2007 (and CD) - Adobe Digital School Collection - Instructor Resources (and DVD) - Learning Creative Suite 4 (DVD) - Photoshop Elements 7 (DVD) - Premiere Elements 7 (and DVD) - Acrobat 9 Professional (DVD) - Contribute CS4 (and DVD) - Soundbooth CS4 (and DVD) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software • ThinkVantage Power Manager • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 128GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high <i>Some:</i> 250GB (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | | | | | | | | | | | | | | | |
| Widescreen display | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio, <i>Some:</i> MultiTouch (touchscreen supports two-finger touch) | | | | | | | | | | | | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm <i>MultiTouch models:</i> 13.3" x 9.5" x 0.95–1.14"; 337 x 241.5mm x 24.2mm–29.0mm <i>6-cell:</i> starting at 3.94 lb (1.79kg); <i>6-cell (MultiTouch):</i> starting at 4.51lb (2.05kg) | | | | | | | | | | | | | | | |
| Weight ² Case material | <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy | | | | | | | | | | Supports ThinkVantage® technologies | | | | | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 4.8 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.9 hr | | | | | | | | | | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel QS57 Express Chipset One slot (ExpressCard/34) None Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | | | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable | | | | | | | | | | | | | | | |
| Modem Bluetooth™ Ethernet Intel AMT Audio support | None None Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | | | |
| Limited warranty ¹² 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | | | |

See footnotes for important warranty information
US models announced January 7, 2010

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| Type-model | Processor | GHz | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Card slot | Intel vPro | Preload | Avail date |
|------------|-----------|------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|-----------|------------|---------|------------|
| 2901-ARU | i3-370M | 2.40 | 2GB | 14.1" WXGA+ | 2.0M | 250G 5400 | 11b/g/n | WWAN upg | Finger | Blue | Express | No | Pro 64 | Aug 10 |
| 2901-ASU | i3-370M | 2.40 | 2GB | 14.1" WXGA+ | 2.0M | 128G SSD | Intel 6200 ²⁸ | WWAN upg | Finger | Blue | Express | No | Pro 64 | Aug 10 |

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

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|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i3 processor i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Client Security Solution™ • Fingerprint Software • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Presentation Director • ThinkVantage Productivity Center • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 128GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high <i>Some:</i> 250GB (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Widescreen display Camera | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case material | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm <i>6-cell:</i> starting at 3.94 lb (1.79kg) <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy | | | | | | | | | | 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 | | | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 4.8 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.9 hr | | | | | | | | | | | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel QS57 Express Chipset One slot (ExpressCard/34) None Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | 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 | | | |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable | | | | | | | | | | | | | |
| Modem Bluetooth™ Ethernet Intel AMT Audio support | None Bluetooth 2.1 wireless, LED indicator Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 None High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | ThinkPlus 5-year P&L P/U Depot 45K5974 ThinkPlus 5-year P&L P/U Depot 45K5976 | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | | | |
| Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

See footnotes for important warranty information
US models announced August 3, 2010

ThinkPad® T410si 2904 (TopSeller) - Windows 7 (August 2010)

Personal Systems Reference (PSREF)

| Type-model | Processor | GHz | Memory | Wide-screen display | Camera | Disk SATA GB ⁵ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Card slot | Intel vPro | Preload | Avail date |
|------------|-----------|------|--------|---------------------|--------|-------------------------------|-----------------------|---------------------|---------------------|------------|-----------|------------|---------|------------|
| 2904-H6U | i3-370M | 2.40 | 2GB | 14.1" WXGA+ | 2.0M | 250G 5400 | 11b/g/n | WWAN upg | Finger | Blue | Express | No | Pro 64 | Aug 10 |
| 2904-H7U | i3-370M | 2.40 | 2GB | 14.1" WXGA+ | 2.0M | 160G SSD | Intel 1000 | WWAN upg | Finger | Blue | Express | No | Pro 64 | Aug 10 |

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Positioning Processor | <i>Premiere performance and ultraportability; two spindles</i> Intel® Core™ i3 processor i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch | | | |
| SATA DVD±RW Ultra Slim SATA disk | DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim, removable One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> 160GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 5mm high <i>Some:</i> 250GB (5400 rpm) / SATA 3.0Gb/s, 1.8" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | | | | | | | | | | • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | |
| Widescreen display Camera | 14.1" (358mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 300:1 contrast ratio, Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | | |
| Dimensions ³ Weight ² Case material | 14.1W" (WxDxH): 13.3" x 9.5" x 0.83–1.02"; 337 x 241.5mm x 21.1–25.9mm <i>6-cell:</i> starting at 3.94 lb (1.79kg) <i>Display cover:</i> Carbon-fiber reinforced plastic (top), glass-fiber reinforced plastic (side walls); <i>Base:</i> Magnesium alloy Lithium Ion 6-cell , supports unique 2nd battery in Ultrabay Slim <i>6-cell:</i> up to 4.8 hr; <i>6-cell plus Ultrabay battery:</i> up to 7.9 hr | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | |
| Battery - type Battery - life ¹⁰ | Mobile Intel QS57 Express Chipset One slot (ExpressCard/34) None Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | Limited warranty ¹² 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | |
| Chipset ExpressCard/34 Multicard Reader Ports | Mobile Intel QS57 Express Chipset One slot (ExpressCard/34) None Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | | | | | | | | | | | | | |
| PCIe Mini Card 11b/g/n Intel 1000 WWAN upg | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 Wireless WAN upgradable | | | | | | | | | | | | | |
| Modem Bluetooth™ Ethernet Intel AMT Audio support | None Bluetooth 2.1 wireless, LED indicator Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 None High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | | | |

See footnotes for important warranty information
US models announced August 3, 2010

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Memory

| | | |
|--|---------|--------------|
| 1GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3706 | ann 06/23/09 |
| 1GB PC3-8500 DDR3 L-H SODIMM (25-Pack) | 57Y4385 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3707 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 L-H SODIMM (25-Pack) | 57Y4386 | ann 06/23/09 |
| 4GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3708 | ann 06/23/09 |

Ultrabay Slim 9.5mm

| | | |
|---|---------|--------------|
| Serial ATA Hard Drive Bay Adapter III | 43N3412 | ann 06/23/09 |
| DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s | 43N3292 | ann 08/03/10 |
| DVD Burner Ultrabay Slim Drive II SATA 1.5G/s | 43N3229 | ann 06/23/09 |
| Ultrabay Slim Blu-ray Burner II (SATA) | 43N3230 | ann 06/23/09 |

Storage and removable storage

| | | |
|--|---------|--------------|
| 1.8" 250GB Disk SATA 3.0Gb/s (5400 rpm) | 43N3418 | ann 06/23/09 |
| 500GB Disk SATA 3.0Gb/s (7200 rpm) ⁵¹ | 43N3423 | ann 01/07/10 |

⁵¹ Can be used with *Serial ATA Hard Drive Bay Adapter III* 43N3412 in the Ultrabay

| | | |
|---|---------|--------------|
| 128GB SSD SATA 3.0Gb/s 1.8"(2.5" cover) ⁴⁹ | 43N3406 | ann 08/26/08 |
| 256GB FDE SSD SATA 3Gb/s 1.8"(2.5" cover) ⁴⁹ | 43N3417 | ann 06/23/09 |

⁴⁹ Can be used as the main HDD or with *Serial ATA Hard Drive Bay Adapter III* 43N3412 in Ultrabay via the removable adaptive cover provided with the drive

| | | |
|---|---------|--------------|
| USB 2.0 Portable 320GB Hard Disk | 45K1689 | ann 03/17/09 |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | ann 05/26/09 |
| USB 2.0 Portable Secure 160GB Hard Disk | 43R2018 | ann 11/18/08 |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | ann 11/18/08 |
| eSATA/USB 2.0 Secure 500GB Hard Drive | 57Y4400 | ann 01/07/10 |
| USB 2.0 Portable DVD Burner | 43N3264 | ann 01/05/10 |

Wireless WAN (Mini PCI Express)

| | | |
|---|---------|--------------|
| ThinkPad Gobi™ 2000 Broadband Option | 78Y1399 | ann 01/07/10 |
| ThinkPad AT&T® Gobi 2000 Broadband Option | 78Y1398 | ann 01/07/10 |

ThinkPad Expansion

| | | |
|--|---------|--------------|
| Lenovo® Essential Notebook Stand | 45J9292 | ann 05/12/09 |
| USB Port Replicator with Digital Video | 45K1610 | ann 07/28/09 |
| ThinkPad Port Replicator Series 3 | 433610W | ann 06/23/09 |
| ThinkPad Mini Dock Series 3 | 433710U | ann 06/23/09 |
| ThinkPad Mini Dock Plus Series 3 | 433810U | ann 06/23/09 |
| ThinkPad Mini Dock Plus Series 3 - Mobile WS | 433820U | ann 01/07/10 |

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 |
| Ultrabay Wireless Keyboard and Mouse ⁵² | 57Y4700 | ann 09/15/09 |

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

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

Mouse

| | | |
|--|---------|--------------|
| Lenovo Optical Mouse (USB) | 06P4069 | ann 05/21/03 |
| Lenovo Laser Mouse (USB) | 41U3074 | ann 01/23/07 |
| ThinkPad USB Laser Mouse | 57Y4635 | ann 12/15/09 |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | ann 08/27/02 |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | ann 06/04/02 |
| ThinkPad Bluetooth Laser Mouse | 41U5008 | ann 01/22/08 |

Multimedia

| | | |
|----------------------------|---------|--------------|
| ThinkPad In-Ear Headphones | 57Y4488 | ann 01/07/10 |
|----------------------------|---------|--------------|

Modem

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

Security

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

Batteries

| | | |
|---|---------|--------------|
| ThinkPad Battery 59+ (6-cell) | 51J0497 | ann 06/23/09 |
| ThinkPad Battery 42 (3-cell, bay) ⁴³ | 57Y4536 | ann 08/25/09 |

⁴³ Used in Ultrabay Slim bay.

| | | |
|-----------------------------------|---------|--------------|
| ThinkPad External Battery Charger | 40Y7625 | ann 09/20/05 |
|-----------------------------------|---------|--------------|

More information at www.lenovo.com/alldaycomputing

| | | |
|---------------------------------------|---------|--------------|
| ThinkPad 65W AC Adapter ⁴⁵ | 40Y7696 | ann 01/05/06 |
|---------------------------------------|---------|--------------|

⁴⁵ Only compatible with the integrated graphics models.

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

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

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

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

More information at www.lenovopowertips.com

Carrying Cases

Up to 14" widescreen models:

| | | |
|--------------------------|---------|--------------|
| ThinkPad 14W Case Sleeve | 57Y4294 | ann 03/16/10 |
|--------------------------|---------|--------------|

Up to 15.4" widescreen models:

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

Up to 15.6" widescreen models:

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

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

Monitors

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

Monitor Accessories⁴⁶

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

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on ThinkPad accessories, please visit:

- www.lenovo.com/support/accessories
- www.lenovo.com/support/notebookaccessories
- www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories
 Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo® ThinkPad T510



Lenovo ThinkPad T510



ThinkPad Mini Dock Plus Series 3
433810U



ThinkPad Battery 27++ (9-cell, slice)
57Y4545



Lenovo ThinkPad T510



Lenovo ThinkPad T510

ThinkPad® T510 4313 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | SATA optical | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Bat-tery Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------|-----------------------|---------------------|---------------------|------------|---------------------|---------|------------|
| 4313-28U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 250G 5400 | DVD±RW | 11b/g/n | None | None | None | 6 No | Pro 32 | Jan 10 |
| 4313-CTU | i5-560M | 2.66 | 3.20 | 2GB | 15.6" HD | 2.0M | 320G 7200 | DVD±RW | 11b/g/n | None | None | None | 6 No | Pro 64 | Sep 10 |

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

| | | |
|--|---|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 250GB⁸ (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ | Supports ThinkVantage® technologies |
| Widescreen display Camera | 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | <i>15.6W" (WxDxH):</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.2 hr; <i>9-cell:</i> up to 10.4 hr; <i>9-cell plus Slice battery:</i> up to 20.8 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | 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 |
| PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card None 56K V.92 ⁶ modem None Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information

US model announced September 28, 2010; previous model on January 7, 2010

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(KN1-1) October 2010

ThinkPad® T510 4314 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁵ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Battery Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|--------------------|---------|------------|
| 4314-36U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 320G 7200 | WiMAX | WWAN upg | Finger | Blue | 6 vPro | Pro 32 | Jan 10 |
| 4314-2JU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 250G 5400 | 11b/g/n | WWAN upg | | Blue | 6 | Pro 32 | Jan 10 |
| 4314-9BU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 ²⁸ | WWAN upg | | Blue | 9 vPro | Pro 64 | May 10 |
| 4314-C5U | i5-540M | 2.53 | 3.06 | 2GB | 15.6" HD | 2.0M | 160G SSD | Intel 6200 | WWAN upg | Finger | Blue | 9 vPro | Pro 64 | Jul 10 |
| 4314-DDU | i5-560M | 2.66 | 3.20 | 2GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | | Blue | 6 vPro | Pro 64 | Sep 10 |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M, i5-540M, or i5-560M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access <i>Some:</i> 160GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 160GB (7200 rpm), 250GB (5400 rpm), or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | |
| Widescreen display | 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | 15.6W" (WxDxH): 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 6.2 hr; <i>9-cell:</i> up to 10.4 hr; <i>9-cell plus Slice battery:</i> up to 20.8 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | Supports ThinkVantage® technologies |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WiMAX | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> 11a/b/g/n and WiMAX wireless, PCIe Half Mini Card, Intel Centrino Advanced-N + WiMAX 6250, 2x2 AGN + 1x2 WiMAX | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 Modem Bluetooth™ Ethernet | Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Intel AMT Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty ¹² 3-years/1-yr - battery depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information

US model announced September 28, 2010; previous models on January 7, May 4, or July 6, 2010

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ThinkPad® T510 4314 (Optimus) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Bat- tery Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|----------------------|-------------|------------|
| 4314-DEU | i5-560M | 2.66 | 3.20 | 2GB | 15.6" HD+ | 2.0M | 320G 7200 | Intel 6200 ²⁸ | WWAN upg | None | Blue 9 | vPro Pro 64 | Sep 10 |

- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a depot repair service 3-year limited warranty**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|---|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-560M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | | |
| Widescreen display Camera | 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | |
| Optimus graphics ³⁷ | NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics in processor, and NVIDIA Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | 15.6W" (WxDxH): 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.1 hr; <i>9-cell:</i> up to 10.3 hr; <i>9-cell plus Slice battery:</i> up to 20.7 hr | | | | | | | | | | Supports ThinkVantage® technologies | | |
| Chipset ExpressCard/34 Smart Card reader Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | |
| Limited warranty ¹² | 3-years/1-yr - battery depot repair service / service upgrades ²² available | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced September 28, 2010

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(KN1-14) December 2010

ThinkPad® T510 4313 (Discrete) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | SATA optical | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Bat-tery Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------|-----------------------|---------------------|---------------------|------------|---------------------|-----------|------------|
| 4313-29U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 320G 7200 | DVD±RW | 11b/g/n | None | None | Blue | 9 | No Pro 32 | Feb 10 |

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

| | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|---|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 | | |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | Supports ThinkVantage® technologies | | |
| Widescreen display Camera | 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | 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 | | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | <i>15.6W" (WxDxH):</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 4.7 hr; <i>9-cell:</i> up to 7.8 hr; <i>9-cell plus Slice battery:</i> up to 15.6 hr | | | | | | | | | | | | | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | | | | |
| PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card None 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | | | | | | | | | | | | | |
| Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced January 7, 2010

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ThinkPad® T510 4314 (Discrete) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Bat-tery Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|---------------------|-------------|------------|
| 4314-2MU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 250G 5400 | Intel 1000 | WWAN upg | | 9 | Pro 32 | Feb 10 |
| 4314-2PU | i5-540M | 2.53 | 3.06 | 4GB | 15.6" HD+ | 2.0M | 500G 7200 | Intel 6200 ²⁸ | WWAN upg | Finger | Blue 9 | vPro Pro 32 | Feb 10 |
| 4314-7QU | i5-520M | 2.40 | 2.93 | 4GB | 15.6" HD+ | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue 9 | vPro Pro 64 | Mar 10 |
| 4314-7RU | i5-540M | 2.53 | 3.06 | 4GB | 15.6" HD+ | 2.0M | 128G SSD | Intel 6200 | WWAN upg | Finger | Blue 9 | vPro Pro 64 | Mar 10 |
| 4314-9CU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Blue 9 | vPro Pro 64 | May 10 |
| 4314-9DU | i5-540M | 2.53 | 3.06 | 2GB | 15.6" HD+ | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Blue 9 | vPro Pro 64 | May 10 |
| 4314-C4U | i5-540M | 2.53 | 3.06 | 2GB | 15.6" HD | 2.0M | 160G SSD | Intel 6200 | WWAN upg | Finger | Blue 9 | vPro Pro 64 | Jul 10 |

• These small and medium business (SMB) models are part of the US TopSeller™ Program
• These models have a depot repair service 3-year limited warranty
• These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--------------------------------|--|---|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| 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 | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable | |
| Ultrabay Enhanced | One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access | |
| SATA disk | Some: 128GB ⁹ or 160GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high Some: 160GB (7200 rpm), 250GB (5400 rpm), 320GB (7200 rpm), or 500GB (7200 rpm) / All: SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys | |
| TrackPoint® | TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass | |
| Touchpad | UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch | |
| ThinkLight™ | Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ | <i>15.6W" (WxDxH):</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm | |
| Weight ² | <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) | |
| Case material | <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic | |
| Battery - type | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom | |
| Battery - life ¹⁰ | <i>6-cell:</i> up to 4.7 hr; <i>9-cell:</i> up to 7.8 hr; <i>9-cell plus Slice battery:</i> up to 15.6 hr | |
| Chipset | Mobile Intel QM57 Express Chipset | |
| ExpressCard/34 | One slot (ExpressCard/34) | |
| Smart Card read | None | |
| Multicard reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | |
| Ports | Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | |
| PCIe Mini Card | Two PCI Express Mini Card slots | |
| Intel 1000 | Some: 11b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 | |
| Intel 6200 ²⁸ | Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6200, 2x2 | |
| WWAN upg | Wireless WAN upgradable | |
| Modem | 56K V.92 ⁶ modem | |
| Bluetooth™ | Some: Bluetooth 2.1 wireless, LED indicator | |
| Ethernet | <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | |
| Intel AMT | Intel Active Management Technology (iAMT) | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Fingerprint reader | Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty ¹² | 3-years/1-yr - battery depot repair service / service upgrades ²² available | |

Supports ThinkVantage® technologies
90-watt AC adapter
ThinkPad Roll Cage (one-piece magnesium frame)
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378

ThinkPlus™.22 3-year LOR²⁴ 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 July 6, 2010; previous models on January 7, March 2, or May 4, 2010

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| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Intel vPro | Pre-load | Workhorse (W) Gbl (G) GMP (P) | Avail date |
|------------|-----------|------------|-----------------|--------------|---------------------|--------|-------------------------------|--------------------------|----------------------------|---------|---------------------|------------|------------|----------|-------------------------------|------------|
| 4349-3JU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 15.6" HD | 2.0M | 250G 5400 | Intel 6200 ²⁸ | Gobi AT&T ²³ | | Finger | Blue | vPro | Pro 32 | 32 | Jan 10 |
| 4349-3KU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 15.6" HD+ | 2.0M | 320G 7200 | Intel 6200 | Gobi Verizon ¹⁶ | | Finger | Blue | vPro | Pro 32 | 32 | Jan 10 |
| 4349-2LU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 15.6" HD | | 320G 5400 | 11b/g/n | upg | | | | | Pro 32 | | Jan 10 |
| 4349-2NU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 15.6" HD+ | 2.0M | 320G 7200 | Intel 6200 | Gobi AT&T | | Finger | Blue | vPro | Pro 32 | 32 | Feb 10 |
| 4349-2PU | i7-620M | 2.66 | 3.33 | 4GBx1 1333 | 15.6" HD+ | 2.0M | 500G 7200 | Intel 6200 | upg | | Finger | Blue | vPro | Pro 32 | 32 | Jan 10 |
| 4349-2MU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 15.6" HD | 2.0M | 500G 7200 | 11b/g/n | upg | | Finger | Blue | vPro | Pro 32 | W G | Jan 10 |
| 4349-3AU | i5-520M | 2.40 | 2.93 | 2+1GB 1066 | 15.6" HD | 2.0M | 320G 5400 | Intel 6200 | upg | | Finger | Blue | vPro | Pro 32 | W G | Jan 10 |
| 4349-4BU | i5-520M | 2.40 | 2.93 | 2+1GB 1066 | 15.6" HD | 2.0M | 80G SSD | Intel 6200 | upg | | Finger | Blue | vPro | Pro 32 | G | Feb 10 |
| 4349-4VU | i5-520M | 2.40 | 2.93 | 2GBx2 1066 | 15.6" HD | 2.0M | 320G 5400 | Intel 6200 | upg | | | | vPro | Pro 64 | G | Mar 10 |
| 4349-57U | i5-540M | 2.53 | 3.06 | 2GBx1 1066 | 15.6" HD+ | 2.0M | 320G 7200 | Intel 6200 | Gobi AT&T | | Finger | Blue | vPro | Pro 32 | 32 | Apr 10 |
| 4349-4XU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | upg | | | Blue | vPro | Pro 32 | G | Apr 10 |
| 4349-5CU | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 15.6" HD+ | 2.0M | 160G 7200 | Intel 6200 | upg | | | Blue | vPro | Pro 64 | G | May 10 |
| 4349-5EU | i5-540M | 2.53 | 3.06 | 2GBx1 1066 | 15.6" HD+ | 2.0M | 160G 7200 | Intel 6200 | upg | | | Blue | vPro | Pro 64 | G | May 10 |

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

| | | |
|--|---|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, or Intel Core i7 processor i7-620M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i5-520M/i5-540M: 3MB cache; i7-620M: 4MB cache</i> | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB, 3GB, or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access <i>Some: 80GB® Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high</i> <i>Some: 160GB (7200 rpm), 250GB (5400 rpm), 320GB (5400 or 7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™</i> <i>All: removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive</i> | |
| Widescreen display | <i>Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight,</i> 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight,</i> 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | |
| Camera | <i>Some: camera on top of screen, 2.0-megapixel, fixed focus</i> | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915)</i> | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | <i>15.6W" (WxDxH): 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm</i> <i>6-cell: starting at 5.66 lb (2.57kg); 9-cell: starting at 6.01 lb (2.72kg)</i> <i>Display cover: Glass-fiber reinforced plastic; Base: Carbon-fiber reinforced plastic</i> Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell: up to 6.2 hr; 9-cell: up to 10.4 hr; 9-cell plus Slice battery: up to 20.8 hr</i> | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | Supports ThinkVantage® technologies |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots <i>Some: 11b/g/n wireless⁴, ThinkPad 11b/g/n, PCIe Half Mini Card</i> <i>Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2</i> <i>Some: Wireless WAN upgradable</i> <i>Some: Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider</i> | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Carrier Modem Bluetooth™ Ethernet | <i>Some: AT&T® or Verizon®, contract required with service provider</i> 56K V.92 ²⁶ modem <i>Some: Bluetooth 2.1 wireless, LED indicator</i> <i>Non-vPro model: Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1</i> <i>vPro model: Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1</i> | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Intel AMT Audio support | Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus 5-year annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip</i> | |
| Limited warranty ¹² 3-years/1-yr - battery depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information

US models announced May 4, 2010; previous models on January 7, March 2, or April 6, 2010

ThinkPad® T510 4349 (Windows 7) - July 2010

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Intel vPro | Workhorse (W) Gbl (G) Avail |
|------------|-----------|------------|-----------------|--------------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|------------|-----------------------------|
| 4349-G3U | i5-540M | 2.53 | 3.06 | 2GBx2 1066 | 15.6" HD+ | 2.0M | 160G SSD | Intel 6200 ²⁸ | WWAN upg | Finger | Blue | vPro | Pro 64 No Jul 10 |

• This system is Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | |
| Memory | 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 160GB⁹ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high, removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | | | | | | | | | | | | |
| Widescreen display | 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | | | | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | <i>15.6W" (WxDxH):</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.2 hr; <i>9-cell:</i> up to 10.4 hr; <i>9-cell plus Slice battery:</i> up to 20.8 hr | | | | | | | | | | Supports ThinkVantage® technologies | | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | | |
| Limited warranty ¹² 3-years/1-yr - battery depot repair service / service upgrades ²² available | | | | | | | | | | | | | |

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

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| Type-model | Processor | Max Base turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ⁵ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Intel vPro | Preload | Avail date |
|------------|-----------|----------------------|--------------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|------------|---------|------------|
| 4349-GDU | i5-560M | 2.66 3.20 | 2GBx1 1066 | 15.6" HD+ | 2.0M | 320G 7200 | Intel 6200 ²⁸ | WWAN upg | None | Blue | vPro | Pro 64 | Sep 10 |

- This model has a depot repair service 3-year limited warranty
- This system is Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|---|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 | |
| Memory | 2GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | |
| Widescreen display | 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | | | | | Supports ThinkVantage® technologies | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | |
| Optimus graphics ³⁷ | NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics in processor, and NVIDIA Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915)</i> | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | |
| Keyboard | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass Touchpad UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch ThinkLight™ Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | |
| Dimensions ³ | <i>15.6W" (WxDxH): 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm</i> | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 45K6021 | |
| Weight ² | <i>6-cell: starting at 5.66 lb (2.57kg); 9-cell: starting at 6.01 lb (2.72kg)</i> | | | | | | | | | | | |
| Case material | <i>Display cover: Glass-fiber reinforced plastic; Base: Carbon-fiber reinforced plastic</i> | | | | | | | | | | ThinkPlus 4-year LOR 9x5 NBD 45K6022 | |
| Battery - type | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery | | | | | | | | | | | |
| Battery - life ¹⁰ | <i>6-cell: up to 6.1 hr; 9-cell: up to 10.3 hr; 9-cell plus Slice battery: up to 20.7 hr</i> | | | | | | | | | | ThinkPlus 5-year LOR 9x5 NBD 45K6024 | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | |
| ExpressCard/34 | One slot (ExpressCard/34) | | | | | | | | | | ThinkPlus 4-year P&L P/U Depot 45K6023 | |
| Smart Card read | None | | | | | | | | | | | |
| Multicard reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | | | | | | | | | | ThinkPlus 5-year P&L P/U Depot 45K6025 | |
| Ports | Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | |
| Modem | 56K V.92 ⁶ modem | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | |
| Fingerprint reader | None | | | | | | | | | | | |
| Limited warranty ¹² 3-years/1-yr - battery depot repair service / service upgrades ²² available | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced September 28, 2010

ThinkPad® T510 4349 (Discrete) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ³ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Bat- tery Intel vPro | Workhorse (W) Pre-load GMP (P) | Avail date |
|------------|-----------|----------------------|-----------------|--------------|---------------------|-----------|-------------------------------|--------------------------|---------------------|---------------------|----------------------|--------------------------------|------------|
| 4349-2QU | i5-520M | 2.40 | 2.93 | 2GBx1 | 1066 | 15.6" HD | 500G 7200 | 11b/g/n | WWAN upg | | 6 | Pro 32 | Feb 10 |
| 4349-3HU | i5-540M | 2.53 | 3.06 | 2+1GB | 1066 | 15.6" HD | 128G SSD | Intel 6200 ²⁸ | WWAN upg | Finger | Blue 6 vPro | Pro 32 | Feb 10 |
| 4349-2RU | i7-620M | 2.66 | 3.33 | 2GBx1 | 1066 | 15.6" HD+ | 2.0M 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue 9 vPro | Pro 32 W G | Feb 10 |
| 4349-3BU | i5-520M | 2.40 | 2.93 | 2+1GB | 1066 | 15.6" HD | 2.0M 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue 6 vPro | Pro 32 W G | Feb 10 |
| 4349-4WU | i5-540M | 2.53 | 3.06 | 2GBx2 | 1066 | 15.6" HD+ | 2.0M 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue 9 vPro | Pro 64 | G Mar 10 |
| 4349-5AU | i5-520M | 2.40 | 2.93 | 2GBx1 | 1066 | 15.6" HD | 2.0M 160G 7200 | Intel 6200 | WWAN upg | | Blue 9 vPro | Pro 32 | Apr 10 |
| 4349-5BU | i5-520M | 2.40 | 2.93 | 2GBx1 | 1066 | 15.6" HD+ | 2.0M 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue 6 vPro | Pro 32 | Apr 10 |
| 4349-5DU | i5-520M | 2.40 | 2.93 | 2GBx1 | 1066 | 15.6" HD | 2.0M 160G 7200 | Intel 6200 | WWAN upg | | Blue 6 vPro | Pro 64 | G May 10 |
| 4349-G2U | i5-540M | 2.53 | 3.06 | 2GBx2 | 1066 | 15.6" HD | 2.0M 160G SSD | Intel 6200 | WWAN upg | Finger | Blue 6 vPro | Pro 64 | Jul 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, or Intel Core i7 processor i7-620M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i5-520M/i5-540M: 3MB cache; i7-620M: 4MB cache</i> | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB, 3GB, or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access <i>Some: 128GB⁸ or 160GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high</i> <i>Some: 160GB (7200 rpm), 320GB (7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™</i> <i>All: removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive</i> | |
| Widescreen display | <i>Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio</i> <i>Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio</i> | |
| Camera | <i>Some: camera on top of screen, 2.0-megapixel, fixed focus</i> | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915)</i> | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | <i>15.6W" (WxDxH): 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm</i> <i>6-cell: starting at 5.66 lb (2.57kg); 9-cell: starting at 6.01 lb (2.72kg)</i> <i>Display cover: Glass-fiber reinforced plastic; Base: Carbon-fiber reinforced plastic</i> Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell: up to 4.7 hr; 9-cell: up to 7.8 hr; 9-cell plus Slice battery: up to 15.6 hr</i> | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | Supports ThinkVantage® technologies |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet | Two PCI Express Mini Card slots <i>Some: 11b/g/n wireless⁴, ThinkPad 11b/g/n, PCIe Half Mini Card</i> <i>Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2</i> Wireless WAN upgradable 56K V.92 ⁶ modem <i>Some: Bluetooth 2.1 wireless, LED indicator</i> | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Intel AMT Audio support | <i>Non-vPro model: Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1</i> <i>vPro model: Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1</i> Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip</i> | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² 3-years/1-yr - battery depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information

US model announced July 6, 2010; previous models on January 7, March 2, April 6, or May 4, 2010

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ThinkPad® T510 4384 (Onsite) - Windows 7

| Type-model | Processor | Max Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Intel vPro | Preload | Workhorse (W) Gbl (G) GMP (P) | Avail date |
|------------|-----------|----------------|-----------------|------------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|------------|---------|-------------------------------|------------|
| 4384-2MU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 500G 7200 | 11b/g/n | WWAN upg | Finger | Blue | | Pro 32 | W G P | Jan 10 |
| 4384-3AU | i5-520M | 2.40 | 2.93 | 3GB | 15.6" HD | 2.0M | 320G 5400 | Intel 6200 ²⁸ | WWAN upg | Finger | Blue | vPro | Pro 32 | W G P | Jan 10 |
| 4384-4BU | i5-520M | 2.40 | 2.93 | 3GB | 15.6" HD | 2.0M | 80G SSD | Intel 6200 | WWAN upg | Finger | Blue | vPro | Pro 32 | G P | Feb 10 |
| 4384-4XU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Blue | vPro | Pro 32 | G P | Apr 10 |
| 4384-5CU | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD+ | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Blue | vPro | Pro 64 | G P | May 10 |
| 4384-5EU | i5-540M | 2.53 | 3.06 | 2GB | 15.6" HD+ | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Blue | vPro | Pro 64 | G P | May 10 |
| 4384-H3U | i5-540M | 2.53 | 3.06 | 4GB | 15.6" HD | 2.0M | 160G SSD | Intel 6200 | WWAN upg | Finger | Blue | vPro | Pro 64 | | Jul 10 |

- Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB, 3GB, 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access <i>Some:</i> 80GB⁸ or 160GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 160GB (7200 rpm), 320GB (5400 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | <i>15.6W" (WxDxH):</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.2 hr; <i>9-cell:</i> up to 10.4 hr; <i>9-cell plus Slice battery:</i> up to 20.8 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 45K6038 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |

See footnotes for important warranty information

US model announced July 6, 2010; previous models on January 7, April 6, or May 4, 2010

ThinkPad® T510 4384 (Discrete) - Onsite (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Bat-tery Intel vPro | Preload | Workhorse (W) Gbl (G) GMP (P) | Avail date |
|------------|-----------|----------------------|-----------------|---------------------|--------|-------------------------------|--------------------------|---------------------|---------------------|------------|---------------------|---------|-------------------------------|------------|
| 4384-2RU | i7-620M | 2.66 | 3.33 2GB | 15.6" HD+ | 2.0M | 320G 7200 | Intel 6200 ²⁸ | WWAN upg | Finger | Blue | 9 vPro | Pro 32 | W G P | Feb 10 |
| 4384-3BU | i5-520M | 2.40 | 2.93 3GB | 15.6" HD | 2.0M | 320G 7200 | Intel 6200 | WWAN upg | Finger | Blue | 6 vPro | Pro 32 | W G P | Feb 10 |
| 4384-5DU | i5-520M | 2.40 | 2.93 2GB | 15.6" HD | 2.0M | 160G 7200 | Intel 6200 | WWAN upg | | Blue | 6 vPro | Pro 64 | G P | May 10 |
| 4384-H2U | i5-540M | 2.53 | 3.06 4GB | 15.6" HD+ | 2.0M | 160G SSD | Intel 6200 | WWAN upg | Finger | Blue | 6 vPro | Pro 64 | | Jul 10 |

- Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|---|---|---|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core , or Intel Core i7 processor i7-620M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i5-520M/i5-540M: 3MB cache; i7-620M: 4MB cache</i> | Preloaded operating system ²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB, 3GB, 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access <i>Some:</i> 160GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high <i>Some:</i> 160GB (7200 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ <i>All:</i> removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | <i>15.6W" (WxDxH):</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 4.7 hr; <i>9-cell:</i> up to 7.8 hr; <i>9-cell plus Slice battery:</i> up to 15.6 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | ThinkPlus™, 22 4-year LOR ²⁴ 9x5 NBD 45K6038 |
| 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 | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |

See footnotes for important warranty information

Ⓢ US model announced July 6, 2010; previous models on January 7 or May 4, 2010

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ThinkPad® T510 4349 (Education) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Finger print reader | Blue-tooth | Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------|--------|-------------------------------|--------------------------|---------------------|--------------------|---------------------|------------|------------|---------|------------|
| 4349-E2U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 250G 5400 | 11b/g/n | | | | Blue | | Pro 32 | Jan 10 |
| 4349-E3U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 320G 5400 | Intel 6200 ²⁸ | Gobi 2000 | AT&T ²³ | Finger | Blue | vPro | Pro 32 | Jan 10 |
| 4349-E4U | i5-540M | 2.53 | 3.06 | 3GB | 15.6" HD+ | 2.0M | 320G 7200 | Intel 6200 | Gobi 2000 | AT&T | Finger | Blue | vPro | Pro 32 | Jan 10 |

- **These models have a depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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™ i5 processor i5-520M or i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 |
| Memory | 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 | Preloaded applications¹⁴ (only some listed) • <i>E3U/E4U models:</i> Education software - Microsoft® Office Ultimate 2007 Academic Edition (and CD) • Education software - Microsoft® Office OneNote® 2007 (and CD) - Adobe Digital School Collection - Instructor Resources (and DVD) - Learning Creative Suite 4 (DVD) - Photoshop Elements 7 (DVD) - Premiere Elements 7 (and DVD) - Acrobat 9 Professional (DVD) - Contribute CS4 (and DVD) - Soundbooth CS4 (and DVD) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 250GB⁸ (5400 rpm) or 320GB (5400 or 7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | 15.6W" (WxDxH): 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.2 hr; <i>9-cell:</i> up to 10.4 hr; <i>9-cell plus Slice battery:</i> up to 20.8 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | Supports ThinkVantage® technologies |
| PCIe Mini Card 11b/g/n Intel 6200 ²⁸ Gobi™ 2000 | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Carrier Modem Bluetooth™ Ethernet | <i>Some:</i> AT&T®, contract required with service provider 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Intel AMT Audio support | Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty ¹² 3-years/1-yr - battery depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information
US models announced January 7, 2010

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(KN1-11) January 2010

ThinkPad® T510 4349 (Discrete) - Education (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base (GHz) | turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁶ | rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Blue-tooth | Finger-print reader | Bat-tery Intel vPro | Preload | Avail date | |
|------------|-----------|----------------|-------------|------------|---------------------|--------|---------------------------|------|--------------------------|---------------------|--------------------|------------|---------------------|---------------------|---------|------------|--------|
| 4349-E5U | i5-520M | 2.40 | 2.93 | 2GB | 15.6" HD | 2.0M | 250G | 5400 | Intel 6200 ²⁸ | Gobi 2000 | AT&T ²³ | Blue | Finger | 6 | vPro | Pro 32 | Feb 10 |
| 4349-E6U | i5-520M | 2.40 | 2.93 | 3GB | 15.6" HD+ | 2.0M | 320G | 7200 | Intel 6200 | Gobi 2000 | AT&T | Blue | Finger | 9 | vPro | Pro 32 | Feb 10 |

- **These models have a depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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™ i5 processor i5-520M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 | | | | |
| Memory | 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 | | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • <i>E6U model:</i> Education software - Microsoft® Office Ultimate 2007 Academic Edition (and CD) • Education software - Microsoft® Office OneNote® 2007 (and CD) - Adobe Digital School Collection - Instructor Resources (and DVD) - Learning Creative Suite 4 (DVD) - Photoshop Elements 7 (DVD) - Premiere Elements 7 (and DVD) - Acrobat 9 Professional (DVD) - Contribute CS4 (and DVD) - Soundbooth CS4 (and DVD) | | | | |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 250GB⁶ (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | | | | | | Supports ThinkVantage® technologies | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | | | |
| Discrete graphics | NVIDIA® Quadro® NVS3100M , PCI Express® x16, 512MB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | <i>15.6W" (WxDxH):</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 4.7 hr; <i>9-cell:</i> up to 7.8 hr; <i>9-cell plus Slice battery:</i> up to 15.6 hr | | | | | | | | | | | | | | | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | | 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | | |
| PCIe Mini Card Intel 6200 ²⁸ Gobi™ 2000 | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 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 | | | | |
| Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | AT&T®, contract required with service provider 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | | | | | |
| Limited warranty ¹² 3-years/1-yr - battery depot repair service / service upgrades ²² available | | | | | | | | | | | | | | | | |

See footnotes for important warranty information
US models announced January 7, 2010

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ThinkPad® T510i 4313 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | GHz | Memory | Wide-screen display | Camera | Disk SATA GB ⁸ rpm | SATA optical | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Blue-tooth | Bat-tery cells | Intel vPro | Preload | Avail date |
|------------|-----------|------|--------|---------------------|--------|-------------------------------|--------------|-----------------------|---------------------|---------------------|------------|----------------|------------|---------|------------|
| 4313-C2U | i3-370M | 2.40 | 2GB | 15.6" HD | 2.0M | 250G 5400 | DVD±RW | Intel 1000 | None | Finger | Blue | 6 | No | Pro 64 | Jul 10 |
| 4313-C3U | i3-370M | 2.40 | 2GB | 15.6" HD | 2.0M | 320G 7200 | DVD±RW | Intel 1000 | None | Finger | Blue | 6 | No | Pro 64 | Jul 10 |

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

| | | |
|---|--|---|
| Positioning Processor | <i>Premiere performance; two spindles</i> Intel® Core™ i3 processor i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 |
| 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 (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Microsoft Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 250GB⁸ (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ | |
| Widescreen display Camera | 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | Supports ThinkVantage® technologies |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰ | 15.6W" (WxDxH): 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell:</i> up to 6.2 hr; <i>9-cell:</i> up to 10.4 hr; <i>9-cell plus Slice battery:</i> up to 20.8 hr | |
| Chipset ExpressCard/34 Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four 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) | 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 |
| PCIe Mini Card Intel 1000 WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 None 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | |

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

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ThinkPad®



Lenovo® ThinkPad W510



Lenovo ThinkPad W510



ThinkPad Mini Dock Plus Series 3 - Mobile WorkStation
433820U



ThinkPad 135W AC Adapter
55Y9317



Lenovo ThinkPad W510



Lenovo ThinkPad W510

ThinkPad® W510 4319 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Multi-Touch Screen | Disk SATA GB ³ rpm | RAID | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Color calib | Intel vPro | Preload | Avail date |
|------------|-----------|----------------|-----------------|--------------|---------------------|--------------------|-------------------------------|------|--------------------------|---------------------|--------------------|-------------|------------|---------|------------|
| 4319-2NU | i7-720QM | 1.60 | 2.80 | 2GBx1 1066 | 15.6" HD+ | | 320G 7200 | None | Intel 6300 ²⁸ | WWAN upg | | | vPro | Pro 32 | Jan 10 |
| 4319-2PU | i7-720QM | 1.60 | 2.80 | 2GBx2 1066 | 15.6" FHD | | 320G 7200 | None | Intel 6300 | WWAN upg | | | vPro | Pro 64 | Jan 10 |
| ⊗ 4319-2QU | i7-720QM | 1.60 | 2.80 | 2GBx2 1066 | 15.6" FHD | | 320G 7200 | None | Intel 6300 | Gobi 2000 | | | vPro | Pro 64 | Jan 10 |
| 4319-2RU | i7-820QM | 1.73 | 3.06 | 2GBx2 1066 | 15.6" FHD | Multi | 320G 7200 | None | Intel 6300 | WWAN upg | | X-Rite | vPro | Pro 64 | Jan 10 |
| 4319-4BU | i7-720QM | 1.60 | 2.80 | 2GBx2 1066 | 15.6" FHD | | 320G 7200 | None | Intel 6300 | Gobi 2000 | AT&T ²³ | | vPro | Pro 64 | Feb 10 |
| 4319-4MU | i7-720QM | 1.60 | 2.80 | 2GBx2 1066 | 15.6" HD+ | | 320G 7200 | None | Intel 6300 | Gobi 2000 | AT&T | | vPro | Pro 64 | Mar 10 |
| ⊗ 4319-64U | i7-720QM | 1.60 | 2.80 | 2GBx1 1066 | 15.6" HD+ | | 320G 7200 | None | Intel 6300 | WWAN upg | | | vPro | Pro 64 | Sep 10 |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- Power-packed engineering with Open GL graphics and ISV certifications
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|---|---|--|
| Positioning Processor | Mobile workstation; two spindles Intel® Core™ i7 processor i7-720QM or i7-820QM with quad-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology; i7-720QM: 6MB cache; i7-820QM: 8MB cache | Preloaded operating system ²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB or 4GB std / 16GB max ⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 204-pin SO-DIMM sockets | Preloaded applications ¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite® (color calibration models) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 320GB ⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, Shock Mounted Hard Drive, Active Protection System™ | |
| Widescreen display | Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 242 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut, MultiTouch (touchscreen supports two-finger touch) | |
| Color calibration Camera | Some: huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | NVIDIA® Quadro® FX880M, PCI Express® x16, 1GB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions (WxDxH) ³ | HD+: 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm FHD: 14.68" x 9.65" x 1.29-1.44"; 372.8mm x 245.1mm x 32.8-36.6mm FHD MultiTouch: 14.68" x 9.65" x 1.35-1.57"; 372.8mm x 245.1mm x 34.3-39.8mm | |
| Weight ² | 6-cell: starting at 5.66 lb (2.57kg); 9-cell: starting at 6.01 lb (2.72kg) | |
| Case material | Display cover: Glass-fiber reinforced plastic; Base: Carbon-fiber reinforced plastic | |
| Battery - type | Lithium Ion 9-cell, supports optional Slice battery (57Y4545) as 2nd battery at bottom | |
| Battery - life ¹⁰ | 6-cell: up to 3.0 hr; 9-cell: up to 5.1 hr; 9-cell plus slice battery: up to 10.5 hr | |
| Chipset | Mobile Intel QM57 Express Chipset | Supports ThinkVantage® technologies |
| ExpressCard/34 | One slot (ExpressCard/34) | |
| Smart Card Read | None | 135-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Multicard Reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | |
| Ports | Two USB 3.0, one Powered USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | |
| PCIe Mini Card | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Ultimate-N 6300, 3x3 Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | |
| Carrier | Some: AT&T®, contract required with service provider | |
| Modem | 56K V.92 ⁶ modem | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 41C9176 |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | ThinkPlus 4-year LOR 9x5 NBD 41C9177 |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | ThinkPlus 5-year LOR 9x5 NBD 41C9179 |
| Intel AMT | Intel Active Management Technology (iAMT) | ThinkPlus 4-year P&L P/U Depot 41C9178 |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus 5-year P&L P/U Depot 41C9180 |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Fingerprint reader | UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |

See footnotes for important warranty information

⊗ US model announced September 28, 2010; previous models on January 7, February 2, or March 2, 2010

⊗ US model withdrawn effective February 2010

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(KN1W-1) October 2010

ThinkPad® W510 4319 (TopSeller) - Windows 7 (July 2010)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Disk SATA GB ³ rpm | RAID | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Color calib | Bat-tery cells | Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------------|---------------------|-------------------------------|------|--------------------------|---------------------|-------------|----------------|------------|---------|------------|
| 4319-5RU | i5-520M | 2.40 | 2.93 | 2GBx1 | 1066 15.6" HD+ | 320G 7200 | None | Intel 6300 ²⁸ | WWAN upg | None | 9 | | Pro 64 | Jul 10 |
| 4319-5SU | i7-620M | 2.66 | 3.33 | 2GBx2 | 1066 15.6" FHD | 320G 7200 | None | Intel 6300 | WWAN upg | None | 9 | | Pro 64 | Jul 10 |
| 4319-5XU | i5-560M | 2.66 | 3.20 | 4GBx1 | 1333 15.6" HD+ | 320G 7200 | None | Intel 6200 ²⁸ | WWAN upg | None | 6 | vPro | Pro 64 | Sep 10 |
| 4319-65U | i5-560M | 2.66 | 3.20 | 2GBx1 | 1066 15.6" HD+ | 320G 7200 | None | Intel 6300 | WWAN upg | None | 9 | vPro | Pro 64 | Sep 10 |

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- Power-packed engineering with Open GL graphics and ISV certifications
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Positioning Processor | <i>Mobile workstation; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-560M with dual-core, or Intel Core i7 processor i7-620M with dual-core. DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i5-520M/i5-560M: 3MB cache; i7-620M: 4MB cache</i> | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed) | | | |
| Memory | 2GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | | | |
| Widescreen display | <i>Some: 15.6"</i> (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut <i>Some: 15.6"</i> (396mm) FHD (1920x1080) color , anti-glare, LED backlight , 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut | | | | | | | | | | | | | |
| Color calibration | None | | | | | | | | | | | | | |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Discrete graphics | NVIDIA® Quadro® FX880M , PCI Express® x16, 1GB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915)</i> | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | |
| Dimensions (WxDxH) ³ | <i>HD+:</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>FHD:</i> 14.68" x 9.65" x 1.29-1.44"; 372.8mm x 245.1mm x 32.8-36.6mm | | | | | | | | | | | | | |
| Weight ² | <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic | | | | | | | | | | | | | |
| Battery - type | Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery | | | | | | | | | | | | | |
| Battery - life ¹⁰ | <i>6-cell:</i> up to 3.0 hr; <i>9-cell:</i> up to 5.1 hr; <i>9-cell plus slice battery:</i> up to 10.5 hr | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| ExpressCard/34 Smart Card Read Multicard Reader Ports | One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Two USB 3.0, one Powered USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | 135-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| PCIe Mini Card Intel 6200 ²⁸ Intel 6300 ²⁸ WWAN upg | Two PCI Express Mini Card slots <i>Some: 11a/b/g/n wireless⁴, PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2</i> <i>Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3</i> Wireless WAN upgradable | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 41C9176 | | | |
| Modem | 56K V.92 ⁵ modem | | | | | | | | | | ThinkPlus 4-year LOR 9x5 NBD 41C9177 | | | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | ThinkPlus 5-year LOR 9x5 NBD 41C9179 | | | |
| Ethernet | <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | ThinkPlus 4-year P&L P/U Depot 41C9178 | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | ThinkPlus 5-year P&L P/U Depot 41C9180 | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | |
| Fingerprint reader | UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | | | |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | | | | | | | | | | | | | |

See footnotes for important warranty information

US models announced September 28, 2010; previous models on July 13, 2010

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| Type-model | Processor | Max Base turbo (GHz) | Memory (MHz) | Wide-screen display | Multi-Touch Screen | Cam-era | Disk SATA GB ⁸ rpm RAID | SATA optical | PCIe Mini Card 802.11 | Blue/Color Fing calib | Bat-tery Intel vPro | Workhorse (W) Pre-GMP (P) Avail (G) date |
|------------|-----------|----------------------|--------------|---------------------|--------------------|---------|------------------------------------|--------------|--------------------------|-----------------------|---------------------|--|
| 4389-22U | i7-720QM | 1.60 2.80 | 2GBx1 1066 | 15.6" HD | | | 250G 5400 | DVD±RW | Intel 6200 ²⁸ | | 6 vPro | Pro 32 G Jan 10 |
| 4389-23U | i7-820QM | 1.73 3.06 | 2GBx2 1066 | 15.6" HD+ | | | 320G 7200 | DVD±RW | Intel 6200 | Yes | 9 vPro | Pro 32 G Jan 10 |
| 4389-24U | i7-820QM | 1.73 3.06 | 4GBx1 1333 | 15.6" HD+ | | 2.0M | 500G 7200 1 | | Intel 6300 ²⁸ | Yes | 9 vPro | Pro 64 Jan 10 |
| 4389-2SU | i7-920XM | 2.00 3.20 | 4GBx1 1333 | 15.6" HD+ | | 2.0M | 320G 7200 1 | | Intel 6300 | Yes | 9 vPro | Pro 64 Jan 10 |
| 4389-2TU | i7-720QM | 1.60 2.80 | 2GBx2 1066 | 15.6" HD+ | | 2.0M | 320G 7200 | DVD±RW | Intel 6200 | Yes | 9 vPro | Pro 32 Jan 10 |
| 4389-2UU | i7-820QM | 1.73 3.06 | 2GBx2 1066 | 15.6" FHD | Multi | 2.0M | 500G 7200 | DVD±RW | Intel 6300 | Yes X-Rite | 9 vPro | Pro 32 Jan 10 |
| 4389-N9U | i7-820QM | 1.73 3.06 | 4GBx1 1333 | 15.6" FHD | | 2.0M | 320G 7200 | DVD±RW | Intel 6300 | Yes X-Rite | 6 vPro | Pro 64 G Aug 10 |

- Power-packed engineering with Open GL graphics and ISV certifications
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|---|--|---|
| Positioning Processor | Mobile workstation; two spindles Intel® Core™ i7 processor i7-720QM, i7-820QM, or i7-920XM with quad-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i7-720QM: 6MB cache; i7-820QM/i7-920XM: 8MB cache</i> | Preloaded operating system ²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB or 4GB std / 16GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, four 204-pin SO-DIMM sockets | Preloaded applications ¹⁴ (only some listed) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | Some: DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 250GB ⁸ (5400 rpm), 320GB (7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, Shock Mounted Hard Drive, Active Protection System™ | <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) • huey™PRO Monitor Color Correction by Pantone®/X-Rite® (color calibration models) |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) FHD (1920x1080) color , anti-glare, LED backlight , 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut Some: 15.6" (396mm) FHD (1920x1080) color , anti-glare, LED backlight , 242 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut, MultiTouch (touchscreen supports two-finger touch) | |
| Color calibration Camera | Some: huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Some: camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | NVIDIA® Quadro® FX880M , PCI Express® x16, 1GB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915)</i> | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions (WxDxH) ³ | <i>HD & HD+:</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>FHD:</i> 14.68" x 9.65" x 1.29-1.44"; 372.8mm x 245.1mm x 32.8-36.6mm <i>FHD MultiTouch:</i> 14.68" x 9.65" x 1.35-1.57"; 372.8mm x 245.1mm x 34.3-39.8mm | |
| Weight ² | <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) | |
| Case material | <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic | |
| Battery - type | Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery | |
| Battery - life ¹⁰ | <i>6-cell:</i> up to 3.0 hr; <i>9-cell:</i> up to 5.1 hr; <i>9-cell plus slice battery:</i> up to 10.5 hr | |
| Chipset | Mobile Intel QM57 Express Chipset | Supports ThinkVantage® technologies |
| ExpressCard/34 | One slot (ExpressCard/34) | |
| Smart Card Read | None | 135-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant |
| Multicard Reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378 |
| Ports | Two USB 3.0, one Powered USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | |
| PCIe Mini Card | Two PCI Express Mini Card slots Some: 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 | |
| WWAN upg | Wireless WAN upgradable | |
| Modem | 56K V.92 ⁵ modem | |
| Bluetooth™ | Some: Bluetooth 2.1 wireless, LED indicator | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 41C9176 |
| Ethernet | <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | ThinkPlus 4-year LOR 9x5 NBD 41C9177 |
| Intel AMT | Intel Active Management Technology (iAMT) | ThinkPlus 5-year LOR 9x5 NBD 41C9179 |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus 4-year P&L P/U Depot 41C9178 |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | ThinkPlus 5-year P&L P/U Depot 41C9180 |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Fingerprint reader | Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Limited warranty ¹² | 3-years/1-yr battery - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information

US model announced August 3, 2010; previous models on January 7, 2010

ThinkPad® W510 4389 (Windows 7) - July 2010

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ⁵ | rpm | RAID | PCIe Mini Card 802.11 | Smart Card Reader | Finger print reader | Blue-tooth | Intel vPro | Preload | Workhorse (W) GMP (P) Avail date |
|------------|-----------|------------|-----------------|--------------|---------------------|--------|---------------------------|------|------|--------------------------|-------------------|---------------------|------------|------------|----------|----------------------------------|
| 4389-P2U | i7-620M | 2.66 | 3.33 | 4GBx2 1333 | 15.6" FHD | 2.0M | 500G | 7200 | No | Intel 6200 ²⁸ | | Finger | Blue | No | Pro 64 | G Jul 10 |
| 4389-P3U | i7-620M | 2.66 | 3.33 | 2GBx2 1066 | 15.6" HD+ | | 160G | 7200 | No | Intel 6200 | Smart | Blue | No | Pro 64 | G Jul 10 | |
| 4389-P9U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 15.6" HD | | 250G | 5400 | No | Intel 6200 | | | No | Pro 32 | G Jul 10 | |
| 4389-PAU | i7-620M | 2.66 | 3.33 | 2GBx2 1066 | 15.6" HD+ | | 320G | 7200 | No | Intel 6200 | | Finger | Blue | No | Pro 32 | G Jul 10 |

- Power-packed engineering with Open GL graphics and ISV certifications
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | <i>Mobile workstation; two spindles</i> Intel® Core™ i5 processor i5-520M with dual-core, or Intel Core i7 processor i7-620M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i5-520M: 3MB cache; i7-620M: 4MB cache</i> | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB, 4GB, or 8GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 160GB⁶ (7200 rpm), 250GB (5400 rpm), 320GB (7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, Shock Mounted Hard Drive, Active Protection System™ | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut <i>Some:</i> 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color , anti-glare, LED backlight , 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut | |
| Color calibration | None | |
| Camera | <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Discrete graphics | NVIDIA® Quadro® FX880M , PCI Express® x16, 1GB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions (WxDxH) ³ Weight ² Case material Battery - type Battery - life ¹⁰ | <i>HD & HD+:</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>FHD:</i> 14.68" x 9.65" x 1.29-1.44"; 372.8mm x 245.1mm x 32.8-36.6mm <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery <i>6-cell:</i> up to 3.0 hr; <i>9-cell:</i> up to 5.1 hr; <i>9-cell plus slice battery:</i> up to 10.5 hr | Supports ThinkVantage® technologies |
| Chipset ExpressCard/34 Smart Card Read Multicard Reader Ports | Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) <i>Some:</i> Smart Card reader 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Two USB 3.0, one Powered USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | 135-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁵ modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | ThinkPlus™.22 3-year LOR ²⁴ 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty ¹² 3-years/1-yr battery - depot repair service / service upgrades ²² available | | |

See footnotes for important warranty information
US models announced July 13, 2010

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(KN1W-6) July 2010

| Type-model | Processor | Max Base (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ⁸ | rpm | RAID | PCIe Mini Card 802.11 | Blue/ Fing | Color calib | Bat- tery cells | Intel vPro | Workhorse (W) GMP (P) Gbl (G) | Avail date |
|------------|-----------|----------------|-----------------|--------------|---------------------|--------|---------------------------|------|------|--------------------------|------------|-------------|-----------------|------------|-------------------------------|------------|
| 4391-22U | i7-720QM | 1.60 | 2.80 | 2GBx1 1066 | 15.6" HD | | 250G | 5400 | None | Intel 6200 ²⁸ | | | 6 | vPro | Pro 32 | G P Jan 10 |
| 4391-23U | i7-820QM | 1.73 | 3.06 | 2GBx2 1066 | 15.6" HD+ | | 320G | 7200 | None | Intel 6200 | Yes | | 9 | vPro | Pro 32 | G P Jan 10 |
| 4391-N9U | i7-820QM | 1.73 | 3.06 | 4GBx1 1333 | 15.6" FHD | 2.0M | 320G | 7200 | None | Intel 6300 ²⁸ | Yes | X-Rite | 6 | vPro | Pro 64 | G P Aug 10 |

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

| | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Mobile workstation; two spindles</i> Intel® Core™ i7 processor i7-720QM or i7-820QM with quad-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i7-720QM: 6MB cache; i7-820QM: 8MB cache</i> | | | | | | | | | | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 | | | | | |
| Memory | 2GB or 4GB std / 16GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, four 204-pin SO-DIMM sockets | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | | | |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 250GB⁸ (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | | | | | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut <i>Some:</i> 15.6" (396mm) HD+ (1600x900) color , anti-glare, LED backlight , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color , anti-glare, LED backlight , 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut | | | | | | | | | | | | | | | |
| Color calibration Camera | <i>Some:</i> huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | | | |
| Discrete graphics | NVIDIA® Quadro® FX880M , PCI Express® x16, 1GB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915)</i> | | | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | | | |
| Dimensions (WxDxH) ³ | <i>HD & HD+:</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>FHD:</i> 14.68" x 9.65" x 1.29-1.44"; 372.8mm x 245.1mm x 32.8-36.6mm | | | | | | | | | | | | | | | |
| Weight ² | <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) | | | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic | | | | | | | | | | | | | | | |
| Battery - type | Lithium Ion 6-cell or 9-cell , supports optional Slice battery (57Y4545) as 2nd battery | | | | | | | | | | | | | | | |
| Battery - life ¹⁰ | <i>6-cell:</i> up to 3.0 hr; <i>9-cell:</i> up to 5.1 hr; <i>9-cell plus slice battery:</i> up to 10.5 hr | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | | | | | |
| ExpressCard/34 | One slot (ExpressCard/34) | | | | | | | | | | | | | | | |
| Smart Card Read | None | | | | | | | | | | | | | | | |
| Multicard Reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0, one Powered USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | | | | | | |
| PCIe Mini Card | Two PCI Express Mini Card slots <i>Some:</i> 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 WWAN upg Wireless WAN upgradable 56K V.92 ⁶ modem | | | | | | | | | | Supports ThinkVantage® technologies | | | | | |
| Modem | 56K V.92 ⁶ modem | | | | | | | | | | | | | | | |
| Bluetooth™ | <i>Some:</i> Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | | | | | | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | |
| Fingerprint reader | <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, 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 9x5 NBD 12X5630 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | | | |

See footnotes for important warranty information

Ⓜ US model announced August 3, 2010; previous models on January 7, 2010

| Type-model | Processor | Max Base (GHz) | Max turbo (GHz) | Memory (MHz) | Wide-screen display | Camera | Disk SATA GB ⁵ rpm | RAID | PCIe Mini Card 802.11 | Smart Card Reader | Finger print reader | Blue-tooth | Intel vPro | Preload | Workhorse (W) GMP (P) Gbl (G) | Avail date |
|------------|-----------|----------------|-----------------|--------------|---------------------|--------|-------------------------------|------|--------------------------|-------------------|---------------------|------------|------------|---------|-------------------------------|------------|
| 4391-P2U | i7-620M | 2.66 | 3.33 | 4GBx2 1333 | 15.6" FHD | 2.0M | 500G 7200 | No | Intel 6200 ²⁸ | | Finger | Blue | No | Pro 64 | G P | Jul 10 |
| 4391-P3U | i7-620M | 2.66 | 3.33 | 2GBx2 1066 | 15.6" HD+ | | 160G 7200 | No | Intel 6200 | Smart | | Blue | No | Pro 64 | G P | Jul 10 |
| 4391-P9U | i5-520M | 2.40 | 2.93 | 2GBx1 1066 | 15.6" HD | | 250G 5400 | No | Intel 6200 | | | | No | Pro 32 | G P | Jul 10 |
| 4391-PAU | i7-620M | 2.66 | 3.33 | 2GBx2 1066 | 15.6" HD+ | | 320G 7200 | No | Intel 6200 | | Finger | Blue | No | Pro 32 | G P | Jul 10 |

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

| | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Mobile workstation; two spindles</i> Intel® Core™ i5 processor i5-520M with dual-core, or Intel Core i7 processor i7-620M with dual-core. DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i5-520M: 3MB cache; i7-620M: 4MB cache</i> | | | | | | | | | | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 | | | | | |
| Memory | 2GB, 4GB, or 8GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW) | | | | | |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access 160GB⁸ (7200 rpm), 250GB (5400 rpm), 320GB (7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports second disk, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | | | | | |
| Widescreen display | <i>Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut</i> <i>Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut</i> <i>Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut</i> | | | | | | | | | | | | | | | |
| Color calibration | None | | | | | | | | | | | | | | | |
| Camera | <i>Some: camera on top of screen, 2.0-megapixel, fixed focus</i> | | | | | | | | | | | | | | | |
| Discrete graphics | NVIDIA® Quadro® FX880M , PCI Express® x16, 1GB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915)</i> | | | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | | | |
| Dimensions (WxDxH) ³ | <i>HD & HD+:</i> 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm <i>FHD:</i> 14.68" x 9.65" x 1.29-1.44"; 372.8mm x 245.1mm x 32.8-36.6mm | | | | | | | | | | | | | | | |
| Weight ² | <i>6-cell:</i> starting at 5.66 lb (2.57kg); <i>9-cell:</i> starting at 6.01 lb (2.72kg) | | | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Glass-fiber reinforced plastic; <i>Base:</i> Carbon-fiber reinforced plastic | | | | | | | | | | | | | | | |
| Battery - type | Lithium Ion 9-cell , supports optional Slice battery (57Y4545) as 2nd battery | | | | | | | | | | | | | | | |
| Battery - life ¹⁰ | <i>6-cell:</i> up to 3.0 hr; <i>9-cell:</i> up to 5.1 hr; <i>9-cell plus slice battery:</i> up to 10.5 hr | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | | | | | |
| ExpressCard/34 | One slot (ExpressCard/34) | | | | | | | | | | | | | | | |
| Smart Card Read | <i>Some: Smart Card reader</i> | | | | | | | | | | | | | | | |
| Multicard Reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0, one Powered USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) | | | | | | | | | | | | | | | |
| PCIe Mini Card | Two PCI Express Mini Card slots | | | | | | | | | | | | | | | |
| Intel 6200 ²⁸ | 11a/b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Advanced-N 6200, 2x2 | | | | | | | | | | | | | | | |
| WWAN upg | Wireless WAN upgradable | | | | | | | | | | | | | | | |
| Modem | 56K V.92 ⁶ modem | | | | | | | | | | | | | | | |
| Bluetooth™ | <i>Some: Bluetooth 2.1 wireless, LED indicator</i> | | | | | | | | | | | | | | | |
| Ethernet | Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack | | | | | | | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | |
| Fingerprint reader | <i>Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip</i> | | | | | | | | | | | | | | | |
| 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 | | | | | |
| | | | | | | | | | | | 135-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 12X5630 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | | | |

See footnotes for important warranty information
US models announced July 13, 2010

Memory

| | | |
|--|---------|--------------|
| 1GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3706 | ann 06/23/09 |
| 1GB PC3-8500 DDR3 L-H SODIMM (25Pack) | 57Y4385 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3707 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 L-H SODIMM (25Pack) | 57Y4386 | ann 06/23/09 |
| 4GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3708 | ann 06/23/09 |
| 1GB PC3-10600 DDR3 L-H SODIMM | 55Y3709 | ann 03/02/10 |
| 1GB PC3-10600 DDR3 L-H SODIMM (25Pack) | 57Y4415 | ann 03/02/10 |
| 2GB PC3-10600 DDR3 L-H SODIMM | 55Y3710 | ann 03/02/10 |
| 2GB PC3-10600 DDR3 L-H SODIMM (25Pack) | 57Y4416 | ann 03/02/10 |
| 4GB PC3-10600 DDR3 L-H SODIMM | 55Y3711 | ann 03/02/10 |

Ultrabay Slim 9.5mm

| | | |
|---|---------|--------------|
| Serial ATA Hard Drive Bay Adapter III ⁴⁸ | 43N3412 | ann 06/23/09 |
|---|---------|--------------|

Ultrabay Enhanced 12.7mm

| | | |
|--|---------|--------------|
| DVD Burner Ultrabay Enhanced II SATA | 43N3294 | ann 01/07/10 |
| Blu-ray Reader / DVD Burner Ultrabay Enh | 43N3295 | ann 01/07/10 |

Storage and removable storage

| | | |
|--|---------|--------------|
| 160GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 41N5737 | ann 10/16/07 |
| 250GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43R8152 | ann 01/15/08 |
| 250GB Disk FDE SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3410 | ann 01/20/09 |
| 320GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43N3403 | ann 08/05/08 |
| 320GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3411 | ann 01/20/09 |
| 500GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3423 | ann 01/07/10 |

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter III 43N3412 in the Ultrabay

| | | |
|--|---------|--------------|
| 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) | 43N3406 | ann 08/26/08 |
| 256GB FDE SSD SATA 3Gb/s 1.8"(2.5" cover) | 43N3417 | ann 06/23/09 |
| ThinkPad 160GB Intel X25-M SSD ⁴¹ | 43N3435 | ann 06/22/10 |

| | | |
|---|---------|--------------|
| USB 2.0 Portable 320GB Hard Disk | 45K1689 | ann 03/17/09 |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | ann 05/26/09 |
| USB 2.0 Portable Secure 160GB Hard Disk | 43R2018 | ann 11/18/08 |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | ann 11/18/08 |
| eSATA/USB 2.0 Secure 500GB Hard Drive | 57Y4400 | ann 01/07/10 |
| USB 2.0 Portable DVD Burner | 43N3264 | ann 01/05/10 |

Wireless WAN (Mini PCI Express)

Only WWAN upgradable models:

| | | |
|---|---------|--------------|
| ThinkPad Gobi™ 2000 Broadband Option | 78Y1399 | ann 01/07/10 |
| ThinkPad AT&T® Gobi 2000 Broadband Option | 78Y1398 | ann 01/07/10 |

ThinkPad Expansion

T510:

| | | |
|-----------------------------------|---------|--------------|
| ThinkPad Port Replicator Series 3 | 433610W | ann 06/23/09 |
| ThinkPad Mini Dock Series 3 | 433710U | ann 06/23/09 |
| ThinkPad Mini Dock Plus Series 3 | 433810U | ann 06/23/09 |

All:

| | | |
|--|---------|--------------|
| Lenovo® Essential Notebook Stand | 45J9292 | ann 05/12/09 |
| USB Port Replicator with Digital Video | 45K1610 | ann 07/28/09 |
| ThinkPad Mini Dock Plus Series 3 - Mobile WS | 433820U | ann 01/07/10 |

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 |
| Ultralim Wireless Keyboard and Mouse ⁵² | 57Y4700 | ann 09/15/09 |
| ⁵² Wireless via 2.4GHz technology using a micro-size USB receiver. | | |
| ThinkPad USB Keyboard with TrackPoint | 55Y9003 | ann 08/18/09 |
| Lenovo® USB Fingerprint Keyboard | 73P4730 | ann 02/22/05 |
| Lenovo USB Smartcard Keyboard | 51J0155 | ann 03/24/09 |

Mouse

| | | |
|--|---------|--------------|
| Lenovo Optical Mouse (USB) | 06P4069 | ann 05/21/03 |
| Lenovo Laser Mouse (USB) | 41U3074 | ann 01/23/07 |
| ThinkPad USB Laser Mouse | 57Y4635 | ann 12/15/09 |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | ann 08/27/02 |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | ann 06/04/02 |
| ThinkPad Bluetooth Laser Mouse | 41U5008 | ann 01/22/08 |

Multimedia

| | | |
|----------------------------|---------|--------------|
| ThinkPad In-Ear Headphones | 57Y4488 | ann 01/07/10 |
|----------------------------|---------|--------------|

Security

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

Batteries

| | | |
|---|---------|--------------|
| ThinkPad Battery 55+ (6-cell) | 57Y4185 | ann 03/30/10 |
| ThinkPad Battery 55++ (9-cell) | 57Y4186 | ann 03/30/10 |
| ThinkPad Battery 27++ (9-cell, slice) ⁴³ | 57Y4545 | ann 01/07/10 |
| ⁴³ To be used along with system battery for all-day computing; attaches under ThinkPad using docking connector (not supported when using Series 3 Port Replicator or Docks). | | |
| ThinkPad External Battery Charger | 40Y7625 | ann 09/20/05 |

More information at www.lenovo.com/alldaycomputing

T510:

| | | |
|--|---------|--------------|
| ThinkPad 65W AC Adapter ⁴⁵ | 40Y7696 | ann 01/05/06 |
| ⁴⁵ Only compatible with the integrated graphics models. | | |
| ThinkPad 90W AC Adapter | 40Y7659 | ann 09/20/05 |
| Lenovo Power Hub | 57Y4600 | ann 09/07/10 |
| 90W Ultralim AC/DC Combo Adapter | 41R4493 | ann 09/22/09 |

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

| | | |
|-------------------------------------|---------|--------------|
| •Palm device charge tip (L7) | 41R4315 | ann 12/18/07 |
| •iPod and iPhone Charge Tip (L10a) | 41R4481 | ann 12/18/07 |
| •Generic Micro USB charge tip (L18) | 41R4490 | ann 01/06/09 |

More information at www.lenovopowertips.com

W510:

| | | |
|--------------------------|---------|--------------|
| ThinkPad 135W AC Adapter | 55Y9317 | ann 01/07/10 |
|--------------------------|---------|--------------|

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

Carrying Cases

Up to 15.6" widescreen models:

| | | |
|--------------------------------|---------|--------------|
| ThinkPad 15W Case Sleeve | 51J0477 | ann 08/18/09 |
| Lenovo Business Messenger Case | 51J0475 | ann 08/18/09 |
| Lenovo Messenger Max | 41U5253 | ann 05/01/07 |
| Lenovo Performance Backpack | 41U5254 | ann 05/01/07 |
| ThinkPad Business Backpack | 43R2482 | ann 05/13/08 |

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

Monitors

| | | |
|-------------------------------------|---------|--------------|
| Lenovo L2230x Wide 21.5" Monitor | 5453HB1 | ann 06/10/10 |
| ThinkVision® L1711p 17" Monitor | 5047HB2 | ann 10/20/09 |
| ThinkVision L1900p 19" Monitor | 4431HE1 | ann 11/11/08 |
| ThinkVision L1951p Wide 19" Monitor | 2448HB6 | ann 10/20/09 |
| ThinkVision L2250p Wide 22" Monitor | 2572HB6 | ann 10/20/09 |
| ThinkVision L2251p Wide 22" Monitor | 2572HD6 | ann 09/16/09 |
| ThinkVision L2251x Wide 22" Monitor | 2578HB6 | ann 10/20/09 |
| ThinkVision L2321x Wide 23" Monitor | 4014HB6 | ann 06/10/10 |

Monitor Accessories⁴⁶

| | | |
|---|---------|--------------|
| Lenovo USB-to-DVI Monitor Adapter | 45K5296 | ann 05/12/09 |
| Lenovo DisplayPort to VGA Monitor Cable | 57Y4393 | ann 08/04/09 |
| 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 MicroSaver Cable Lock | 73P2582 | ann 12/29/03 |
| Kensington Twin Head Cable Lock | 45K1620 | ann 09/30/08 |
| Lenovo Security Cable Lock | 57Y4303 | ann 08/24/10 |
| Lenovo Easy Reach Monitor Stand | 55Y9258 | ann 09/22/09 |

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on ThinkPad accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/notebookaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories
 Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo® ThinkPad W701



Lenovo ThinkPad W701 with
ThinkPad W700 Mini Dock 2.0
57Y4345



ThinkPad 170W AC Adapter
41R4421



ThinkPad Battery 37++ (9-cell)
45J7914



Lenovo ThinkPad W701



Lenovo ThinkPad W701

ThinkPad® W701 2500 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Memory (MHz) | Widescreen display | Discrete graphics | Disk(s) SATA GB ⁸ rpm | RAID | SATA optical | PCIe Mini Card 802.11 | Card slot | Color calib/ Adapter Intel vPro | Power (watt) Preload | Avail date |
|------------|-----------|--------------|--------------------|-------------------|----------------------------------|------|--------------|--------------------------|-----------|---------------------------------|----------------------|------------|
| 2500-3AU | i7-720QM | 2GBx1 1066 | 17" WXGA+ | FX2800M | 1x320G 7200 | No | DVD±RW | Intel 6300 ²⁸ | Exp 54 | 230W vPro | Pro 64 | Mar 10 |
| 2500-3BU | i7-820QM | 2GBx2 1066 | 17" WUXGA | FX2800M | 1x320G 7200 | No | DVD±RW | Intel 6300 | Smart | Yes 230W vPro | Pro 64 | Mar 10 |

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

| | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|-------------------------------------|
| Positioning Processor | <i>Mobile workstation; three spindles</i> Intel® Core™ i7 processor i7-720QM or i7-820QM with quad-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i7-720QM: 1.60GHz, 6MB cache; i7-820QM: 1.73GHz, 8MB cache</i> | | | | | | | | | | Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 | |
| Memory | 2GB or 4GB std / 16GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 204-pin SO-DIMM sockets | | | | | | | | | | Preloaded applications ¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • Fingerprint Software • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) | |
| SATA DVD±RW Ultrabay Enhanced SATA disk(s) | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high One disk, 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 3rd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | | | |
| Widescreen display | <i>Some: 17.0"</i> (433.0mm) WXGA+ (1440x900) color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 300:1 contrast ratio, 45% color gamut <i>Some: 17.0"</i> (433.0mm) WUXGA (1920x1200) color , anti-glare, RGB LED backlight , 280 nits, 16:10 aspect ratio, 600:1 contrast ratio, 100% color gamut | | | | | | | | | | | ISV software certifications |
| Color calibration Camera | <i>Some: huey™PRO</i> Colorimeter by X-Rite® color calibration sensor in palm rest Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | Supports ThinkVantage® technologies |
| Discrete graphics | NVIDIA® Quadro® FX2800M , PCI Express® x16, 1GB memory supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort or dual-link DVI-D) @60Hz; 2048x1536 (VGA) @85Hz</i> | | | | | | | | | | ThinkPad W700 Mini Dock 2.0 Provides desktop expansion and cable mgmt for W700 and W701 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 or 230 watt AC adptry | |
| 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 <i>Some: Wacom® digitizer (128x80mm) on palm rest, digitizer pen, pen holder in right side</i> Two LEDs illuminate the keyboard to improve visibility in low-light conditions | | | | | | | | | | | |
| Dimensions ³ Weight ² Case material | <i>9-cell 17W" (WxDxH):</i> 16.1" x 12.2" x 1.60-1.63"; 410mm x 310mm x 40.6-41.4mm <i>9-cell:</i> starting at 8.97 lb (4.07kg) <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 2.0 hr | | | | | | | | | | | |
| Chipset ExpressCard/34 ExpressCard/54 Compact Flash Smart Card Read Multicard Reader Ports | Mobile Intel QM57 Express Chipset One ExpressCard/34 <i>Some: [54] One ExpressCard/34 or ExpressCard/54</i> None <i>Some: Smart Card Reader</i> 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One USB 3.0, Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, 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) | | | | | | | | | | 230-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 | |
| PCIe Mini Card Intel 6300 ²⁸ Modem Bluetooth™ Ethernet Intel AMT Audio support | One PCI Express Half Mini Card slot 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Ultimate-N 6300, 3x3 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack | | | | | | | | | | ThinkPlus™.22 3-year LOR ²⁴ 9x5 NBD 41C9176 ThinkPlus 4-year LOR 9x5 NBD 41C9177 ThinkPlus 5-year LOR 9x5 NBD 41C9179 | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | ThinkPlus 4-year P&L P/U Depot 41C9178 ThinkPlus 5-year P&L P/U Depot 41C9180 | |
| Limited warranty ¹² | 3-year - depot repair service / service upgrades ²² available | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | |

See footnotes for important warranty information
US models announced February 23, 2010

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(NIC3-1) February 2010

| Type-model | Processor | Memory (MHz) | Widescreen display | Camera | Discrete graphics | Disk(s) SATA GB ⁸ rpm | RAID | Card slot | Color calib/ Adapter Intel vPro | Power (watt) | Workhorse (W) Global (G) Avail date |
|------------|-----------|--------------|--------------------|--------|-------------------|----------------------------------|------|-----------|---------------------------------|--------------|-------------------------------------|
| 2541-25U | i7-920XM | 2GBx2 1066 | 17" WUXGA | | FX3800M | 320G 7200 x 2 | 0 | CF | Yes | 230W | Pro 64 Mar 10 |
| 2541-28U | i7-920XM | 4GBx2 1333 | 17" WUXGA | 2.0M | FX3800M | 128G SSD + 320G 5400 | | CF | Yes | 230W | Pro 64 Mar 10 |
| 2541-29U | i7-920XM | 2GBx2 1066 | 17" WUXGA | | FX2800M | 320G 5400 | | CF | Yes | 230W | Pro 64 Mar 10 |
| 2541-4HU | i7-820QM | 2GBx2 1066 | 17" WUXGA | 2.0M | FX3800M | 500G 7200 x 2 | | Smart | Yes | 230W vPro | Pro 64 W Mar 10 |
| 2541-4KU | i7-820QM | 4GBx1 1333 | 17" WUXGA | 2.0M | FX2800M | 320G 5400 x2 | 0 | Smart | Yes | 230W vPro | Pro 64 W Mar 10 |
| ≈ 2541-58U | i7-720QM | 2+1GB 1066 | 17" WXGA+ | | FX2800M | 320G 7200 | | Exp 54 | | 170W vPro | Pro 64 W G Mar 10 |
| 2541-59U | i7-820QM | 2GBx2 1066 | 17" WUXGA | 2.0M | FX2800M | 500G 7200 x 2 | | Exp 54 | | 230W vPro | Pro 64 W G Mar 10 |
| 2541-5BU | i7-820QM | 2GBx2 1066 | 17" WUXGA | 2.0M | FX3800M | 128G SSD + 500G 7200 | | Exp 54 | | 230W vPro | Pro 64 W G Mar 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|--|--|--|
| Positioning Processor | Mobile workstation; three spindles Intel® Core™ i7 processor i7-720QM, i7-820QM, or i7-920XM with quad-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology; i7-720QM: 1.60GHz, 6MB cache; i7-820QM/i7-920XM: 1.73GHz/2.00GHz, 8MB cache | Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Preloaded applications ¹⁴ (only some listed) |
| Memory | 3GB, 4GB, or 8GB std / 16GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, four 204-pin SO-DIMM sockets | • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) |
| SATA DVD±RW Ultrabay Enhanced SATA disk(s) | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high Some: One disk, 320GB ⁸ (5400 or 7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ (APS) Some: Two same disks, 320GB (5400 or 7200 rpm) or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, APS Some: Two disks, 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high and 320GB (5400 rpm) or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, APS All: removable, upgradable, supports three disks max, Shock Mounted Hard Drive | |
| Widescreen display | Some: 17.0" (433.0mm) WXGA+ (1440x900) color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio, 45% color gamut Some: 17.0" (433.0mm) WUXGA (1920x1200) color, anti-glare, RGB LED backlight, 280 nits, 16:10 aspect ratio, 600:1 contrast ratio, 100% color gamut | ISV software certifications |
| Color calibration Camera | Some: huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Some: camera on top of screen, 2.0-megapixel, fixed focus | Supports ThinkVantage® technologies |
| Discrete graphics | Some: NVIDIA® Quadro® FX2800M, PCI Express® x16, 1GB memory Some: NVIDIA Quadro FX3800M, PCI Express x16, 1GB memory supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort or dual-link DVI-D) @ 60Hz; 2048x1536 (VGA) @ 85Hz | ThinkPad W700 Mini Dock 2.0 Provides desktop expansion and cable mgmt for W700 and W701 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 or 230 watt AC adptr |
| 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 1.60-1.63"; 410mm x 310mm x 40.6-41.4mm 9-cell: starting at 8.97 lb (4.07kg) Top: magnesium alloy; Bottom: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 9-cell 9-cell: up to 2.0 hr | |
| Chipset ExpressCard/34 ExpressCard/54 Compact Flash Smart Card Read Multicard Reader Ports | Mobile Intel QM57 Express Chipset One ExpressCard/34 Some: [54] One ExpressCard/34 or ExpressCard/54 Some: [CF] One Type I slot Some: Smart Card Reader 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One USB 3.0, Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, 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) | 170-watt or 230-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card Modem Bluetooth™ Ethernet | One PCI Express Half Mini Card slot 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Ultimate-N 6300, 3x3 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Non-vPro model: Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 vPro model: Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | ThinkPlus™, 22 3-year LOR ²⁴ 9x5 NBD 41C9176 ThinkPlus 4-year LOR 9x5 NBD 41C9177 ThinkPlus 5-year LOR 9x5 NBD 41C9179 |
| Intel AMT Audio support | Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack | ThinkPlus 4-year P&L P/U Depot 41C9178 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | ThinkPlus 5-year P&L P/U Depot 41C9180 |
| Limited warranty ¹² | 3-year - depot repair service / service upgrades ²² available | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |

See footnotes for important warranty information
US models announced February 23, 2010
≈ US model withdrawn effective August 2010

| Type-model | Processor | Memory (MHz) | Widescreen display | Camera | Discrete graphics | Disk(s) SATA GB ⁸ rpm | RAID | Color calib/ Adapter Digitizer (watt) | Power vPro | Intel Preload | Workhorse (W) Global (G) GMP (P) | Avail date |
|------------|-----------|--------------|--------------------|--------|-------------------|----------------------------------|------|---------------------------------------|------------|---------------|----------------------------------|------------|
| 2542-58U | i7-720QM | 2+1GB 1066 | 17" WXGA+ | | FX2800M | 320G 7200 | None | None | 170W | vPro | Pro 64 W G P | Mar 10 |
| 2542-59U | i7-820QM | 2GBx2 1066 | 17" WUXGA | 2.0M | FX2800M | 500G 7200 x 2 | None | None | 230W | vPro | Pro 64 W G P | Mar 10 |
| 2542-5BU | i7-820QM | 2GBx2 1066 | 17" WUXGA | 2.0M | FX3800M | 128G SSD + 500G 7200 | None | None | 230W | vPro | Pro 64 W G P | Mar 10 |

- These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Mobile workstation; three spindles</i> Intel® Core™ i7 processor i7-720QM or i7-820QM with quad-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i7-720QM: 1.60GHz, 6MB cache; i7-820QM: 1.73GHz, 8MB cache</i> | | | | | | | | | | |
| Memory | 3GB or 4GB std / 16GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 204-pin SO-DIMM sockets | | | | | | | | | | |
| SATA DVD±RW Ultrabay Enhanced SATA disk(s) | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high <i>Some: One disk, 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ (APS)</i> <i>Some: Two same disks, 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, APS</i> <i>Some: Two disks, 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high and 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, APS</i> <i>All: removable, upgradable, supports three disks max, Shock Mounted Hard Drive</i> | | | | | | | | | | |
| Widescreen display | <i>Some: 17.0" (433.0mm) WXGA+ (1440x900) color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 300:1 contrast ratio, 45% color gamut</i> <i>Some: 17.0" (433.0mm) WUXGA (1920x1200) color, anti-glare, RGB LED backlight, 280 nits, 16:10 aspect ratio, 600:1 contrast ratio, 100% color gamut</i> | | | | | | | | | | |
| Color calibration | None | | | | | | | | | | |
| Camera | <i>Some: camera on top of screen, 2.0-megapixel, fixed focus</i> | | | | | | | | | | |
| Discrete graphics | <i>Some: NVIDIA® Quadro® FX2800M, PCI Express® x16, 1GB memory</i> <i>Some: NVIDIA Quadro FX3800M, PCI Express x16, 1GB memory</i> supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort or dual-link DVI-D) @60Hz; 2048x1536 (VGA) @85Hz</i> | | | | | | | | | | |
| 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 | None | | | | | | | | | | |
| ThinkLight™ | Two LEDs illuminate the keyboard to improve visibility in low-light conditions | | | | | | | | | | |
| Dimensions ³ | <i>9-cell 17W" (WxDxH): 16.1" x 12.2" x 1.60-1.63"; 410mm x 310mm x 40.6-41.4mm</i> | | | | | | | | | | |
| Weight ² | <i>9-cell: starting at 8.97 lb (4.07kg)</i> | | | | | | | | | | |
| Case material | <i>Top: magnesium alloy;</i> <i>Bottom: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic</i> | | | | | | | | | | |
| Battery - type | Lithium Ion 9-cell | | | | | | | | | | |
| Battery - life ¹⁰ | <i>9-cell: up to 2.0 hr</i> | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | |
| ExpressCard/34 | One ExpressCard/34 | | | | | | | | | | |
| ExpressCard/54 | [54] One ExpressCard/34 or ExpressCard/54 | | | | | | | | | | |
| Compact Flash | None | | | | | | | | | | |
| Smart Card Read | None | | | | | | | | | | |
| Multicard Reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | | | | | | | | | | |
| Ports | One USB 3.0, Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, 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) | | | | | | | | | | |
| PCIe Mini Card | One PCI Express Half Mini Card slot | | | | | | | | | | |
| Intel 6300 ²⁸ | 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Ultimate-N 6300, 3x3 | | | | | | | | | | |
| Modem | 56K V.92 ⁶ modem | | | | | | | | | | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / 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, TCG 1.2-compliant | | | | | | | | | | |
| Fingerprint reader | UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, 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 | | | | | | | | | | |
| | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) | | | | | | | | | | |
| | ISV software certifications | | | | | | | | | | |
| | Supports ThinkVantage® technologies | | | | | | | | | | |
| | ThinkPad W700 Mini Dock 2.0 Provides desktop expansion and cable mgmt for W700 and W701 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 or 230 watt AC adpтр | | | | | | | | | | |
| | 170-watt or 230-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 3-year LOR ²⁴ 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 February 23, 2010
 < US model withdrawn effective August 2010



Lenovo® ThinkPad W701ds



Lenovo ThinkPad W701ds



Lenovo ThinkPad W701ds



ThinkPad 17W Business Topload Case
43R9117



ThinkPad 230W AC Adapter
55Y9333

ThinkPad® W701ds 2500 (TopSeller) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Memory (MHz) | Primary display | Secondary display | Camera | Discrete graphics | Disk(s) SATA GB ⁸ rpm | Color RAID | Power calib/ Adapter (watt) | Intel vPro | Preload | Avail date |
|------------|-----------|--------------|-----------------|-------------------|--------|-------------------|----------------------------------|------------|-----------------------------|------------|-------------|------------|
| 2500-2XU | i7-820QM | 4GBx2 1333 | 17" WUXGA | 10.6" WXGA | | FX3800M | 128G SSD + 320G 5400 | None | Yes | 230W | vPro Pro 64 | Mar 10 |
| 2500-3CU | i7-820QM | 2GBx2 1066 | 17" WUXGA | 10.6" WXGA | 2.0M | FX3800M | 500G 7200 | None | Yes | 230W | vPro Pro 64 | Mar 10 |

- **ds = dual screen**
- **17" widescreen ThinkPad workstation with two RAID-capable disks**
- **Select models include integrated color calibration and digitizer on palm rest**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|---|--|--|--|--|
| Positioning Processor | <i>Mobile workstation; three spindles</i> Intel® Core™ i7 processor i7-820QM with quad-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology; 1.73GHz, 8MB cache | | | | | | | Preloaded operating system²⁰ - Genuine Windows [®] 7 Professional 64 | | | | |
| Memory | 4GB or 8GB std / 16GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, four 204-pin SO-DIMM sockets | | | | | | | Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery[™] • Access Connections[™] • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD[®] (DVD±RW) • Corel Burn.Now[™] Lenovo Edition (DVD±RW) | | | | |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high <i>Some:</i> One disk, 500GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System [™] (APS) <i>Some:</i> Two disks, 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high and 320GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, APS <i>All:</i> removable, upgradable, supports three disks max, Shock Mounted Hard Drive | | | | | | | | | | | |
| Displays | <i>Primary:</i> 17.0" (433.0mm) WUXGA (1920x1200) color , anti-glare, RGB LED backlight , 280 nits, 16:10 aspect ratio, 600:1 contrast ratio, 100% color gamut; <i>Secondary:</i> 10.6" (268.7mm) 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 | | | | | | | ISV software certifications | | | | |
| Color calibration Camera | huey [™] PRO Colorimeter by X-Rite [®] color calibration sensor in palm rest <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | Supports ThinkVantage [®] technologies | | | | |
| Discrete graphics | NVIDIA® Quadro® FX3800M , PCI Express [®] x16, 1GB memory, supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort or dual-link DVI-D) @ 60Hz; 2048x1536 (VGA) @ 85Hz | | | | | | | ThinkPad W700 Mini Dock 2.0 Provides desktop expansion and cable mgmt for W700 and W701 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 or 230 watt AC adptr | | | | |
| 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 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 | <i>9-cell 17W" (WxDxH):</i> 16.1" x 12.2" x 2.1"; 410mm x 310mm x 52.2mm <i>9-cell:</i> starting at 11.43 lb (5.23kg) <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 2.0 hr | | | | | | | | | | | |
| Chipset ExpressCard/34 ExpressCard/54 Compact Flash Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One ExpressCard/34 None [CF] One Type I slot None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One USB 3.0, Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, 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) | | | | | | | 230-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT [™] Gold rating ENERGY STAR [®] 5.0-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 | | | | |
| PCIe Mini Card Intel 6300 ²⁸ Modem Bluetooth™ Ethernet Intel AMT Audio support | One PCI Express Half Mini Card slot 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino [®] Ultimate-N 6300, 3x3 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack | | | | | | | ThinkPlus [™] . ²² 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 | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | ThinkPlus 5-year P&L P/U Depot 41C9180 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | | |
| Limited warranty ¹² 3-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | |

See footnotes for important warranty information
 US models announced February 23, 2010

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 (NIC3D-1) April 2010

ThinkPad® W701ds 2541 (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory (MHz) | Primary display | Secondary display | Camera | Disk(s) SATA GB ⁸ rpm | RAID | Card slot | Power Adapter (watt) | Intel vPro | Workhorse (W) Global (G) Avail date |
|------------|-----------|----------------------|--------------|-----------------|-------------------|------------|----------------------------------|------|-----------|----------------------|------------|-------------------------------------|
| 2541-4JU | i7-920XM | 2.00 | 3.20 | 4GBx1 1333 | 17" WUXGA | 10.6" WXGA | 2.0M 320G 7200 x 2 | 0 | Exp 54 | 230W | | Pro 64 W Mar 10 |
| 2541-5AU | i7-820QM | 1.73 | 3.06 | 2GBx2 1066 | 17" WUXGA | 10.6" WXGA | 2.0M 500G 7200 | | Smart | 230W | vPro | Pro 64 W G Mar 10 |

- **ds = dual screen**
- **17" widescreen ThinkPad workstation with two RAID-capable disks**
- **Select models include integrated color calibration and digitizer on palm rest**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|---|
| Positioning Processor | <i>Mobile workstation; three spindles</i> Intel® Core™ i7 processor i7-820QM or i7-920XM with quad-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology; 8MB cache | | | | | | | | | | Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 |
| Memory | 4GB std / 16GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, four 204-pin SO-DIMM sockets | | | | | | | | | | Preloaded applications ¹⁴ (only some listed) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high <i>Some:</i> One disk, 500GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ (APS) <i>Some:</i> Two same disks, 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, APS <i>All:</i> removable, upgradable, supports three disks max, Shock Mounted Hard Drive | | | | | | | | | | <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software • ThinkVantage Toolbox • Adobe® Reader® • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) |
| Displays | <i>Primary:</i> 17.0" (433.0mm) WUXGA (1920x1200) color , anti-glare, RGB LED backlight , 280 nits, 16:10 aspect ratio, 600:1 contrast ratio, 100% color gamut; <i>Secondary:</i> 10.6" (268.7mm) 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 | | | | | | | | | | ISV software certifications |
| Color calibration Camera | huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | Supports ThinkVantage® technologies |
| Discrete graphics | NVIDIA® Quadro® FX2800M , PCI Express® x16, 1GB memory, supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort or dual-link DVI-D) @ 60Hz; 2048x1536 (VGA) @ 85Hz | | | | | | | | | | ThinkPad W700 Mini Dock 2.0 Provides desktop expansion and cable mgmt for W700 and W701 Series |
| 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 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 | | | | | | | | | | 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 or 230 watt AC adptr |
| Dimensions ³ Weight ² Case material | <i>9-cell 17W" (WxDxH):</i> 16.1" x 12.2" x 2.1"; 410mm x 310mm x 52.2mm <i>9-cell:</i> starting at 11.43 lb (5.23kg) <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 2.0 hr | | | | | | | | | | |
| Chipset ExpressCard/34 ExpressCard/54 Compact Flash Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One ExpressCard/34 <i>Some:</i> [/54] One ExpressCard/34 or ExpressCard/54 None <i>Some:</i> Smart Card Reader 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One USB 3.0, Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, 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) | | | | | | | | | | 230-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card Intel 6300 ²⁸ Modem Bluetooth™ Ethernet | One PCI Express Half Mini Card slot 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Ultimate-N 6300, 3x3 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator <i>Non-vPro model:</i> Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 <i>vPro model:</i> Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | ThinkPlus™, 22 3-year LOR 9x5 NBD 41C9176 ThinkPlus 4-year LOR 9x5 NBD 41C9177 ThinkPlus 5-year LOR 9x5 NBD 41C9179 |
| Intel AMT Audio support | Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack | | | | | | | | | | ThinkPlus 4-year P&L P/U Depot 41C9178 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | ThinkPlus 5-year P&L P/U Depot 41C9180 |
| Limited warranty ¹² | 3-year - depot repair service / service upgrades ²² available | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |

See footnotes for important warranty information
US models announced February 23, 2010

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ThinkPad® W701ds 2542 (Onsite) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory (MHz) | Primary display | Secondary display | Camera | Disk(s) SATA GB ⁸ rpm | RAID | Card slot | Power Adapter (watt) | Intel vPro | Workhorse (W) Global (G) Avail date |
|------------|-----------|----------------------|--------------|-----------------|-------------------|------------|----------------------------------|------|-----------|----------------------|------------|-------------------------------------|
| 2542-5AU | i7-820QM | 1.73 | 3.06 | 2GBx2 1066 | 17" WUXGA | 10.6" WXGA | 2.0M 500G 7200 x 1 | No | Smart | 230W | vPro | Pro 64 W G P Mar 10 |

- **ds = dual screen**
- **17" widescreen ThinkPad workstation with two RAID-capable disks**
- **Select models include integrated color calibration and digitizer on palm rest**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|---|
| Positioning Processor | <i>Mobile workstation; three spindles</i> Intel® Core™ i7 processor i7-820QM with quad-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology; 8MB cache | | | | | | | | | | Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 |
| Memory | 4GB std / 16GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 204-pin SO-DIMM sockets | | | | | | | | | | Preloaded applications ¹⁴ (only some listed) |
| SATA DVD±RW Ultrabay Enhanced SATA disk | DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high One disk, 500GB ⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports three disks max, Shock Mounted Hard Drive Active Protection System™ (APS) | | | | | | | | | | <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • Fingerprint Software • ThinkVantage Toolbox • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) |
| Displays | <i>Primary:</i> 17.0" (433.0mm) WUXGA (1920x1200) color , anti-glare, RGB LED backlight , 280 nits, 16:10 aspect ratio, 600:1 contrast ratio, 100% color gamut; <i>Secondary:</i> 10.6" (268.7mm) 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 | | | | | | | | | | ISV software certifications |
| Color calibration Camera | huey™PRO Colorimeter by X-Rite® color calibration sensor in palm rest Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | Supports ThinkVantage® technologies |
| Discrete graphics | NVIDIA® Quadro® FX2800M , PCI Express® x16, 1GB memory, supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DisplayPort or dual-link DVI-D) @60Hz; 2048x1536 (VGA) @85Hz | | | | | | | | | | ThinkPad W700 Mini Dock 2.0 Provides desktop expansion and cable mgmt for W700 and W701 Series Features: |
| 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 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 | | | | | | | | | | <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 or 230 watt AC adptry |
| Dimensions ³ Weight ² Case material | <i>9-cell 17W" (WxDxH):</i> 16.1" x 12.2" x 2.1"; 410mm x 310mm x 52.2mm <i>9-cell:</i> starting at 11.43 lb (5.23kg) <i>Top:</i> magnesium alloy; <i>Bottom:</i> Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | <ul style="list-style-type: none"> • Four USB 2.0 ports • eSATA port • Gigabit ethernet port • Microphone in and headphone out • S/PDIF (RCA coaxial digital out) • Requires 170 or 230 watt AC adptry |
| Battery - type Battery - life ¹⁰ | Lithium Ion 9-cell <i>9-cell:</i> up to 2.0 hr | | | | | | | | | | |
| Chipset ExpressCard/34 ExpressCard/54 Compact Flash Smart Card read Multicard reader Ports | Mobile Intel QM57 Express Chipset One ExpressCard/34 None None Smart Card Reader 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One USB 3.0, Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, 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) | | | | | | | | | | 230-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card Intel 6300 ²⁸ Modem Bluetooth™ Ethernet Intel AMT Audio support | One PCI Express Half Mini Card slot 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Ultimate-N 6300, 3x3 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack | | | | | | | | | | <ul style="list-style-type: none"> • ThinkPlus™.22 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 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| 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 | | | | | | | | | | |

See footnotes for important warranty information
US model announced February 23, 2010

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Memory

| | | |
|--|---------|--------------|
| 1GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3706 | ann 06/23/09 |
| 1GB PC3-8500 DDR3 L-H SODIMM (25Pack) | 57Y4385 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3707 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 L-H SODIMM (25Pack) | 57Y4386 | ann 06/23/09 |
| 4GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3708 | ann 06/23/09 |
| 1GB PC3-10600 DDR3 L-H SODIMM | 55Y3709 | ann 03/02/10 |
| 1GB PC3-10600 DDR3 L-H SODIMM (25Pack) | 57Y4415 | ann 03/02/10 |
| 2GB PC3-10600 DDR3 L-H SODIMM | 55Y3710 | ann 03/02/10 |
| 2GB PC3-10600 DDR3 L-H SODIMM (25Pack) | 57Y4416 | ann 03/02/10 |
| 4GB PC3-10600 DDR3 L-H SODIMM | 55Y3711 | ann 03/02/10 |

Ultrabay Slim 9.5mm

| | | |
|---|---------|--------------|
| Serial ATA Hard Drive Bay Adapter III ⁴⁸ | 43N3412 | ann 06/23/09 |
|---|---------|--------------|

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

Ultrabay Enhanced 12.7mm

| | | |
|--|---------|--------------|
| Blu-ray Reader / DVD Burner Ultrabay Enh | 43N3295 | ann 01/07/10 |
|--|---------|--------------|

Storage and removable storage

| | | |
|--|---------|--------------|
| 160GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 41N5737 | ann 10/16/07 |
| 250GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43R8152 | ann 01/15/08 |
| 250GB Disk FDE SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3410 | ann 01/20/09 |
| 320GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43N3403 | ann 08/05/08 |
| 320GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3411 | ann 01/20/09 |
| 500GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3423 | ann 01/07/10 |

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter III 43N3412 in the Ultrabay

| | | |
|--|---------|--------------|
| 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) | 43N3406 | ann 08/26/08 |
| 256GB FDE SSD SATA 3Gb/s 1.8"(2.5" cover) | 43N3417 | ann 06/23/09 |
| ThinkPad 160GB Intel X25-M SSD ⁴¹ | 43N3435 | ann 06/22/10 |

| | | |
|---|---------|--------------|
| USB 2.0 Portable 320GB Hard Disk | 45K1689 | ann 03/17/09 |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | ann 05/26/09 |
| USB 2.0 Portable Secure 160GB Hard Disk | 43R2018 | ann 11/18/08 |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | ann 11/18/08 |
| eSATA/USB 2.0 Secure 500GB Hard Drive | 57Y4400 | ann 01/07/10 |
| USB 2.0 Portable DVD Burner | 43N3264 | ann 01/05/10 |

ThinkPad Expansion

| | | |
|--|---------|--------------|
| Lenovo® Essential Notebook Stand | 45J9292 | ann 05/12/09 |
| USB Port Replicator with Digital Video | 45K1610 | ann 07/28/09 |
| ThinkPad W700 Mini Dock 2.0 | 57Y4345 | ann 09/29/09 |

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 |
| Ultraslim Wireless Keyboard and Mouse ⁵² | 57Y4700 | ann 09/15/09 |
| ⁵² Wireless via 2.4GHz technology using a micro-size USB receiver. | | |
| ThinkPad USB Keyboard with TrackPoint | 55Y9003 | ann 08/18/09 |
| Lenovo® USB Fingerprint Keyboard | 73P4730 | ann 02/22/05 |
| Lenovo USB Smartcard Keyboard | 51J0155 | ann 03/24/09 |

Mouse

| | | |
|--|---------|--------------|
| Lenovo Optical Mouse (USB) | 06P4069 | ann 05/21/03 |
| Lenovo Laser Mouse (USB) | 41U3074 | ann 01/23/07 |
| ThinkPad USB Laser Mouse | 57Y4635 | ann 12/15/09 |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | ann 08/27/02 |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | ann 06/04/02 |
| ThinkPad Bluetooth Laser Mouse | 41U5008 | ann 01/22/08 |

Security

| | | |
|---|---------|--------------|
| Kensington® MicroSaver® Cable Lock | 73P2582 | ann 12/29/03 |
| Kensington Twin Head Cable Lock | 45K1620 | ann 09/30/08 |
| Lenovo Security Cable Lock | 57Y4303 | ann 08/24/10 |
| USB Gemplus GemPC Smart Card Reader | 41N3040 | ann 02/21/06 |
| ExpressCard Gemplus Smart Card Reader ⁵⁷ | 41N3043 | ann 06/27/06 |

⁵⁷ Only compatible with the models having 54mm Express card slot.

Multimedia

| | | |
|----------------------------|---------|--------------|
| ThinkPad In-Ear Headphones | 57Y4488 | ann 01/07/10 |
|----------------------------|---------|--------------|

Batteries

| | | |
|--------------------------------|---------|--------------|
| ThinkPad Battery 37++ (9-cell) | 45J7914 | ann 08/12/08 |
| ThinkPad 230W AC Adapter | 55Y9333 | ann 02/23/10 |

More information at www.lenovo.com/alldaycomputing

Carrying Cases

Up to 17.0" widescreen models:

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

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

Monitors

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

Monitor Accessories⁴⁶

| | | |
|---|---------|--------------|
| Lenovo USB-to-DVI Monitor Adapter | 45K5296 | ann 05/12/09 |
| Lenovo DisplayPort to VGA Monitor Cable | 57Y4393 | ann 08/04/09 |
| 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 MicroSaver Cable Lock | 73P2582 | ann 12/29/03 |
| Kensington Twin Head Cable Lock | 45K1620 | ann 09/30/08 |
| Lenovo Security Cable Lock | 57Y4303 | ann 08/24/10 |
| Lenovo Easy Reach Monitor Stand | 55Y9258 | ann 09/22/09 |

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on ThinkPad accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/notebookaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories
 Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad®



Lenovo® ThinkPad X100e



Lenovo ThinkPad X100e



Lenovo ThinkPad X100e



Lenovo ThinkPad X100e with 3-cell battery



Lenovo ThinkPad X100e



Lenovo ThinkPad X100e family

ThinkPad® X100e (3508) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Proc- essor | GHz | Memory | Wide- screen display | CCFL or LED | Camera | Integrated graphics | Disk SATA GB ⁹ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Top color | Blue- tooth | Preload | Avail date |
|------------|----------------|------|--------|----------------------------|-------------------|--------|------------------------|--|-----------------------------|---------------------------|--------------------|--------------|----------------|-----------|---------------|
| 3508-28U | MV-40 | 1.60 | 1GB | 11.6" HD | LED | 0.3M | HD 3200 | 160GB 5400 | 11b/g/n | WWAN upg | | black | | Home P 32 | Jan 10 |
| 3508-29U | MV-40 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | WWAN upg | | black | | Pro 32 | Jan 10 |
| 3508-2AU | MV-40 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | Gobi 2000 | AT&T ²³ | black | | Pro 32 | Jan 10 |
| 3508-9BU | L335 | 1.60 | 1GB | 11.6" HD | LED | 0.3M | HD 3200 | 160GB 5400 | 11b/g/n | WWAN upg | | black | | Home P 32 | Mar 10 |
| 3508-9CU | L335 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | WWAN upg | | black | | Pro 32 | Mar 10 |
| 3508-9DU | L335 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | WWAN upg | | red | | Pro 32 | Mar 10 |
| 3508-9EU | L335 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | Gobi 2000 | | black | Blue | Pro 32 | Mar 10 |
| 3508-9TU | L335 | 1.60 | 1GB | 11.6" HD | LED | 0.3M | HD 3200 | 160GB 5400 | 11b/g/n | Gobi 2000 | AT&T | black | | Home P 32 | Apr 10 |
| 3508-A9U | MV-40 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | WWAN upg | | black | Blue | Home P 32 | Jul 10 |
| 3508-AAU | L335 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | Gobi 2000 | selectable | black | | Pro 32 | Jul 10 |
| 3508-AHU | L335 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 160GB 5400 | 11a/b/g/n | WWAN upg | | black | Blue | Home P 32 | Jul 10 |
| 3508-AKU | L335 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | WWAN upg | | black | | Home P 32 | Sep 10 |
| 3508-ALU | MV-40 | 1.60 | 1GB | 11.6" HD | LED | 0.3M | HD 3200 | 160GB 5400 | 11b/g/n | Gobi 2000 | selectable | black | Blue | Home P 32 | Sep 10 |

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

| | | |
|--|--|---|
| Positioning Processor | Entry ultraportable for excellent usability and reliability; one spindle AMD® Athlon™ Neo Processor for Ultrathin Notebooks MV-40 with single-core, virtualization technology, integrated DDR2 memory controller, and 512KB L2 cache or AMD Athlon Neo X2 Processor for Ultrathin Notebooks L335 with dual-core, virtualization technology, integrated DDR2 memory controller, and 512KB L2 cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Home Premium 32 - Some: Genuine Windows 7 Professional 32 |
| 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) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch |
| SATA DVD±RW SATA disk | None (use optional USB-based optical drive) 160GB⁸ (5400 rpm) or 250GB (5400 rpm) / SATA 3.0Gb/s, 9.5mm high, Active Protection System™, upgradable | |
| Widescreen display Camera | 11.6" (295mm) HD (1366x768) TFT color , anti-glare, LED backlight , 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Camera on top of screen, 0.3-megapixel, fixed focus, low light sensitive | |
| Integrated graphics | ATI™ Radeon™ HD 3200 graphics , in M780G, external analog monitor support via VGA DB-15 connector; <i>Maximum external resolution:</i> 2048x1536@60Hz | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | Full-size, 6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass Two-button touch pad, supports multi-touch function None | |
| Dimensions ³ Weight ² Case | <i>6-cell:</i> 11.1" x 8.2" x 0.6-1.2"; 282mm x 209mm x 16-30mm <i>6-cell:</i> from 3.3 lb (1.5kg) <i>Color:</i> black or red; <i>Material:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell <i>6-cell:</i> up to 5 hr | Supports ThinkVantage® technologies |
| Chipset | AMD M780G Chipset, SB710 south bridge | |
| Multicard reader ExpressCard/54 Ports | 4-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital) None Three USB 2.0 (one powered), external monitor (VGA DB-15), ethernet (RJ-45) | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card 11b/g/n 11a/b/g/n | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® chipset, 1x2 <i>Some:</i> 11a/b/g/n wireless, ThinkPad 11a/b/g/n, PCIe Half Mini Card, Broadcom® chipset, 2x2 | ThinkPlus™.22 1-year LOR ²⁴ 9x5 NBD 45K5968 |
| WWAN upg Gobi™ 2000 | <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS | ThinkPlus 2-year LOR 9x5 NBD 45K5969 |
| Carrier | <i>Some:</i> AT&T®, contract required with service provider <i>Some:</i> User selectable at first boot, AT&T, Verizon®, or Sprint®, contract required with service provider | ThinkPlus 3-year LOR 9x5 NBD 45K5970 |
| Modem | None | ThinkPlus 4-year LOR 9x5 NBD 45K5973 |
| Bluetooth™ | <i>Some:</i> Bluetooth 2.1 wireless | ThinkPlus 2-year P&L P/U Depot 45K5971 |
| Ethernet | Realtek RT8111DL Gigabit Network Connection, PHY, PCIe x1 | ThinkPlus 3-year P&L P/U Depot 45K5972 |
| Intel AMT | None | ThinkPlus 4-year P&L P/U Depot 45K5974 |
| Audio support | High Definition (HD) Audio, Conexant CX20582-11Z codec / stereo speakers, 1.5 watt x 2 / combo audio/mic jack | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole None None | |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information

¹³ US models announced September 21, 2010;
previous models on January 5, March 30, April 6, July 6, or July 27, 2010

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| Type-model | Processor | GHz | Memory | Wide-screen display | Camera | Integrated graphics | Disk SATA GB ⁹ rpm | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Top color | Battery cells | Bluetooth | Workhorse (W) Global (G) Avail date |
|------------|-----------|------|--------|---------------------|--------|---------------------|-------------------------------|-----------------------|---------------------|---------|-----------|---------------|-----------|-------------------------------------|
| 2876-2JU | MV-40 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 160GB 5400 | 11b/g/n | WWAN upg | None | black | 6 | Blue | Pro 32 G Jan 10 |
| 2876-2FU | MV-40 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | WWAN upg | None | black | 6 | Blue | Pro 32 G Jan 10 |
| 2876-35U | MV-40 | 1.60 | 3GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | Gobi 2000 | None | black | 6 | Blue | Pro 32 Jan 10 |
| 2876-33U | MV-40 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | WiMAX | WWAN upg | None | black | 6 | Blue | Pro 32 Mar 10 |
| 2876-34U | MV-40 | 1.60 | 4GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | WiMAX | WWAN upg | None | black | 6 | Blue | Pro 32 Mar 10 |
| 2876-6RU | MV-40 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | WWAN upg | None | black | 6 high | Blue | Pro 32 G Mar 10 |
| 2876-72U | L625 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | WWAN upg | None | black | 6 | Blue | Pro 32 G Mar 10 |
| 2876-73U | L625 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | Gobi 2000 | None | black | 6 | Blue | Pro 32 Mar 10 |
| 2876-74U | L625 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | Gobi 2000 | None | red | 6 | Blue | Pro 32 Mar 10 |
| 2876-76U | L625 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | WWAN upg | None | black | 6 high | Blue | Pro 32 Mar 10 |
| 2876-9XU | L335 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 160GB 5400 | 11b/g/n | WWAN upg | None | black | 6 | Blue | Pro 32 G May 10 |
| 2876-9YU | L335 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11b/g/n | Gobi 2000 | None | black | 6 | Blue | Pro 32 May 10 |
| 2876-AHU | L335 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11a/b/g/n | WWAN upg | None | black | 6 high | Blue | Pro 32 Jul 10 |
| 2876-AJU | L625 | 1.60 | 2GB | 11.6" HD | 0.3M | HD 3200 | 250GB 5400 | 11a/b/g/n | WWAN upg | None | black | 6 high | Blue | Pro 32 Jul 10 |

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

| | | |
|---|---|--|
| Positioning Processor | Entry ultraportable for excellent usability and reliability; one spindle AMD® Athlon™ Neo Processor for Ultrathin Notebooks MV-40 with single-core, virtualization technology, integrated DDR2 memory controller, and 512KB L2 cache or AMD Athlon Neo X2 Processor for Ultrathin Notebooks L335 with dual-core, virtualization technology, integrated DDR2 memory controller, and 512KB L2 cache or AMD Turion™ Neo X2 Processor for Ultrathin Notebooks L625 with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB L2 cache | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Windows Live™ Toolbar • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch |
| Memory | 2GB, 3GB, 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 | |
| SATA DVD±RW SATA disk | None (use optional USB-based optical drive) 160GB⁸ (5400 rpm) or 250GB (5400 rpm) / SATA 3.0Gb/s, 9.5mm high, Active Protection System™, upgradable | |
| Widescreen display Camera | 11.6" (295mm) HD (1366x768) TFT color , anti-glare, LED backlight , 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Camera on top of screen, 0.3-megapixel, fixed focus, low light sensitive | |
| Integrated graphics | ATI™ Radeon™ HD 3200 graphics , in M780G, external analog monitor support via VGA DB-15 connector; <i>Maximum external resolution:</i> 2048x1536 @60Hz | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | Full-size, 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass Two-button touch pad, supports multi-touch function None | |
| Dimensions ³ Weight ² Case | <i>6-cell:</i> 11.1" x 8.2" x 0.6-1.2"; 282mm x 209mm x 16-30mm <i>6-cell:</i> from 3.3 lb (1.5kg) <i>Color:</i> black or red; <i>Material:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell or 6-cell high capacity <i>6-cell:</i> up to 5.1 hr; <i>6-cell high:</i> up to 5.2 hr | Supports ThinkVantage® technologies |
| Chipset | AMD M780G Chipset, SB710 south bridge | |
| Multicard reader ExpressCard/54 Ports | 4-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital) None Three USB 2.0 (one powered), external monitor (VGA DB-15), ethernet (RJ-45) | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| PCIe Mini Card 11b/g/n 11a/b/g/n | Two PCI Express Mini Card slots <i>Some:</i> 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® chipset, 1x2 <i>Some:</i> 11a/b/g/n wireless, ThinkPad 11a/b/g/n, PCIe Half Mini Card, Broadcom® chipset, 2x2 | ThinkPlus™, 22 1-year LOR ²⁴ 9x5 NBD 45K5968 |
| WiMAX | <i>Some:</i> 11a/b/g/n and WiMAX wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N + WiMAX 6250, 2x2 AGN + 1x2 WiMAX | ThinkPlus 2-year LOR 9x5 NBD 45K5969 |
| WWAN upg Gobi™ 2000 | <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | ThinkPlus 3-year LOR 9x5 NBD 45K5970 |
| Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | None None <i>Some:</i> Bluetooth 2.1 wireless Realtek RT8111DL Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, Conexant CX20582-11Z codec / stereo speakers, 1.5 watt x 2 / combo audio/mic jack | ThinkPlus 4-year LOR 9x5 NBD 45K5973 |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole None None | ThinkPlus 2-year P&L P/U Depot 45K5971 |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | ThinkPlus 3-year P&L P/U Depot 45K5972 |
| | | ThinkPlus 4-year P&L P/U Depot 45K5974 |
| | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty |

See footnotes for important warranty information

US models announced July 27, 2010; previous models on January 5, March 2, March 30, or May 4, 2010

ThinkPad® X100e (3508) - Education (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Proc- essor | GHz | Memory | Wide- screen display | CCFL or LED | Camera | Integrated graphics | Disk SATA GB ⁵ rpm | SATA optical | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Bat- tery Carrier cells | Workhorse (W) Gbl (G) Educ | Avail date |
|------------|----------------|------|--------|----------------------------|-------------------|--------|------------------------|-------------------------------------|-----------------|-----------------------------|---------------------------|----------------------------------|----------------------------------|---------------|
| 3508-2GU | MV-40 | 1.60 | 2GB | 11.6" HD | LED | 0.3M | HD 3200 | 250G 5400 | None | 11b/g/n | WWAN upg | None | 6 Pro 32 Edu | Jan 10 |

- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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>Entry ultraportable for excellent usability and reliability; one spindle</i> AMD® Athlon™ Neo Processor for Ultrathin Notebooks MV-40 with single-core, virtualization technology, integrated DDR2 memory controller, and 512KB L2 cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 | | | |
| 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 (only some listed) • Education software - VitalSource Library College Edition - Adobe® Instructor Resource Cntr - Adobe Digital School Collection - Photoshop Elements (and CD) - Premiere Elements (and DVD) - Acrobat 8 Professional - Contribute 4 • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Adobe Reader® • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate | | | |
| SATA DVD±RW SATA disk | None (use optional USB-based optical drive) 250GB⁸ (5400 rpm) / SATA 3.0Gb/s, 9.5mm high, Active Protection System™, upgradable | | | | | | | | | | | | | |
| Widescreen display Camera | 11.6" (295mm) HD (1366x768) TFT color , anti-glare, LED backlight , 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Camera on top of screen, 0.3-megapixel, fixed focus, low light sensitive | | | | | | | | | | | | | |
| Integrated graphics | ATI™ Radeon™ HD 3200 graphics , in M780G, external analog monitor support via VGA DB-15 connector; <i>Maximum external resolution:</i> 2048x1536@60Hz | | | | | | | | | | | | | |
| Keyboard TrackPoint® Touch pad ThinkLight™ | Full-size, 6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass Two-button touch pad, supports multi-touch function None | | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case | <i>6-cell:</i> 11.1" x 8.2" x 0.6-1.2"; 282mm x 209mm x 16-30mm <i>6-cell:</i> from 3.3 lb (1.5kg) <i>Color:</i> black; <i>Material:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | |
| Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell <i>6-cell:</i> up to 5 hr | | | | | | | | | | | | | |
| Chipset | AMD M780G Chipset, SB710 south bridge | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Multicard reader ExpressCard/54 Ports | 4-in-1 reader (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital) None Three USB 2.0 (one powered), external monitor (VGA DB-15), ethernet (RJ-45) | | | | | | | | | | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | |
| PCIe Mini Card 11b/g/n WWAN upg Gobi™ 2000 Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® chipset, 1x2 Wireless WAN upgradable None None None None Realtek RT8111DL Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, Conexant CX20582-11Z codec / stereo speakers, 1.5 watt x 2 / combo audio/mic jack | | | | | | | | | | 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 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 | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole None None | | | | | | | | | | Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty | | | |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | | | | | | | | | | | | | |
| 1GB PC2-5300 DDR2 SODIMM 2GB PC2-5300 DDR2 SODIMM Other accessories on O-X100-E sheet | 40Y7734 40Y7735 | | | ThinkPad Battery 17 (3-cell) ThinkPad Battery 17+ (6-cell) | | | 57Y4558 57Y4559 | | | | | | | |
| | | | | | | | | | | Other accessories at lenovo.com/accessories | | | | |

See footnotes for important warranty information
US model announced January 5, 2010

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(MNK1-3) January 2010

Memory

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

Storage and removable storage

| | | | |
|---|---------|-----|----------|
| USB 2.0 Portable 320GB Hard Disk | 45K1689 | ann | 03/17/09 |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | ann | 05/26/09 |
| USB 2.0 Portable Secure 160GB Hard Disk | 43R2018 | ann | 11/18/08 |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | ann | 11/18/08 |
| eSATA/USB 2.0 Secure 500GB Hard Drive ⁵³ | 57Y4400 | ann | 01/07/10 |
| USB 2.0 Portable DVD Burner | 43N3264 | ann | 01/05/10 |

⁵³ USB-only attach.

Wireless WAN (Mini PCI Express)

Only WWAN upgradable models:

| | | | |
|--|---------|-----|----------|
| ThinkPad AT&T® Gobi 2000 Broadband Opt | 78Y1398 | ann | 01/07/10 |
| ThinkPad Gobi 2000 Broadband Option | 78Y1399 | ann | 01/07/10 |

ThinkPad Expansion

| | | | |
|----------------------------------|---------|-----|----------|
| Lenovo® Essential Notebook Stand | 45J9292 | ann | 05/12/09 |
|----------------------------------|---------|-----|----------|

⁵⁶ USB Port Replicator with Digital Video 45K1610 is not supported by ThinkPad X100e due to the system's CPU capabilities.

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 |
| Ultraslim Wireless Keyboard and Mouse ⁵² | 57Y4700 | ann | 09/15/09 |

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

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

Mouse

| | | | |
|---|---------|-----|----------|
| Lenovo Optical Mouse (USB) | 06P4069 | ann | 05/21/03 |
| Lenovo Laser Mouse (USB) | 41U3074 | ann | 01/23/07 |
| ThinkPad USB Laser Mouse | 57Y4635 | ann | 12/15/09 |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | ann | 08/27/02 |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | ann | 06/04/02 |
| ThinkPad Bluetooth Laser Mouse | 41U5008 | ann | 01/22/08 |
| Lenovo Wireless Laser Mouse - Black ⁵² | 45K1696 | ann | 11/25/08 |
| Lenovo Wireless Laser Mouse - Red/Black ⁵² | 51J0198 | ann | 11/25/08 |

Security

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

Multimedia

| | | | |
|----------------------------|---------|-----|----------|
| ThinkPad In-Ear Headphones | 57Y4488 | ann | 01/07/10 |
|----------------------------|---------|-----|----------|

Modem

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

Batteries

| | | | |
|---|---------|-----|----------|
| ThinkPad Battery 17 (3-cell) | 57Y4558 | ann | 01/05/10 |
| ThinkPad Battery 17+ (6-cell) | 57Y4559 | ann | 01/05/10 |
| ThinkPad External Battery Charger ⁴⁴ | 40Y7625 | ann | 09/20/05 |

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

More information at www.lenovo.com/alldaycomputing

| | |
|-----------------------------------|---------|
| ThinkPad 65W AC Adapter | 40Y7696 |
| ThinkPad 90W AC Adapter | 40Y7659 |
| Lenovo Power Hub | 57Y4600 |
| 90W Ultraslim AC/DC Combo Adapter | 41R4493 |

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

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

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

More information at www.lenovopowertips.com

Carrying Cases

| | | | |
|--------------------------|---------|-----|----------|
| ThinkPad 11W Case Sleeve | 57Y4286 | ann | 01/05/10 |
| ThinkPad 11W Sling Case | 57Y4287 | ann | 01/05/10 |

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

Monitors

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

Monitor Accessories⁴⁶

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

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/notebookaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad®



Lenovo® ThinkPad X201
(TrackPoint model)



Lenovo ThinkPad X201 with
ThinkPad Battery 47++ (9-cell)
43R9255



Lenovo ThinkPad X201
(UltraNav model)



Lenovo ThinkPad X201
(UltraNav model)



ThinkPad X200 UltraBase
43R8781



ThinkPad 65W AC Adapter
40Y7696

ThinkPad® X201 (3249) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁵ rpm | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Carrier | Intel vPro Preload | Avail date |
|------------|-----------|----------------------|--------|---------------------|--------|-------------------------------|----------------------|-------------------------|--------------------------|---------------------|-----------------------|--------------------|------------|
| 3249-2EU | i5-540M | 2.53 3.06 | 2GB | 12.1" WXGA | 2.0M | 320G 7200 | DVD±RW | UltraBase | Intel 6200 ²⁸ | WWAN upg | | vPro Pro 32 | Mar 10 |
| 3249-2FU | i5-540M | 2.53 3.06 | 2GB | 12.1" WXGA | 2.0M | 320G 7200 | DVD±RW | UltraBase | Intel 6200 | WWAN upg | | vPro Pro 32 | Mar 10 |
| 3249-2GU | i5-540M | 2.53 3.06 | 4GB | 12.1" WXGA | 2.0M | 320G 7200 | DVD±RW | UltraBase | Intel 6200 | Gobi 2000 | Verizon ¹⁶ | vPro Pro 32 | Mar 10 |
| 3249-2HU | i5-520M | 2.40 2.93 | 4GB | 12.1" WXGA | 2.0M | 320G 7200 | DVD±RW | UltraBase | Intel 6200 | WWAN upg | | vPro Pro 32 | Mar 10 |
| 3249-2TU | i5-540M | 2.53 3.06 | 4GB | 12.1" WXGA | 2.0M | 320G 7200 | DVD±RW | UltraBase | WiMAX | WWAN upg | | vPro Pro 64 | Mar 10 |
| 3249-2UJ | i5-540M | 2.53 3.06 | 4GB | 12.1" WXGA | 2.0M | 320G 7200 | DVD±RW | UltraBase | Intel 6200 | Gobi 2000 | AT&T ²³ | vPro Pro 64 | Mar 10 |
| 3249-2VU | i5-540M | 2.53 3.06 | 4GB | 12.1" WXGA | 2.0M | 320G 7200 | DVD±RW | UltraBase | Intel 6200 | WWAN upg | | vPro Pro 64 | Mar 10 |
| 3249-C2U | i5-520M | 2.40 2.93 | 2GB | 12.1" WXGA | 2.0M | 160G 7200 | | | Intel 6200 | WWAN upg | | vPro Pro 64 | Apr 10 |
| 3249-C3U | i5-520M | 2.40 2.93 | 2GB | 12.1" WXGA | 2.0M | 320G 7200 | | | Intel 6200 | WWAN upg | | vPro Pro 64 | Apr 10 |
| 3249-EPU | i5-560M | 2.66 3.20 | 2GB | 12.1" WXGA | 2.0M | 320G 7200 | DVD±RW | UltraBase | Intel 6200 | WWAN upg | | vPro Pro 64 | Sep 10 |
| 3249-ERU | i5-560M | 2.66 3.20 | 2GB | 12.1" WXGA | | 160G 7200 | | | Intel 6200 | WWAN upg | | vPro Pro 64 | Sep 10 |

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

| | | |
|---|---|--|
| Positioning Processor | An ultraportable for the executive on the move; one spindle Intel® Core™ i5 processor i5-520M, i5-540M, or i5-560M with dual-core. DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 1 socket; 1 socket available | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Microsoft Office 2010 preloaded; purchase product key to activate |
| SATA DVD±RW Ultrabay Slim SATA disk | <i>Some:</i> DVD burner, SATA 1.5Gb/s, removable from X200 UltraBase Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781) 160GB⁸ (7200 rpm), 250GB⁸ (5400 rpm), or 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std X200 UltraBase | |
| Widescreen display Camera | 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 250:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP) @60Hz; 2048x1536(VGA) @75Hz | Supports ThinkVantage® technologies ThinkPad X200 UltraBase™ |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 – Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB FDE 7200 rpm 43N3411 |
| Dimensions ³ | <i>without UltraBase; 4/6-cell:</i> 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 20.7-35.3mm <i>without UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 233.8mm x 20.7-35.3mm <i>4-cell:</i> from 2.89 lb (1.31kg); <i>6-cell:</i> from 3.18 lb (1.44kg); <i>9-cell:</i> from 3.52 lb (1.60kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy | 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 |
| Weight ² Case Battery - type Battery - life ¹⁰ Chipset | Lithium Ion 6-cell <i>4-cell:</i> up to 3.4 hr; <i>6-cell:</i> up to 6.7 hr; <i>9-cell:</i> up to 11.3 hr Mobile Intel QM57 Express Chipset | |
| Media slice Multicard reader ExpressCard/54 Ports | <i>Some:</i> ThinkPad X200 UltraBase media slice (see right side) 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | |
| PCIe Mini Card Intel 6200 ²⁸ WiMAX WWAN upg Gobi™ 2000 Carrier Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots <i>Some:</i> 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> 11a/b/g/n and WiMAX wireless, PCIe Half Mini Card, Intel Centrino Advanced-N + WiMAX 6250, 2x2 AGN + 1x2 WiMAX <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider <i>Some:</i> AT&T® or Verizon®, contract required with service provider 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speaker, 1 watt x 2 / 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, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 models announced September 28, 2010; previous models on February 23, March 2, or April 20, 2010

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ThinkPad® X201 (3626) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base (GHz) | turbo (GHz) | Memory | Wide-screen display | Camera | Disk SATA GB ⁹ | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Finger print reader | Bat-tery Intel vPro | Workhorse (W) Global (G) Avail date |
|-------------------------------------|--|----------------|-------------|--------|---------------------|--------|---------------------------|----------------------|--------------------------|-----------------------|---------------------|--|---------------------|-------------------------------------|
| ⌘ 3626-R3U | i5-540M | 2.53 | 3.06 | 2GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 ²⁸ | upg | Fing Blue | 6 vPro | Pro 32 | Mar 10 |
| 3626-11U | i5-540M | 2.53 | 3.06 | 2GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 | upg | Fing Blue | 6 vPro | Pro 32 | G Mar 10 |
| 3626-F2U | i5-540M | 2.53 | 3.06 | 2GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 | upg | Blue | 6 vPro | Pro 32 W | Mar 10 |
| 3626-F3U | i5-540M | 2.53 | 3.06 | 4GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 | Gobi | Fing Blue | 6 vPro | Pro 64 W | Mar 10 |
| 3626-F4U | i5-540M | 2.53 | 3.06 | 2GB | 12.1" WXGA | | 320G 5400 | DVD±RW UltraB | Intel 6200 | upg | Fing Blue | 9 vPro | Pro 32 W | Mar 10 |
| 3626-F5U | i5-540M | 2.53 | 3.06 | 4GB | 12.1" WXGA | 2.0M | 320G 7200 | DVD±RW UltraB | Intel 6200 | upg | Fing Blue | 6 vPro | Pro 64 W | Mar 10 |
| 3626-F6U | i5-540M | 2.53 | 3.06 | 3GB | 12.1" WXGA | 2.0M | 128G SSD | | Intel 6200 | upg | Fing Blue | 6 vPro | Pro 32 W | Mar 10 |
| 3626-F7U | i5-540M | 2.53 | 3.06 | 4GB | 12.1" WXGA | | 320G 7200 | | Intel 6300 ²⁸ | upg | Fing Blue | 9 vPro | Pro 32 W G | Mar 10 |
| 3626-F8U | i5-540M | 2.53 | 3.06 | 2GB | 12.1" WXGA | | 250G 5400 | | Intel 6200 | | | 4 vPro | Pro 32 W G | Mar 10 |
| 3626-F9U | i5-540M | 2.53 | 3.06 | 2GB | 12.1" WXGA | | 320G 7200 | DVD±RW UltraB | Intel 6200 | upg | Fing Blue | 6 vPro | Pro 32 W G | Mar 10 |
| 3626-FAU | i5-540M | 2.53 | 3.06 | 2GB | 12.1" WXGA | 2.0M | 320G 7200 | | Intel 6200 | upg | Fing Blue | 9 vPro | Pro 32 W G | Mar 10 |
| 3626-FBU | i5-520M | 2.40 | 2.93 | 2GB | 12.1" WXGA | 2.0M | 250G 5400 | | Intel 6200 | upg | Fing Blue | 6 vPro | Pro 32 W G | Mar 10 |
| 3626-HUU | i5-520M | 2.40 | 2.93 | 2GB | 12.1" WXGA | 2.0M | 320G 7200 | | Intel 6300 | upg | Fing Blue | 6 vPro | Pro 32 W G | Apr 10 |
| 3626-HVU | i5-520M | 2.40 | 2.93 | 2GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 | upg | | 6 vPro | Pro 32 W G | Apr 10 |
| 3626-12U | i5-520M | 2.40 | 2.93 | 2GB | 12.1" WXGA | | 160G 7200 | | Intel 6200 | Gobi | Fing Blue | 6 vPro | Pro 64 W | Apr 10 |
| 3626-13U | i5-520M | 2.40 | 2.93 | 2GB | 12.1" WXGA | 2.0M | 160G 7200 | DVD±RW UltraB | Intel 6200 | upg | Fing Blue | 6 vPro | Pro 64 W | Apr 10 |
| 3626-14U | i5-520M | 2.40 | 2.93 | 2GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 | upg | Fing Blue | 9 vPro | Pro 64 W G | Apr 10 |
| Ⓢ 3626-PVU | i5-560M | 2.66 | 3.20 | 2GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 | upg | Fing Blue | 6 vPro | Pro 32 | Sep 10 |
| Positioning Processor | An ultraportable for the executive on the move; one spindle Intel® Core™ i5 processor i5-520M, i5-540M, or i5-560M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | | Preloaded operating system ²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 | | |
| Memory | 2GB, 3GB, 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 1 socket; 1 socket available | | | | | | | | | | | Preloaded applications ¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Microsoft Office 2010 preloaded; purchase product key to activate | | |
| SATA DVD±RW Ultrabay Slim SATA disk | Some: DVD burner, SATA 1.5Gb/s, removable from X200 UltraBase Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781) Some: 128GB Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high Some: 160GB (7200 rpm), 250GB (5400 rpm), or 320GB (5400 rpm or 7200 rpm) / SATA 3.0Gb/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, LED backlight , 200 nits, 16:10 aspect ratio, 250:1 contrast ratio | | | | | | | | | | | | | |
| Camera | Some: camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; Maximum external resolution: 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz | | | | | | | | | | | Supports ThinkVantage® technologies | | |
| 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 | | | | | | | | | | | | | |
| Touchpad | UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch | | | | | | | | | | | | | |
| ThinkLight™ | Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | |
| Dimensions ³ | without UltraBase; 4/6-cell: 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 20.7-35.3mm without UltraBase; 9-cell: 11.6" x 9.2" x 0.8-1.4"; 295mm x 233.8mm x 20.7-35.3mm 4-cell: from 2.89 lb (1.31kg); 6-cell: from 3.18 lb (1.44kg); 9-cell: from 3.52 lb (1.60kg) | | | | | | | | | | | | | |
| Weight ² | Color: black; Material: magnesium alloy | | | | | | | | | | | | | |
| Case | Lithium Ion 4-cell, 6-cell, or 9-cell | | | | | | | | | | | | | |
| Battery - type | 4-cell: up to 3.4 hr; 6-cell: up to 6.7 hr; 9-cell: up to 11.3 hr | | | | | | | | | | | | | |
| Battery - life ¹⁰ | | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | | | |
| Media slice | Some: ThinkPad X200 UltraBase media slice (see right side) | | | | | | | | | | | | | |
| Multicard reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | | | | | | | | | | | | | |
| ExpressCard/54 | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | |
| Ports | Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | | | | | | | | | | | | | |
| PCIe Mini Card | Two PCI Express Mini Card slots | | | | | | | | | | | | | |
| Intel 6200 ²⁸ | Some: 11a/b/g/n wireless ⁴ , PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 | | | | | | | | | | | | | |
| Intel 6300 ²⁸ | Some: 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino Ultimate-N 6300, 3x3 | | | | | | | | | | | | | |
| WWAN upg | Some: Wireless WAN upgradable | | | | | | | | | | | | | |
| Gobi™ 2000 | Some: Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | | | | | | | | | | | | | |
| Carrier Modem | F3U/12U models: Verizon®, contract required with service provider | | | | | | | | | | | | | |
| Bluetooth™ | 56K V.92 ⁶ modem | | | | | | | | | | | | | |
| Ethernet | Some: Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | | | | |
| Intel AMT | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | | | |
| Audio support | Intel Active Management Technology (iAMT) | | | | | | | | | | | | | |
| Security | High Definition (HD) Audio, Conexant 20585 codec / stereo speaker, 1 watt x 2 / volume up, down, mute buttons / digital microphone, microphone input jack, headphone jack | | | | | | | | | | | | | |
| Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | |
| Fingerprint reader | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | |
| Limited warranty ¹² | Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 September 28, 2010; previous models on February 23, April 6, or April 20, 2010

⌘ US model withdrawn effective June 2010

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(MOC3-3) December 2010

ThinkPad® X201 (3680) - Onsite (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Proc- essor | Max Base turbo (GHz)(GHz) | Memory | Wide- screen display | Camera | Disk SATA GB ³ rpm | Optical in UltraBase | ThinkPad X200 Mini Card 802.11 | PCIe Mini Card WWAN | Bat- tery Intel vPro | Workhorse (W) Global (G) Preload GMP (P) | Avail date |
|------------|----------------|---------------------------------|--------|----------------------------|--------|-------------------------------------|----------------------------|---|---------------------------|-------------------------------|--|---------------|
| 3680-F7U | i5-540M | 2.53 3.06 | 4GB | 12.1" WXGA | | 320G 7200 | | Intel 6300 ²⁸ | upg | Yes 9 | vPro Pro 32 | W G P Mar 10 |
| 3680-F8U | i5-540M | 2.53 3.06 | 2GB | 12.1" WXGA | | 250G 5400 | | Intel 6200 ²⁸ | | 4 | vPro Pro 32 | W G P Mar 10 |
| 3680-F9U | i5-540M | 2.53 3.06 | 2GB | 12.1" WXGA | | 320G 7200 | DVD±RW UltraB | Intel 6200 | upg | Yes 6 | vPro Pro 32 | W G P Mar 10 |
| 3680-FAU | i5-540M | 2.53 3.06 | 2GB | 12.1" WXGA | 2.0M | 320G 7200 | | Intel 6200 | upg | Yes 9 | vPro Pro 32 | W G P Mar 10 |
| 3680-FBU | i5-520M | 2.40 2.93 | 2GB | 12.1" WXGA | 2.0M | 250G 5400 | | Intel 6200 | upg | Yes 6 | vPro Pro 32 | W G P Mar 10 |
| 3680-11U | i5-540M | 2.53 3.06 | 2GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 | upg | Yes 6 | vPro Pro 32 | G P Mar 10 |
| 3680-PKU | i5-520M | 2.40 2.93 | 2GB | 12.1" WXGA | 2.0M | 320G 7200 | | Intel 6300 | upg | Yes 6 | vPro Pro 32 | W G P Apr 10 |
| 3680-PLU | i5-520M | 2.40 2.93 | 2GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 | upg | 6 | vPro Pro 32 | W G P Apr 10 |
| 3680-14U | i5-520M | 2.40 2.93 | 2GB | 12.1" WXGA | | 320G 7200 | | Intel 6200 | upg | Yes 9 | vPro Pro 64 | W G P Apr 10 |

- These models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | |
|---|--|--|
| Positioning Processor | An ultraportable for the executive on the move; one spindle Intel® Core™ i5 processor i5-520M or i5-540M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 1 socket; 1 socket available | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • Microsoft Office 2010 preloaded; purchase product key to activate |
| SATA DVD±RW Ultrabay Slim SATA disk | <i>Some:</i> DVD burner, SATA 1.5Gb/s, removable from X200 UltraBase Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781) 250GB⁸ (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std X200 UltraBase | |
| Widescreen display Camera | 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 250:1 contrast ratio <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | Supports ThinkVantage® technologies |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 – Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | 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 | <i>without UltraBase; 4/6-cell:</i> 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 20.7-35.3mm <i>without UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 233.8mm x 20.7-35.3mm <i>4-cell:</i> from 2.89 lb (1.31kg); <i>6-cell:</i> from 3.18 lb (1.44kg); <i>9-cell:</i> from 3.52 lb (1.60kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy | |
| Weight ² Case Battery - type Battery - life ¹⁰ | Lithium Ion 4-cell, 6-cell, or 9-cell <i>4-cell:</i> up to 3.4 hr; <i>6-cell:</i> up to 6.7 hr; <i>9-cell:</i> up to 11.3 hr | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 |
| Chipset | Mobile Intel QM57 Express Chipset | |
| Media slice Multicard reader ExpressCard/54 Ports | <i>Some:</i> ThinkPad X200 UltraBase media slice (see right side) 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | |
| PCIe Mini Card Intel 6200 ²⁸ Intel 6300 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots <i>Some:</i> 11a/b/g/n wireless ⁴ , PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino Ultimate-N 6300, 3x3 <i>Some:</i> Wireless WAN upgradable 56K V.92 ⁵ modem <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speaker, 1 watt x 2 / 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, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, 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 | |

See footnotes for important warranty information

US model announced April 20, 2010; previous models on February 23 or April 6, 2010

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ThinkPad® X201 (3626) - Education (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Proc- essor | Max Base turbo (GHz)(GHz) | Memory | Wide- screen display | Camera | Disk SATA GB ⁹ rpm | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Blue/ Fing | Intel vPro | Preload | Avail date |
|------------|----------------|---------------------------------|--------|----------------------------|--------|-------------------------------------|----------------------------|-------------------------------|-----------------------------|---------------------------|---------------|---------------|---------|---------------|
| 3626-N2U | i5-540M | 2.53 3.06 | 2GB | 12.1" WXGA | 2.0M | 250G 5400 | Optional | Optional | Intel 6200 ²⁸ | WWAN upg | Yes | vPro | Pro 32 | Mar 10 |

- **This model has a depot repair service 3-year limited warranty**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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™ i5 processor i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 | | | |
| 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 1 socket; 1 socket available | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Education software - Microsoft Office OneNote® 2007 (and CD) • Rescue and Recovery™ • Microsoft Office 2010 preloaded; purchase product key to activate | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | Option for <i>ThinkPad X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 250GB⁹ (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i> | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Widescreen display Camera | 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 250:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: - DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 - Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 | | | |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution: 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz</i> | | | | | | | | | | 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 | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | | | | |
| Dimensions ³ | <i>without UltraBase; 4/6-cell:</i> 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 20.7-35.3mm <i>without UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 233.8mm x 20.7-35.3mm <i>4-cell:</i> from 2.89 lb (1.31kg); <i>6-cell:</i> from 3.18 lb (1.44kg); <i>9-cell:</i> from 3.52 lb (1.60kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy | | | | | | | | | | | | | |
| Weight ² Case Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell <i>4-cell:</i> up to 3.4 hr; <i>6-cell:</i> up to 6.7 hr; <i>9-cell:</i> up to 11.3 hr | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | | | |
| Media slice Multicard reader ExpressCard/54 Ports | <i>Option: ThinkPad X200 UltraBase media slice</i> (see right side) 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | | | | | | | | | | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speaker, 1 watt x 2 / 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, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 - depot repair service / service upgrades ²² available | | | | | | | | | | | | | |

See footnotes for important warranty information
US model announced February 23, 2010

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ThinkPad® X201 (3680) - Education (Onsite) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Proc- essor | Max Base turbo (GHz)(GHz) | Memory | Wide- screen display | Camera | Disk SATA GB ⁹ rpm | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Blue/ Fing Intel vPro | Preload | Avail date |
|------------|----------------|---------------------------------|--------|----------------------------|--------|-------------------------------------|----------------------------|-------------------------------|-----------------------------|---------------------------|--------------------------------|-------------|---------------|
| 3680-N2U | i5-540M | 2.53 3.06 | 2GB | 12.1" WXGA | 2.0M | 250G 5400 | Optional | Optional | Intel 6200 ²⁸ | WWAN upg | Yes | vPro Pro 32 | Mar 10 |

- **This model has a limited onsite service²⁴ 3-year limited warranty**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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™ i5 processor i5-540M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32 |
| 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 1 socket; 1 socket available | | | | | | | | | | Preloaded applications ¹⁴ (only some listed) • Education software - Microsoft Office OneNote® 2007 (and CD) - Adobe Digital School Collection • Rescue and Recovery™ • Microsoft Office 2010 preloaded; purchase product key to activate |
| SATA DVD±RW Ultrabay Slim SATA disk | Option for <i>ThinkPad X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 250GB⁹ (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i> | | | | | | | | | | |
| Widescreen display Camera | 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 250:1 contrast ratio Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | Supports ThinkVantage® technologies ThinkPad X200 UltraBase™ |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution: 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz</i> | | | | | | | | | | • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: - DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 - Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | | | | | | | | | | |
| Dimensions ³ | <i>without UltraBase; 4/6-cell:</i> 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 20.7-35.3mm <i>without UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 233.8mm x 20.7-35.3mm <i>4-cell:</i> from 2.89 lb (1.31kg); <i>6-cell:</i> from 3.18 lb (1.44kg); <i>9-cell:</i> from 3.52 lb (1.60kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy | | | | | | | | | | |
| Weight ² Case Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell <i>4-cell:</i> up to 3.4 hr; <i>6-cell:</i> up to 6.7 hr; <i>9-cell:</i> up to 11.3 hr | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | 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>Option: ThinkPad X200 UltraBase media slice</i> (see right side) 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | | | | | | | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n wireless ⁴ , PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speaker, 1 watt x 2 / 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, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | | | | | | | | |

See footnotes for important warranty information
US model announced February 23, 2010

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(MOC3-6) December 2010

ThinkPad® X201i (3249) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | GHz | Memory | Wide-screen display | Camera | Disk SATA GB ⁵ rpm | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Intel vPro | Preload | Avail date |
|------------|-----------|------|--------|---------------------|--------|-------------------------------|----------------------|-------------------------|-----------------------|---------------------|------------|---------|------------|
| ⌘ 3249-J2U | i3-330M | 2.13 | 2GB | 12.1" WXGA | None | 250G 5400 | Optional | Optional | Intel 1000 | WWAN upg | No | Pro 32 | Mar 10 |
| ⌘ 3249-MCU | i3-330M | 2.13 | 2GB | 12.1" WXGA | None | 160G 7200 | Optional | Optional | Intel 1000 | WWAN upg | No | Pro 64 | Apr 10 |
| ⌘ 3249-MDU | i3-370M | 2.40 | 2GB | 12.1" WXGA | None | 160G 7200 | Optional | Optional | Intel 1000 | WWAN upg | No | Pro 64 | Jul 10 |

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

| | | |
|---|---|--|
| Positioning Processor | An ultraportable for the executive on the move; one spindle Intel® Core™ i3 processor i3-330M or i3-370M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| 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 1 socket; 1 socket available | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager |
| SATA DVD±RW Ultrabay Slim SATA disk | Option for <i>ThinkPad X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 160GB⁸ (7200 rpm) or 250GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i> | Supports ThinkVantage® technologies |
| Widescreen display Camera | 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 250:1 contrast ratio None | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 – Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution: 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz</i> | 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 |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch Illuminates the keyboard to improve visibility in low-light conditions | |
| Dimensions ³ | <i>without UltraBase; 4/6-cell:</i> 11.6" x 8.3" x 0.8-1.4"; 295mm x 210mm x 20.7-35.3mm <i>without UltraBase; 9-cell:</i> 11.6" x 9.2" x 0.8-1.4"; 295mm x 233.8mm x 20.7-35.3mm <i>4-cell:</i> from 2.89 lb (1.31kg); <i>6-cell:</i> from 3.18 lb (1.44kg); <i>9-cell:</i> from 3.52 lb (1.60kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy | |
| Weight ² Case Battery - type Battery - life ¹⁰ | Lithium Ion 6-cell <i>4-cell:</i> up to 3.4 hr; <i>6-cell:</i> up to 6.7 hr; <i>9-cell:</i> up to 11.3 hr | |
| Chipset | Mobile Intel QM57 Express Chipset | |
| Media slice Multicard reader ExpressCard/54 Ports | <i>Option: ThinkPad X200 UltraBase media slice</i> (see right side) 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | |
| PCIe Mini Card Intel 1000 WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11b/g/n wireless ⁴ , PCIe Mini Card, Intel Centrino® Wireless-N 1000, 1x2 Wireless WAN upgradable 56K V.92 ⁶ modem None Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1 None High Definition (HD) Audio, Conexant 20585 codec / stereo speaker, 1 watt x 2 / 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, TCG 1.2-compliant None | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | 1-year - depot repair service / service upgrades ²² available | |

See footnotes for important warranty information

⌘ US model announced July 6, 2010; previous models on February 23 or April 20, 2010

⌘ US models withdrawn effective July 31, 2010

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(MOC3i-1) December 2010

Memory

| | | |
|--|---------|--------------|
| 1GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3706 | ann 06/23/09 |
| 1GB PC3-8500 DDR3 L-H SODIMM (25-Pack) | 57Y4385 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3707 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 L-H SODIMM (25-Pack) | 57Y4386 | ann 06/23/09 |
| 4GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3708 | ann 06/23/09 |

Ultrabay Slim 9.5mm

Most Ultrabay Slim accessories supported in ThinkPad X200 UltraBase

| | | |
|---|---------|--------------|
| Serial ATA Hard Drive Bay Adapter III | 43N3412 | ann 06/23/09 |
| DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s | 43N3292 | ann 08/03/10 |
| DVD Burner Ultrabay Slim Drive II SATA 1.5G/s | 43N3229 | ann 06/23/09 |
| Ultrabay Slim Blu-ray Burner II (SATA) | 43N3230 | ann 06/23/09 |

Storage and removable storage

| | | |
|--|---------|--------------|
| 160GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 41N5737 | ann 10/16/07 |
| 250GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43R8152 | ann 01/15/08 |
| 250GB Disk FDE SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3410 | ann 01/20/09 |
| 320GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43N3403 | ann 08/05/08 |
| 320GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3411 | ann 01/20/09 |
| 500GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3423 | ann 01/07/10 |

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter III 43N3412 in X200 UltraBase (43R8781)

| | | |
|--|---------|--------------|
| 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) | 43N3406 | ann 08/26/08 |
| 256GB FDE SSD SATA 3Gb/s 1.8" (2.5" cover) | 43N3417 | ann 06/23/09 |
| ThinkPad 160GB Intel X25-M SSD ⁴¹ | 43N3435 | ann 06/22/10 |

| | | |
|---|---------|--------------|
| USB 2.0 Portable 320GB Hard Disk | 45K1689 | ann 03/17/09 |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | ann 05/26/09 |
| USB 2.0 Portable Secure 160GB Hard Disk | 43R2018 | ann 11/18/08 |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | ann 11/18/08 |
| eSATA/USB 2.0 Secure 500GB Hard Drive ⁵³ | 57Y4400 | ann 01/07/10 |

⁵³ USB-only attach.

Wireless WAN (Mini PCI Express)

Only X201 WWAN upgradable models:

| | | |
|---|---------|--------------|
| ThinkPad Gobi™ 2000 Broadband Option | 78Y1399 | ann 01/07/10 |
| ThinkPad AT&T® Gobi 2000 Broadband Option | 78Y1398 | ann 01/07/10 |

ThinkPad Expansion

| | | |
|--|---------|--------------|
| Lenovo® Essential Notebook Stand | 45J9292 | ann 05/12/09 |
| USB Port Replicator with Digital Video | 45K1610 | ann 07/28/09 |
| 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 |
| Ultralim Wireless Keyboard and Mouse ⁵² | 57Y4700 | ann 09/15/09 |

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

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

Mouse

| | | |
|--|---------|--------------|
| Lenovo Optical Mouse (USB) | 06P4069 | ann 05/21/03 |
| Lenovo Laser Mouse (USB) | 41U3074 | ann 01/23/07 |
| ThinkPad USB Laser Mouse | 57Y4635 | ann 12/15/09 |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | ann 08/27/02 |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | ann 06/04/02 |
| ThinkPad Bluetooth Laser Mouse | 41U5008 | ann 01/22/08 |

Security

| | | |
|--|---------|--------------|
| Kensington® MicroSaver® Cable Lock | 73P2582 | ann 12/29/03 |
| Kensington Twin Head Cable Lock | 45K1620 | ann 09/30/08 |
| Lenovo Security Cable Lock | 57Y4303 | ann 08/24/08 |
| X200s (WXGA+), X201s 12W Privacy Filter | 43R2470 | ann 08/05/08 |
| X200/X200s (WXGA), X201 12W Privacy Filter | 55Y9264 | ann 04/07/09 |
| USB Gemplus GemPC Smart Card Reader | 41N3040 | ann 02/21/06 |
| ExpressCard Gemplus Smart Card Reader | 41N3043 | ann 06/27/06 |

Multimedia

| | | |
|----------------------------|---------|--------------|
| ThinkPad In-Ear Headphones | 57Y4488 | ann 01/07/10 |
|----------------------------|---------|--------------|

Batteries

| | | |
|-----------------------------------|---------|--------------|
| ThinkPad Battery 47 (4-cell) | 43R9253 | ann 08/05/08 |
| ThinkPad Battery 47+ (6-cell) | 43R9254 | ann 08/05/08 |
| ThinkPad Battery 47+++ (9-cell) | 43R9255 | ann 08/05/08 |
| ThinkPad External Battery Charger | 40Y7625 | ann 09/20/05 |

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 |
| Lenovo Power Hub | 57Y4600 | ann 09/07/10 |
| 90W Ultralim AC/DC Combo Adapter | 41R4493 | ann 09/22/09 |

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

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

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

More information at www.lenovopowertips.com

Carrying Cases

Up to 12" widescreen models:

| | | |
|--------------------------|---------|--------------|
| ThinkPad 12W Case Sleeve | 51J0476 | ann 08/18/09 |
|--------------------------|---------|--------------|

Up to 13.3" widescreen models:

| | | |
|-----------------------------|---------|--------------|
| ThinkPad Ultraportable Case | 41U5062 | ann 05/13/08 |
|-----------------------------|---------|--------------|

Up to 15.4" widescreen models:

| | | |
|---------------------------------|---------|--------------|
| Lenovo Messenger Max | 41U5253 | ann 05/01/07 |
| Lenovo Performance Backpack | 41U5254 | ann 05/01/07 |
| ThinkPad Business Topload Case | 43R2476 | ann 05/13/08 |
| ThinkPad Business Backpack | 43R2482 | ann 05/13/08 |
| ThinkPad Deluxe Expander Case | 43R2478 | ann 05/13/08 |
| ThinkPad Executive Leather Case | 43R2480 | ann 05/13/08 |

More information at www.lenovo.com/support/cases
 Lenovo luxury cases at www.lenovoluxurycases.com

Monitors

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

Monitor Accessories⁴⁶

| | | |
|---|---------|--------------|
| Lenovo USB-to-DVI Monitor Adapter | 45K5296 | ann 05/12/09 |
| Lenovo DisplayPort to VGA Monitor Cable ⁵⁰ | 57Y4393 | ann 08/04/09 |
| DisplayPort to Single-link DVI-D Cable ⁵⁰ | 45J7915 | ann 08/05/08 |

⁵⁰ Can only be used via ThinkPad X200 UltraBase (43R8781)

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

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

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

Other accessories at www.lenovo.com/accessories
 Accessories Guide pdf at www.lenovo.com/accessoriesguide

ThinkPad®



Lenovo® ThinkPad X201 Tablet



Lenovo ThinkPad X201 Tablet



Lenovo ThinkPad X201 Tablet



Lenovo ThinkPad X201 Tablet



Lenovo ThinkPad X201 Tablet with
ThinkPad X200 Tablet Sleeve
43R9115



Lenovo ThinkPad X201 Tablet with
ThinkPad X200 Tablet Sleeve
43R9115

ThinkPad® X201 Tablet (2985) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Widescreen display | Camera (Mega-pixel) | Disk SATA GB ³ rpm | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Battery Intel vPro Preload | Avail date |
|------------|-----------|----------------------|-----------------|---------------------------|---------------------|-------------------------------|----------------------|--------------------------|-----------------------|----------------------------|----------------------------|------------|
| 2985-C2U | i7-640LM | 2.13 | 2.93 2GB | 12.1" WXGA <i>Entry</i> | | 250G 5400 | | Intel 6200 ²⁸ | upg | | 4 vPro Pro 32 | Mar 10 |
| 2985-C3U | i7-640LM | 2.13 | 2.93 2GB | 12.1" WXGA <i>Entry</i> | | 2.0 320G 7200 | DVD±RW | UltraB Intel 6200 | | | 8 vPro Pro 32 | Mar 10 |
| 2985-C4U | i7-640LM | 2.13 | 2.93 4GB | 12.1" WXGA <i>Entry</i> | | 2.0 320G 7200 | DVD±RW | UltraB Intel 6200 | | Gobi Verizon ¹⁶ | 8 vPro Pro 32 | Mar 10 |
| 2985-C5U | i7-640LM | 2.13 | 2.93 4GB | 12.1" WXGA <i>Outdoor</i> | | 2.0 320G 7200 | | Intel 6200 | upg | | 8 vPro Pro 32 | Mar 10 |
| 2985-C6U | i7-640LM | 2.13 | 2.93 2GB | 12.1" WXGA <i>Multi</i> | | 2.0 250G 5400 | | Intel 6200 | upg | | 8 vPro Pro 32 | Mar 10 |
| 2985-C7U | i7-640LM | 2.13 | 2.93 4GB | 12.1" WXGA <i>Multi</i> | | 2.0 320G 7200 | DVD±RW | UltraB Intel 6200 | upg | | 8 vPro Pro 32 | Mar 10 |
| 2985-EWU | i7-640LM | 2.13 | 2.93 4GB | 12.1" WXGA <i>Entry</i> | | 2.0 320G 7200 | DVD±RW | UltraB Intel 6200 | | Gobi Verizon | 8 vPro Pro 64 | Mar 10 |
| 2985-EXU | i7-640LM | 2.13 | 2.93 4GB | 12.1" WXGA <i>Entry</i> | | 2.0 320G 7200 | DVD±RW | UltraB Intel 6200 | | Gobi AT&T ²³ | 8 vPro Pro 64 | Mar 10 |
| 2985-EYU | i7-640LM | 2.13 | 2.93 4GB | 12.1" WXGA <i>Multi</i> | | 2.0 320G 7200 | DVD±RW | UltraB Intel 6200 | upg | | 8 vPro Pro 64 | Mar 10 |

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

| | | |
|---|---|---|
| Positioning Processor | <i>Convertible tablet ultraportable; one spindle</i> Intel® Core™ i7 processor i7-640LM with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 4MB cache | Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Professional 32 - <i>Some:</i> Genuine Windows 7 Professional 64 |
| 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 1 socket; 1 socket available | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software • ThinkVantage Toolbox • Lenovo SimpleTap (Multi-Touch models) • Adobe® Reader® • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | <i>Some:</i> DVD burner, SATA 1.5Gb/s, removable from <i>X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 250GB⁸ (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i> | |
| Widescreen display | <i>Entry:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless <i>Outdoor:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, PVA or IPS <i>MultiTouch:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, enhanced MultiTouch (touchscreen support pen & two-finger touch) <i>All:</i> WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in side base (right), 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, 2.0-megapixel, fixed focus | Supports ThinkVantage® technologies |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 – Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch None | |
| Dimensions ³ | <i>without UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm <i>without UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm <i>4-cell:</i> from 3.57 lb (1.62kg); <i>8-cell:</i> from 3.96 lb (1.8kg) | |
| Weight ² | <i>Color:</i> black; <i>Material:</i> magnesium alloy | |
| Case | Lithium Ion 4-cell or 8-cell | |
| Battery - type | <i>4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 7.9 hr | |
| Battery - life ¹⁰ | | |
| Chipset | Mobile Intel QM57 Express Chipset | |
| Media slice | <i>Some:</i> ThinkPad X200 UltraBase media slice (see right side) | |
| Multicard Reader ExpressCard/54 | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | |
| Ports | One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | |
| PCIe Mini Card | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | |
| Carrier Modem | <i>Some:</i> AT&T® or Verizon®, contract required with service provider 56K V.92 ⁵ modem | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | |
| Intel AMT | Intel Active Management Technology (iAMT) | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic input jack, headphone jack | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Fingerprint reader | UPEK Fingerprint reader (right base of display), used in tablet/notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty ¹² | 3-years/1-yr battery & digitizer pen - depot repair service / service upgrades²² available | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 models announced March 2, 2010; previous models on February 23, 2010

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(CML3-1) December 2010

ThinkPad® X201 Tablet (2985) - TopSeller (Windows 7) - April 2010

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Widescreen display | Camera (Mega-pixel) | Disk SATA GB ³ rpm | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Battery Intel vPro | Preload | Avail date |
|------------|-----------|----------------------|----------|---------------------------|---------------------|-------------------------------|----------------------|-------------------------|--------------------------|----------------------------|--------------------|---------|------------|
| 2985-F2U | i7-620LM | 2.00 | 2.80 2GB | 12.1" WXGA <i>Entry</i> | 2.0 | 160G 7200 | DVD±RW | UltraB | Intel 6200 ²⁸ | Gobi Verizon ¹⁶ | 8 vPro | Pro 64 | Apr 10 |
| 2985-F3U | i7-620LM | 2.00 | 2.80 2GB | 12.1" WXGA <i>Outdoor</i> | 2.0 | 160G 7200 | | | Intel 6200 | upg | 8 vPro | Pro 64 | Apr 10 |
| 2985-F4U | i7-620LM | 2.00 | 2.80 2GB | 12.1" WXGA <i>Multi</i> | 2.0 | 320G 7200 | DVD±RW | UltraB | Intel 6200 | upg | 8 vPro | Pro 64 | Apr 10 |

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

| | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|---|--|--|
| Positioning Processor | <i>Convertible tablet ultraportable; one spindle</i> Intel® Core™ i7 processor i7-620LM with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 4MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 64 | | |
| 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 1 socket; 1 socket available | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Norton™ Internet Security 2011 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Windows Live™ Toolbar • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch | | |
| SATA DVD±RW Ultrabay Slim SATA disk | <i>Some:</i> DVD burner, SATA 1.5Gb/s, removable from <i>X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 160GB⁹ (7200 rpm) or 320GB⁹ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i> | | | | | | | | | | | | |
| Widescreen display | <i>Entry:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless <i>Outdoor:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, PVA or IPS <i>MultiTouch:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, enhanced MultiTouch (touchscreen support pen & two-finger touch) <i>All:</i> WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in side base (right), 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, 2.0-megapixel, fixed focus | | | | | | | | | | Supports ThinkVantage® technologies | | |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz | | | | | | | | | | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 – Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch None | | | | | | | | | | | | |
| Dimensions ³ | <i>without UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm <i>without UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm <i>4-cell:</i> from 3.57 lb (1.62kg); <i>8-cell:</i> from 3.96 lb (1.8kg) | | | | | | | | | | | | |
| Weight ² | | | | | | | | | | | | | |
| Case | <i>Color:</i> black; <i>Material:</i> magnesium alloy | | | | | | | | | | | | |
| Battery - type | Lithium Ion 8-cell | | | | | | | | | | | | |
| Battery - life ¹⁰ | <i>4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 7.9 hr | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | | |
| Media slice | <i>Some:</i> ThinkPad X200 UltraBase media slice (see right side) | | | | | | | | | | | | |
| Multicard Reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | | | | | | | | | | | | |
| ExpressCard/54 | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | |
| Ports | Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | | | | | | | | | | | | |
| PCIe Mini Card | Two PCI Express Mini Card slots | | | | | | | | | | | | |
| Intel 6200 ²⁸ | 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 | | | | | | | | | | | | |
| WWAN upg | <i>Some:</i> Wireless WAN upgradable | | | | | | | | | | | | |
| Gobi™ 2000 | <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | | | | | | | | | | | | |
| Carrier | <i>Some:</i> Verizon®, contract required with service provider | | | | | | | | | | | | |
| Modem | 56K V.92 ⁶ modem | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | | | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic input jack, headphone jack | | | | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | |
| Fingerprint reader | UPEK Fingerprint reader (right base of display), used in tablet/notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | | |
| Limited warranty ¹² | 3-years/1-yr battery & digitizer pen - depot repair service / service upgrades²² available | | | | | | | | | | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 models announced April 20, 2010

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(CML3-8) December 2010

ThinkPad® X201 Tablet (2985) - TopSeller (Windows 7) - June 2010

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Widescreen display | Camera (Mega-pixel) | Disk SATA GB ³ rpm | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Battery Intel vPro Preload | Avail date |
|------------|-----------|----------------------|----------|---------------------------|---------------------|-------------------------------|----------------------|-------------------------|--------------------------|---------------------|----------------------------|------------|
| 2985-F7U | i5-520UM | 1.06 | 1.86 4GB | 12.1" WXGA <i>Multi</i> | 2.0M | 320G 7200 | DVD±RW | UltraB | Intel 6200 ²⁸ | WWAN upg | 8 vPro Pro 32 Jun 10 | |
| 2985-FAU | i5-520UM | 1.06 | 1.86 2GB | 12.1" WXGA <i>Entry</i> | 2.0M | 250G 5400 | | | Intel 6200 | WWAN upg | 4 vPro Pro 64 Jun 10 | |
| 2985-FBU | i5-520UM | 1.06 | 1.86 2GB | 12.1" WXGA <i>Outdoor</i> | 2.0M | 320G 7200 | | | Intel 6200 | WWAN upg | 8 vPro Pro 64 Jun 10 | |
| 2985-FCU | i5-520UM | 1.06 | 1.86 2GB | 12.1" WXGA <i>Multi</i> | 2.0M | 250G 5400 | | | Intel 6200 | WWAN upg | 8 vPro Pro 64 Jun 10 | |
| 2985-FSU | i5-560M | 2.66 | 3.20 2GB | 12.1" WXGA <i>Entry</i> | | 160G 7200 | | | Intel 6200 | WWAN upg | 4 vPro Pro 64 Sep 10 | |
| 2985-FYU | i5-560M | 2.66 | 3.20 2GB | 12.1" WXGA <i>Outdoor</i> | 2.0M | 160G 7200 | | | Intel 6200 | WWAN upg | 8 vPro Pro 64 Sep 10 | |

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

| | | | |
|--|---|--|--|
| Positioning Processor | <p><i>Convertible tablet ultraportable; one spindle</i></p> <p>Intel® Core™ i5 processor i5-520UM with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 800MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache or</p> <p>Intel Core i5 processor i5-560M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache</p> | | <p>Preloaded operating system²⁰</p> <ul style="list-style-type: none"> - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 <p>Preloaded applications¹⁴ (only some listed)</p> <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Lenovo SimpleTap (Multi-Touch models) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch |
| Memory | <p>2GB or 4GB std / 8GB max⁷ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-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> | | |
| SATA DVD±RW Ultrabay Slim SATA disk | <p><i>Some:</i> DVD burner, SATA 1.5Gb/s, removable from <i>X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 160GB⁸ (7200 rpm), 250GB (5400 rpm), or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i></p> | | |
| Widescreen display | <p><i>Entry:</i> 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless</p> <p><i>Outdoor:</i> 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, LED backlight, 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, PVA or IPS</p> <p><i>MultiTouch:</i> 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, LED backlight, 300 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, enhanced MultiTouch (touchscreen support pen & two-finger touch)</p> <p><i>All:</i> WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), 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)</p> | | |
| Camera | <p><i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus</p> | | |
| Integrated graphics | <p>Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz</p> | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | <p>Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch</p> <p>None</p> | | |
| Dimensions ³ | <p><i>without UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm</p> <p><i>without UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm</p> <p><i>4-cell:</i> from 3.57 lb (1.62kg); <i>8-cell:</i> from 3.96 lb (1.8kg)</p> | | |
| Weight ² | <p><i>Color:</i> black; <i>Material:</i> magnesium alloy</p> | | |
| Case Battery - type Battery - life ¹⁰ | <p>Lithium Ion 4-cell or 8-cell</p> <p><i>4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 7.9 hr</p> | | |
| Chipset | <p>Mobile Intel QM57 Express Chipset</p> | | |
| Media slice Multicard Reader ExpressCard/54 Ports | <p><i>Some:</i> ThinkPad X200 UltraBase media slice (see right side)</p> <p>5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC)</p> <p>One slot (ExpressCard/34, ExpressCard/54)</p> <p>Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)</p> | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support | <p>Two PCI Express Mini Card slots</p> <p>11a/b/g/n wireless, PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2</p> <p>Wireless WAN upgradable</p> <p>56K V.92⁶ modem</p> <p>Bluetooth 2.1 wireless, LED indicator</p> <p>Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1</p> <p>Intel Active Management Technology (iAMT)</p> <p>High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic input jack, headphone jack</p> | | |
| Security Security chip Fingerprint reader | <p>Power-on password, hard disk password, supervisor password, security keyhole</p> <p>Trusted Platform Module, TCG 1.2-compliant</p> <p>UPEK Fingerprint reader (right base of display), used in tablet/notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip</p> | | |
| Limited warranty ¹² | <p>3-years/1-yr battery & digitizer pen - depot repair service / service upgrades²² available</p> | | <p>Supports ThinkVantage® technologies</p> <p>ThinkPad X200 UltraBase™</p> <ul style="list-style-type: none"> • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: <ul style="list-style-type: none"> - DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 - Serial ATA Hard Drive Bay Adapter III 43N3412 • Disks supported (some): <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 <p>Other features:</p> <ul style="list-style-type: none"> • 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 <p>65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant ROHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p> |

See footnotes for important warranty information

® US models announced September 28, 2010; previous models on May 25, 2010

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ThinkPad® X201 Tablet (3093) - Windows 7

Personal Systems Reference (PSREF)

| Type-model | Proc-essor | Max Base turbo (GHz) | Max turbo (GHz) | Memory | Widescreen display | Camera | Disk SATA GB ⁵ | Optical in rpm | ThinkPad X200 UltraBase | PCIe Mini Card 802.11 | PCIe Mini Card WWAN | Blue/ Intel vPro | Pre-load | Workhorse (W) Gbl (G) Avail (P) date |
|------------|------------|----------------------|-----------------|--------|--------------------|--------|---------------------------|----------------|-------------------------|--------------------------|---------------------|------------------|-------------------|--------------------------------------|
| 3093-R5U | i7-620LM | 2.00 | 2.80 | 2GB | 12.1" WXGA Entry | | 160G | 5400 | | Intel 6200 ²⁸ | upg | vPro | Pro 32 | Mar 10 |
| 3093-R6U | i7-640LM | 2.13 | 2.93 | 4GB | 12.1" WXGA Outdoor | 2.0M | 320G | 7200 | | Intel 6200 | upg | Yes vPro | Pro 32 | Mar 10 |
| 3093-92U | i7-640LM | 2.13 | 2.93 | 2GB | 12.1" WXGA Entry | 2.0M | 320G | 7200 | DVD±RW | UltraB | Intel 6200 | upg | Yes vPro | Pro 32 W G Mar 10 |
| 3093-93U | i7-640LM | 2.13 | 2.93 | 2GB | 12.1" WXGA Entry | | 250G | 5400 | | Intel 6200 | upg | Yes vPro | Pro 32 W G Mar 10 | |
| 3093-94U | i7-620LM | 2.00 | 2.80 | 2GB | 12.1" WXGA Entry | | 250G | 5400 | | Intel 6200 | upg | vPro | Pro 32 W G Mar 10 | |
| 3093-95U | i7-640LM | 2.13 | 2.93 | 4GB | 12.1" WXGA Outdoor | 2.0M | 320G | 7200 | | Intel 6200 | upg | Yes vPro | Pro 32 W G Mar 10 | |
| 3093-96U | i7-640LM | 2.13 | 2.93 | 4GB | 12.1" WXGA Multi | 2.0M | 320G | 7200 | | Intel 6200 | upg | Yes vPro | Pro 32 W G Mar 10 | |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | Convertible tablet ultraportable; one spindle Intel® Core™ i7 processor i7-620LM or i7-640LM with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 4MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 | | | |
| 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 1 socket; 1 socket available | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Lenovo SimpleTap (Multi-Touch models) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | <i>Some:</i> DVD burner, SATA 1.5Gb/s, removable from X200 UltraBase Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781) 160GB⁸ (5400 rpm), 250GB (5400 rpm), or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std X200 UltraBase | | | | | | | | | | | | | |
| Widescreen display | <i>Entry:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless <i>Outdoor:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, PVA or IPS <i>MultiTouch:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, enhanced MultiTouch (touchscreen support pen & two-finger touch) <i>All:</i> WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in side base (right), 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, 2.0-megapixel, fixed focus | | | | | | | | | | Supports ThinkVantage® technologies | | | |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz | | | | | | | | | | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 – Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch 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 | <i>without UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm <i>without UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm <i>4-cell:</i> from 3.57 lb (1.62kg); <i>8-cell:</i> from 3.96 lb (1.8kg) | | | | | | | | | | | | | |
| Weight ² | | | | | | | | | | | | | | |
| Case | <i>Color:</i> black; <i>Material:</i> magnesium alloy | | | | | | | | | | | | | |
| Battery - type | Lithium Ion 8-cell | | | | | | | | | | | | | |
| Battery - life ¹⁰ | <i>4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 7.9 hr | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | | | |
| Media slice | <i>Some:</i> ThinkPad X200 UltraBase media slice (see right side) | | | | | | | | | | | | | |
| Multicard Reader ExpressCard/54 Ports | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | | | | | | | | | | | | | |
| PCIe Mini Card | Two PCI Express Mini Card slots | | | | | | | | | | | | | |
| Intel 6200 ²⁸ WWAN upg | 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable | | | | | | | | | | | | | |
| Modem | 56K V.92 ⁶ modem | | | | | | | | | | | | | |
| Bluetooth™ | <i>Some:</i> Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | | | | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic input jack, headphone jack | | | | | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | |
| Fingerprint reader | <i>Some:</i> UPEK Fingerprint reader (right base of display), used in tablet/notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 & digitizer pen - depot repair service / service upgrades²² available | | | | | | | | | | | | | |

See footnotes for important warranty information

US models announced February 23, 2010

⚠ US models withdrawn effective March 2010

© Lenovo (CML3-2) December 2010

ThinkPad® X201 Tablet (3093) - Windows 7 (February 2010)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Widescreen Memory display | Camera | Disk SATA GB ⁹ rpm | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card WWAN | Carrier | Bat-Blue/ tery Intel vPro | Workhorse (W) Gbl (G) Avail date |
|------------|-----------|----------------------|---------------------------|---------|-------------------------------|----------------------|-------------------------|---------------------|-----------------------|---------------------------|----------------------------------|
| 3093-21U | i7-620LM | 2.00 | 2.80 2GBx1 | Entry | 250G 5400 | | | WWAN upg | | 4 vPro | Pro 32 G Mar 10 |
| 3093-22U | i7-640LM | 2.13 | 2.93 2GBx2 | Outdoor | 320G 7200 | | | WWAN upg | Yes | 8 vPro | Pro 32 G Mar 10 |
| 3093-23U | i7-640LM | 2.13 | 2.93 2GBx2 | Multi | 2.0M 320G 7200 | | | WWAN upg | Yes | 8 vPro | Pro 32 G Mar 10 |
| 3093-24U | i7-640LM | 2.13 | 2.93 2GBx2 | Entry | 2.0M 320G 7200 | DVD±RW | UltraB | Gobi 2000 | Verizon ¹⁶ | Yes | 8 vPro Pro 32 W Mar 10 |
| 3093-25U | i7-640LM | 2.13 | 2.93 2GBx2 | Outdoor | 2.0M 320G 7200 | | | Gobi 2000 | Verizon | Yes | 8 vPro Pro 32 W Mar 10 |
| 3093-26U | i7-640LM | 2.13 | 2.93 2GB+1 | Multi | 2.0M 128G SSD | DVD±RW | UltraB | WWAN upg | | Yes | 8 vPro Pro 32 W Mar 10 |
| 3093-27U | i7-640LM | 2.13 | 2.93 2GBx1 | Entry | 2.0M 320G 7200 | DVD±RW | UltraB | WWAN upg | Yes | 8 vPro | Pro 32 W G Mar 10 |
| 3093-28U | i7-640LM | 2.13 | 2.93 2GBx1 | Entry | 250G 5400 | | | WWAN upg | Yes | 8 vPro | Pro 32 W G Mar 10 |
| 3093-42U | i7-620LM | 2.00 | 2.80 2GBx1 | Entry | 2.0M 160G 7200 | | | WWAN upg | Yes | 8 vPro | Pro 64 W G Apr 10 |
| 3093-3ZU | i7-620LM | 2.00 | 2.80 2GBx1 | Multi | 2.0M 160G 7200 | | | WWAN upg | Yes | 8 vPro | Pro 64 W G Apr 10 |

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

| | | |
|---|---|--|
| Positioning Processor | Convertible tablet ultraportable; one spindle Intel® Core™ i7 processor i7-620LM or i7-640LM with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 4MB cache | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 |
| Memory | 2GB, 3GB, or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Lenovo SimpleTap (Multi-Touch models) • Adobe® Reader® • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) |
| SATA DVD±RW Ultrabay Slim SATA disk | Some: DVD burner, SATA 1.5Gb/s, removable from X200 UltraBase Supports Ultrabay Slim devices in optional or standard X200 UltraBase (43R8781) Some: 128GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high Some: 160GB (7200 rpm), 250GB (5400 rpm), or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System™ All: removable, upgradable, Shock Mounted Hard Drive, supports second disk in opt or std X200 UltraBase | |
| Widescreen display | Entry: 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless Outdoor: 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, PVA or IPS MultiTouch: 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, enhanced MultiTouch (touchscreen support pen & two-finger touch) All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in side base (right), 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 | Some: camera on top of screen, 2.0-megapixel, fixed focus | Supports ThinkVantage® technologies |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; Maximum external resolution: 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 – Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch None | |
| Dimensions ³ | without UltraBase; 4-cell: 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm without UltraBase; 8-cell: 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm 4-cell: from 3.57 lb (1.62kg); 8-cell: from 3.96 lb (1.8kg) | |
| Weight ² | Color: black; Material: magnesium alloy | |
| Case | Lithium Ion 4-cell or 8-cell | |
| Battery - type | 4-cell: up to 3.5 hr; 8-cell: up to 7.9 hr | |
| Battery - life ¹⁰ | | |
| Chipset | Mobile Intel QM57 Express Chipset | |
| Media slice | Some: ThinkPad X200 UltraBase media slice (see right side) | |
| Multicard Reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | |
| ExpressCard/54 | One slot (ExpressCard/34, ExpressCard/54) | |
| Ports | Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | |
| PCIe Mini Card | Two PCI Express Mini Card slots Intel 6200 ²⁸ 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 WWAN upg Some: Wireless WAN upgradable Gobi™ 2000 Some: Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | |
| Carrier | Some: Verizon®, contract required with service provider | |
| Modem | 56K V.92 ⁶ modem | |
| Bluetooth™ | Some: Bluetooth 2.1 wireless, LED indicator | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | |
| Intel AMT | Intel Active Management Technology (iAMT) | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic input jack, headphone jack | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Fingerprint reader | Some: UPEK Fingerprint reader (right base of display), used in tablet/notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip | |
| Limited warranty ¹² | 3-years/1-yr battery & digitizer pen - depot repair service / service upgrades²² available | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 models announced April 20, 2010; previous models on February 23, 2010

US models withdrawn effective March 2010

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(CML3-3) December 2010

ThinkPad® X201 Tablet (3093) - Windows 7 (June 2010)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Widescreen Memory | Widescreen display | Camera | Disk SATA GB ³ | Optical in UltraBase | ThinkPad X200 UltraBase | PCle Mini Card WWAN | Battery Fing cells | Intel vPro | Workhorse (W) Gbl (G) Avail |
|------------|-----------|------------|-----------------|-------------------|--------------------|--------|---------------------------|----------------------|-------------------------|----------------------------|--------------------|------------|-----------------------------|
| 3093-45U | i5-520UM | 1.06 | 1.86 | 4GB | Multi | 2.0M | 320G 7200 | | | upg | Yes 8 | vPro | Pro 32 Jun 10 |
| 3093-46U | i5-520UM | 1.06 | 1.86 | 4GB | Outdoor | 2.0M | 320G 7200 | | | upg | Yes 8 | vPro | Pro 32 Jun 10 |
| 3093-47U | i5-520UM | 1.06 | 1.86 | 2GB | Entry | 2.0M | 320G 7200 | DVD±RW | UltraB | upg | Yes 8 | vPro | Pro 32 Jun 10 |
| 3093-48U | i5-520UM | 1.06 | 1.86 | 2GB | Entry | | 250G 5400 | | | upg | 8 | vPro | Pro 32 Jun 10 |
| 3093-4AU | i5-520UM | 1.06 | 1.86 | 2GB | Entry | | 250G 5400 | | | upg | Yes 8 | vPro | Pro 32 Jun 10 |
| 3093-4CU | i5-520UM | 1.06 | 1.86 | 2GB | Entry | | 160G 7200 | | | upg | 4 | vPro | Pro 64 G Jun 10 |
| 3093-4DU | i5-520UM | 1.06 | 1.86 | 2GB | Multi | 2.0M | 160G 7200 | | | upg | Yes 8 | vPro | Pro 64 G Jun 10 |
| 3093-4EU | i5-520UM | 1.06 | 1.86 | 2GB | Entry | 2.0M | 320G 7200 | DVD±RW | UltraB | Gobi Verizon ¹⁶ | Yes 8 | vPro | Pro 64 W Jun 10 |
| 3093-4FU | i5-520UM | 1.06 | 1.86 | 2GB | Outdoor | 2.0M | 320G 7200 | | | Gobi Verizon | Yes 8 | vPro | Pro 64 W Jun 10 |
| 3093-4GU | i5-520UM | 1.06 | 1.86 | 2GB | Outdoor | 2.0M | 160G 7200 | | | upg | Yes 8 | vPro | Pro 64 W G Jun 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | Convertible tablet ultraportable; one spindle Intel® Core™ i5 processor i5-520UM with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 800MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 | |
| 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 1 socket; 1 socket available | | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Lenovo SimpleTap (Multi-Touch models) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) | |
| SATA DVD±RW Ultrabay Slim SATA disk | <i>Some:</i> DVD burner, SATA 1.5Gb/s, removable from <i>X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 160GB⁹ (7200 rpm), 250GB (5400 rpm), or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i> | | | | | | | | | | | | |
| Widescreen display | <i>Entry:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless <i>Outdoor:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, PVA or IPS <i>MultiTouch:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 300 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, enhanced MultiTouch (touchscreen support pen & two-finger touch) <i>All:</i> WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in side base (right), 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, 2.0-megapixel, fixed focus | | | | | | | | | | | Supports ThinkVantage® technologies | |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz | | | | | | | | | | | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 – Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch None | | | | | | | | | | | | |
| Dimensions ³ | <i>without UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm <i>without UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm <i>4-cell:</i> from 3.57 lb (1.62kg); <i>8-cell:</i> from 3.96 lb (1.8kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy | | | | | | | | | | | | |
| Weight ² Case | | | | | | | | | | | | | |
| Battery - type | Lithium Ion 4-cell or 8-cell | | | | | | | | | | | | |
| Battery - life ¹⁰ | <i>4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 7.9 hr | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | | |
| Media slice | <i>Some:</i> ThinkPad X200 UltraBase media slice (see right side) | | | | | | | | | | | | |
| Multicard Reader ExpressCard/54 Ports | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | | | | | | | | | | | | |
| PCle Mini Card Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCle Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCle Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | | | | | | | | | | | | |
| Carrier Modem | <i>Some:</i> Verizon®, contract required with service provider 56K V.92 ⁶ modem | | | | | | | | | | | | |
| Bluetooth™ Ethernet Intel AMT | <i>Some:</i> Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCle x1 Intel Active Management Technology (iAMT) | | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic input jack, headphone jack | | | | | | | | | | | | |
| Security Security chip Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some:</i> UPEK Fingerprint reader (right base of display), used in tablet/notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | 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 | |
| Limited warranty ¹² | 3-years/1-yr battery & digitizer pen - depot repair service / service upgrades ²² available | | | | | | | | | | | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 models announced May 25, 2010

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(CML3-10) December 2010

ThinkPad® X201 Tablet (3093) - Windows 7 (October 2010)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Widescreen display | Camera | Disk SATA GB ⁹ | rpm | Optical in UltraBase | ThinkPad X200 UltraBase | PCIe Mini Card WWAN | Carrier | Blue/ Fing | Intel vPro | Preload | Avail date |
|------------|-----------|------------|-----------------|--------|--------------------|--------|---------------------------|------|----------------------|-------------------------|---------------------|-----------------------|------------|------------|---------|------------|
| 3093-4MU | i5-560M | 2.66 | 3.20 | 4GB | Entry | 2.0M | 320G | 7200 | DVD±RW | UltraBase | Gobi 2000 | Verizon ¹⁶ | Yes | vPro | Pro 32 | Sep 10 |
| 3093-4PU | i5-560M | 2.66 | 3.20 | 2GB | Entry | | 250G | 5400 | | | WWAN upg | | Yes | vPro | Pro 64 | Sep 10 |

- These models have a depot repair service 3-year limited warranty
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

| | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor | <i>Convertible tablet ultraportable; one spindle</i> Intel® Core™ i5 processor i5-560M with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache | | | | | | | | | | | Preloaded operating system²⁰ - Some: Genuine Windows® 7 Professional 32 - Some: Genuine Windows 7 Professional 64 | | | | |
| 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 1 socket; 1 socket available | | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software • ThinkVantage Toolbox • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate | | | | |
| SATA DVD±RW Ultrabay Slim SATA disk | <i>Some:</i> DVD burner, SATA 1.5Gb/s, removable from <i>X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 250GB⁸ (5400 rpm) or 320GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i> | | | | | | | | | | | | | | | |
| Widescreen display | <i>Entry:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in side base (right), 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) <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | | | | | | |
| Camera | | | | | | | | | | | | Supports ThinkVantage® technologies | | | | |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP) @60Hz; 2048x1536(VGA) @75Hz | | | | | | | | | | | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: – DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 – Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB FDE 7200 rpm 43N3411 | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch None | | | | | | | | | | | | | | | |
| Dimensions ³ | <i>without UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm <i>without UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm <i>4-cell:</i> from 3.57 lb (1.62kg); <i>8-cell:</i> from 3.96 lb (1.8kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy | | | | | | | | | | | | | | | |
| Weight ² Case | | | | | | | | | | | | | | | | |
| Battery - type | Lithium Ion 8-cell | | | | | | | | | | | | | | | |
| Battery - life ¹⁰ | <i>4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 7.9 hr | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | | | | | |
| Media slice | <i>Some:</i> ThinkPad X200 UltraBase media slice (see right side) | | | | | | | | | | | | | | | |
| Multicard Reader ExpressCard/54 | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | | | |
| Ports | Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | | | | | | | | | | | | | | | |
| PCIe Mini Card Intel 6200 ²⁸ WWAN upg Gobi™ 2000 | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 <i>Some:</i> Wireless WAN upgradable <i>Some:</i> Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider | | | | | | | | | | | | | | | |
| Carrier Modem | <i>Some:</i> Verizon®, contract required with service provider 56K V.92 ⁶ modem | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | | | | | | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic 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 | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | |
| Fingerprint reader | UPEK Fingerprint reader (right base of display), used in tablet/notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 & digitizer pen - depot repair service / service upgrades ²² available | | | | | | | | | | | | | | | |

See footnotes for important warranty information
US models announced September 28

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(CML3-11) December 2010

ThinkPad® X201 Tablet (3113) - Onsite (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Base (GHz) | Max turbo (GHz) | Memory | Widescreen display | Camera | Disk SATA GB ⁵ rpm | Optical in UltraBase | ThinkPad X200 UltraBase | Blue/ Intel Fing cells vPro | Battery Intel vPro | Workhorse (W) Gbl (G) GMP (P) | Avail date |
|------------|-----------|------------|-----------------|--------|---------------------------|--------|-------------------------------|----------------------|-------------------------|-----------------------------|--------------------|-------------------------------|--------------|
| 3113-92U | i7-640LM | 2.13 | 2.93 | 2GBx1 | 12.1" WXGA <i>Entry</i> | 2.0M | 320G 7200 | DVD±RW | UltraB | Yes | 8 vPro | Pro 32 | W G P Mar 10 |
| 3113-93U | i7-640LM | 2.13 | 2.93 | 2GBx1 | 12.1" WXGA <i>Entry</i> | | 250G 5400 | | | Yes | 8 vPro | Pro 32 | W G P Mar 10 |
| 3113-94U | i7-620LM | 2.00 | 2.80 | 2GBx1 | 12.1" WXGA <i>Entry</i> | | 250G 5400 | | | | 8 vPro | Pro 32 | W G P Mar 10 |
| 3113-95U | i7-640LM | 2.13 | 2.93 | 2GBx2 | 12.1" WXGA <i>Outdoor</i> | 2.0M | 320G 7200 | | | Yes | 8 vPro | Pro 32 | W G P Mar 10 |
| 3113-96U | i7-640LM | 2.13 | 2.93 | 2GBx2 | 12.1" WXGA <i>Multi</i> | 2.0M | 320G 7200 | | | Yes | 8 vPro | Pro 32 | W G P Mar 10 |
| 3113-42U | i7-620LM | 2.00 | 2.80 | 2GBx1 | 12.1" WXGA <i>Entry</i> | 2.0M | 160G 7200 | | | Yes | 8 vPro | Pro 64 | W G P Apr 10 |
| 3113-3ZU | i7-620LM | 2.00 | 2.80 | 2GBx1 | 12.1" WXGA <i>Multi</i> | 2.0M | 160G 7200 | | | Yes | 8 vPro | Pro 64 | W G P Apr 10 |
| ☞ 3113-98U | i5-520UM | 1.06 | 1.86 | 2GBx1 | 12.1" WXGA <i>Entry</i> | 2.0M | 320G 7200 | DVD±RW | UltraB | Yes | 8 vPro | Pro 32 | Jun 10 |
| ☞ 3113-9AU | i5-520UM | 1.06 | 1.86 | 2GBx1 | 12.1" WXGA <i>Entry</i> | | 160G 7200 | | | | 4 vPro | Pro 64 | W G P Jun 10 |
| ☞ 3113-9BU | i5-520UM | 1.06 | 1.86 | 2GBx1 | 12.1" WXGA <i>Multi</i> | 2.0M | 160G 7200 | | | Yes | 8 vPro | Pro 64 | W G P Jun 10 |
| ☞ 3113-9CU | i5-520UM | 1.06 | 1.86 | 2GBx1 | 12.1" WXGA <i>Outdoor</i> | 2.0M | 160G 7200 | | | Yes | 8 vPro | Pro 64 | W G P Jun 10 |

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

| | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|---|--|--|
| Positioning Processor | <i>Convertible tablet ultraportable; one spindle</i> Intel® Core™ i5 processor i5-520UM with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 800MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache or Intel Core i7 processor i7-620LM or i7-640LM with dual-core , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 4MB cache | | | | | | | | | | Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Professional 32 - <i>Some:</i> Genuine Windows 7 Professional 64 Preloaded applications¹⁴ (only some listed) | | |
| Memory | 2GB or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | <ul style="list-style-type: none"> • Rescue and Recovery™ • Access Connections™ • Password Manager • ThinkVantage Power Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • ThinkVantage Toolbox • Lenovo SimpleTap (Multi-Touch models) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch | | |
| SATA DVD±RW Ultrabay Slim SATA disk | <i>Some:</i> DVD burner, SATA 1.5Gb/s, removable from <i>X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 160GB⁸ (7200 rpm), 250GB⁸ (5400 rpm), or 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i> | | | | | | | | | | | | |
| Widescreen display | <p><i>Entry:</i> 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless</p> <p><i>Outdoor:</i> 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, LED backlight, 400 nits, 16:10 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, PVA or IPS</p> <p><i>MultiTouch:</i> 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, LED backlight, 300 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, enhanced MultiTouch (touchscreen support pen & two-finger touch)</p> <p><i>All:</i> WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), 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)</p> | | | | | | | | | | | | |
| Camera | <i>Some:</i> camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | Supports ThinkVantage® technologies | | |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution: 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz</i> | | | | | | | | | | ThinkPad X200 UltraBase™ <ul style="list-style-type: none"> • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: <ul style="list-style-type: none"> - DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 - Serial ATA Hard Drive Bay Adapter III 43N3412 • Disks supported (some): <ul style="list-style-type: none"> • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch None | | | | | | | | | | | | |
| Dimensions ³ | <i>without UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm <i>without UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm <i>4-cell:</i> from 3.57 lb (1.62kg); <i>8-cell:</i> from 3.96 lb (1.8kg) | | | | | | | | | | | | |
| Weight ² | | | | | | | | | | | | | |
| Case | <i>Color:</i> black; <i>Material:</i> magnesium alloy | | | | | | | | | | | | |
| Battery - type | Lithium Ion 4-cell or 8-cell | | | | | | | | | | | | |
| Battery - life ¹⁰ | <i>4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 7.9 hr | | | | | | | | | | | | |
| Chipset | Mobile Intel QM57 Express Chipset | | | | | | | | | | | | |
| Media slice | <i>Some:</i> ThinkPad X200 UltraBase media slice (see right side) | | | | | | | | | | | | |
| Multicard Reader | 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) | | | | | | | | | | | | |
| ExpressCard/54 | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | |
| Ports | Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | | | | | | | | | | | | |
| PCIe Mini Card | Two PCI Express Mini Card slots | | | | | | | | | | | | |
| Intel 6200 ²⁸ | 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 | | | | | | | | | | | | |
| WWAN upg | Wireless WAN upgradable | | | | | | | | | | | | |
| Modem | 56K V.92 ⁶ modem | | | | | | | | | | | | |
| Bluetooth™ | <i>Some:</i> Bluetooth 2.1 wireless, LED indicator | | | | | | | | | | | | |
| Ethernet | Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 | | | | | | | | | | | | |
| Intel AMT | Intel Active Management Technology (iAMT) | | | | | | | | | | | | |
| Audio support | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic input jack, headphone jack | | | | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | |
| Fingerprint reader | <i>Some:</i> UPEK Fingerprint reader (right base of display), used in tablet/notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 & digitizer pen, limited onsite service²⁴ , 8 am - 5 pm, Mon - Fri, excluding holidays, next business day response / service upgrades ²² available | | | | | | | | | | | | |

See footnotes for important warranty information

☞ US models announced May 25, 2010; previous models on February 23 or April 20, 2010

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ThinkPad® X201 Tablet (3093) - Education (Windows 7)

Personal Systems Reference (PSREF)

| Type-model | Processor | Max Base turbo (GHz) | Memory | Widescreen display | Camera | Disk SATA GB ⁵ | Optical in rpm | ThinkPad X200 UltraBase | PCle Mini Card 802.11 | PCle Mini Card WWAN | Intel vPro | Workhorse (W) Global (G) Avail date |
|------------|-----------|----------------------|--------|--------------------|------------------|---------------------------|----------------|-------------------------|-----------------------|--------------------------|------------|-------------------------------------|
| 3093-N2U | i7-640LM | 2.13 | 2.93 | 2GB | 12.1" WXGA Entry | 2.0M | 320G 7200 | Optional | Opt | Intel 6200 ²⁸ | WWAN upg | vPro Pro 32 W Mar 10 |
| 3093-N3U | i7-640LM | 2.13 | 2.93 | 2GB | 12.1" WXGA Entry | 2.0M | 320G 7200 | Optional | Opt | Intel 6200 | WWAN upg | vPro Pro 32 W Mar 10 |

- **These models have a depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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>Convertible tablet ultraportable; one spindle</i> Intel® Core™ i7 processor i7-640LM with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 4MB cache | | | | | | | | | | Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 |
| 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 1 socket; 1 socket available | | | | | | | | | | Preloaded applications¹⁴ (only some listed) • <i>N2U model:</i> Education software - Microsoft® Office OneNote® 2007 (and CD) • <i>N3U model:</i> Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD) • Education software - Adobe Digital School Collection • Microsoft Office 2010 preloaded; purchase product key to activate |
| SATA DVD±RW Ultrabay Slim SATA disk | Option for <i>ThinkPad X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i> | | | | | | | | | | |
| Widescreen display | <i>Entry:</i> 12.1" (308mm) WXGA (1280x800) TFT color , anti-glare, LED backlight , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen , pen holder in side base (right), 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) | | | | | | | | | | Supports ThinkVantage® technologies |
| Camera | Camera on top of screen, 2.0-megapixel, fixed focus | | | | | | | | | | ThinkPad X200 UltraBase™ • Provides desktop expansion and cable management for X200 and X201 Series • Easily connects to the bottom of the X200 or X201 Series for traveling • Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: - DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292 - Serial ATA Hard Drive Bay Adapter III 43N3412 Disks supported (some): • 250GB FDE 7200 rpm 43N3410 • 320GB Disk 7200 rpm 43N3411 |
| Integrated graphics | Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP)@60Hz; 2048x1536(VGA)@75Hz | | | | | | | | | | 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 |
| Keyboard TrackPoint® Touchpad ThinkLight™ | Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch None | | | | | | | | | | |
| Dimensions ³ | <i>without UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm <i>without UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm <i>4-cell:</i> from 3.57 lb (1.62kg); <i>8-cell:</i> from 3.96 lb (1.8kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy | | | | | | | | | | |
| Weight ² Case | Lithium Ion 8-cell <i>4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 7.9 hr | | | | | | | | | | |
| Battery - type | Mobile Intel QM57 Express Chipset | | | | | | | | | | |
| Battery - life ¹⁰ | <i>Option: ThinkPad X200 UltraBase media slice</i> (see right side) 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54) Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) | | | | | | | | | | |
| Chipset | Two PCI Express Mini Card slots 11a/b/g/n wireless, PCIe Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable 56K V.92 ⁶ modem Bluetooth 2.1 wireless, LED indicator Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1 Intel Active Management Technology (iAMT) | | | | | | | | | | |
| Media slice | High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic input jack, headphone jack | | | | | | | | | | |
| Multicard Reader ExpressCard/54 | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | |
| Ports | UPEK Fingerprint reader on right base of display, used in tablet or notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip | | | | | | | | | | |
| PCle Mini Card Intel 6200 ²⁸ WWAN upg | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-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 | | | | | | | | | | |
| Modem | Limited warranty¹² 3-years/1-yr battery & digitizer pen - depot repair service / service upgrades²² available | | | | | | | | | | |
| Bluetooth™ | | | | | | | | | | | |
| Ethernet | | | | | | | | | | | |
| Intel AMT | | | | | | | | | | | |
| Audio support | | | | | | | | | | | |
| Security | | | | | | | | | | | |
| Security chip | | | | | | | | | | | |
| Fingerprint reader | | | | | | | | | | | |

See footnotes for important warranty information
US models announced February 23, 2010

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| Type-model | Processor | Max Base turbo (GHz) | Memory (GHz) | Widescreen display | Camera | Disk SATA GB ⁵ | Optical in rpm | ThinkPad X200 UltraBase | PCle Mini Card 802.11 | PCle Mini Card WWAN | Intel vPro | Workhorse (W) Global (G) Avail date |
|------------|-----------|----------------------|--------------|--------------------|------------------|---------------------------|----------------|-------------------------|-----------------------|--------------------------|------------|-------------------------------------|
| 3113-N2U | i7-640LM | 2.13 | 2.93 | 2GB | 12.1" WXGA Entry | 2.0M | 320G 7200 | Optional | Opt | Intel 6200 ²⁸ | WWAN upg | vPro Pro 32 W Mar 10 |
| 3113-N3U | i7-640LM | 2.13 | 2.93 | 2GB | 12.1" WXGA Entry | 2.0M | 320G 7200 | Optional | Opt | Intel 6200 | WWAN upg | vPro Pro 32 W Mar 10 |

- **These models have a depot repair service 3-year limited warranty**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **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 | <p><i>Convertible tablet ultraportable; one spindle</i> Intel® Core™ i7 processor i7-640LM with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 4MB cache</p> | | | | | | | | | | <p>Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32</p> |
| Memory | <p>2GB std / 8GB max⁷ / 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</p> | | | | | | | | | | <p>Preloaded applications¹⁴ (only some listed) • <i>N2U model:</i> Education software - Microsoft® Office OneNote® 2007 (and CD) • <i>N3U model:</i> Education software - Microsoft Office Ultimate 2007 Academic Edition (and CD) • Education software - Adobe Digital School Collection • Microsoft Office 2010 preloaded; purchase product key to activate</p> |
| SATA DVD±RW Ultrabay Slim SATA disk | <p>Option for <i>ThinkPad X200 UltraBase</i> Supports Ultrabay Slim devices in optional or standard <i>X200 UltraBase</i> (43R8781) 320GB⁸ (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™, supports second disk in opt or std <i>X200 UltraBase</i></p> | | | | | | | | | | |
| Widescreen display | <p><i>Entry:</i> 12.1" (308mm) WXGA (1280x800) TFT color, anti-glare, LED backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio, PVA or IPS, frameless WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), 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)</p> | | | | | | | | | | <p>Supports ThinkVantage® technologies</p> |
| Camera | <p>Camera on top of screen, 2.0-megapixel, fixed focus</p> | | | | | | | | | | |
| Integrated graphics | <p>Intel HD Graphics in processor, external monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase; supports dual independent display; <i>Maximum external resolution:</i> 2560x1600 (DP) @60Hz; 2048x1536(VGA) @75Hz</p> | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | <p>Full-size, 89-key, ThinkVantage button, spill-resistant, mm Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions, multi-touch None</p> | | | | | | | | | | |
| Dimensions ³ | <p><i>without UltraBase; 4-cell:</i> 11.6" x 9" x 1-1.3"; 295mm x 228mm x 26.5-33.3mm <i>without UltraBase; 8-cell:</i> 11.6" x 10.1" x 1-1.3"; 295mm x 257mm x 26.5-33.3mm <i>4-cell:</i> from 3.57 lb (1.62kg); <i>8-cell:</i> from 3.96 lb (1.8kg) <i>Color:</i> black; <i>Material:</i> magnesium alloy</p> | | | | | | | | | | |
| Weight ² Case | <p>Lithium Ion 8-cell <i>4-cell:</i> up to 3.5 hr; <i>8-cell:</i> up to 7.9 hr</p> | | | | | | | | | | |
| Battery - type | | | | | | | | | | | |
| Battery - life ¹⁰ | | | | | | | | | | | |
| Chipset | <p>Mobile Intel QM57 Express Chipset</p> | | | | | | | | | | |
| Media slice | <p><i>Option:</i> ThinkPad X200 UltraBase media slice (see right side)</p> | | | | | | | | | | |
| Multicard Reader ExpressCard/54 | <p>5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) One slot (ExpressCard/34, ExpressCard/54)</p> | | | | | | | | | | |
| Ports | <p>Three USB 2.0 (one powered), external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45)</p> | | | | | | | | | | |
| PCle Mini Card Intel 6200 ²⁸ WWAN upg | <p>Two PCI Express Mini Card slots 11a/b/g/n wireless, PCle Mini Card, Intel Centrino® Advanced-N 6200, 2x2 Wireless WAN upgradable</p> | | | | | | | | | | |
| Modem | <p>56K V.92⁶ modem</p> | | | | | | | | | | |
| Bluetooth™ | <p>Bluetooth 2.1 wireless, LED indicator</p> | | | | | | | | | | |
| Ethernet | <p>Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCle x1</p> | | | | | | | | | | |
| Intel AMT | <p>Intel Active Management Technology (iAMT)</p> | | | | | | | | | | |
| Audio support | <p>High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic input jack, headphone jack</p> | | | | | | | | | | |
| Security | <p>Power-on password, hard disk password, supervisor password, security keyhole</p> | | | | | | | | | | |
| Security chip | <p>Trusted Platform Module, TCG 1.2-compliant</p> | | | | | | | | | | |
| Fingerprint reader | <p>UPEK Fingerprint reader (right base of display), used in tablet/notebook mode, 2-way swipe sensor, LED indicator, Power On Authentication, supports the security chip</p> | | | | | | | | | | |
| Limited warranty ¹² | <p>3-years/1-year - battery & digitizer pen, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri, excluding holidays, next business day response / service upgrades²² available</p> | | | | | | | | | | <p>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</p> <p>65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant ROHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² via 800-426-7378</p> |

See footnotes for important warranty information
 US models announced February 23, 2010

Memory

| | | |
|--|---------|--------------|
| 1GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3706 | ann 06/23/09 |
| 1GB PC3-8500 DDR3 L-H SODIMM (25-Pack) | 57Y4385 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3707 | ann 06/23/09 |
| 2GB PC3-8500 DDR3 L-H SODIMM (25-Pack) | 57Y4386 | ann 06/23/09 |
| 4GB PC3-8500 DDR3 Low-Halogen SODIMM | 55Y3708 | ann 06/23/09 |

Ultrabay Slim 9.5mm

Most Ultrabay Slim accessories supported in ThinkPad X200 UltraBase

| | | |
|---|---------|--------------|
| Serial ATA Hard Drive Bay Adapter III | 43N3412 | ann 06/23/09 |
| DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s | 43N3292 | ann 08/03/10 |
| DVD Burner Ultrabay Slim Drive II SATA 1.5G/s | 43N3229 | ann 06/23/09 |
| Ultrabay Slim Blu-ray Burner II (SATA) | 43N3230 | ann 06/23/09 |

Storage and removable storage

| | | |
|--|---------|--------------|
| 160GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 41N5737 | ann 10/16/07 |
| 250GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43R8152 | ann 01/15/08 |
| 250GB Disk FDE SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3410 | ann 01/20/09 |
| 320GB Disk SATA 3.0Gb/s (5400 rpm) ⁴¹ | 43N3403 | ann 08/05/08 |
| 320GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3411 | ann 01/20/09 |
| 500GB Disk SATA 3.0Gb/s (7200 rpm) ⁴¹ | 43N3423 | ann 01/07/10 |

⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive Bay Adapter III 43N3412 in X200 UltraBase (43R8781)

| | | |
|--|---------|--------------|
| 128GB SSD SATA 3.0Gb/s 1.8" (2.5" cover) | 43N3406 | ann 08/26/08 |
| 256GB FDE SSD SATA 3Gb/s 1.8" (2.5" cover) | 43N3417 | ann 06/23/09 |
| ThinkPad 160GB Intel X25-M SSD ⁴¹ | 43N3435 | ann 06/22/10 |

| | | |
|---|---------|--------------|
| USB 2.0 Portable 320GB Hard Disk | 45K1689 | ann 03/17/09 |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | ann 05/26/09 |
| USB 2.0 Portable Secure 160GB Hard Disk | 43R2018 | ann 11/18/08 |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | ann 11/18/08 |
| eSATA/USB 2.0 Secure 500GB Hard Drive ⁵³ | 57Y4400 | ann 01/07/10 |

⁵³ USB-only attach.

Wireless WAN (Mini PCI Express)

Only WWAN upgradable models:

| | | |
|---|---------|--------------|
| ThinkPad Gobi™ 2000 Broadband Option | 78Y1399 | ann 01/07/10 |
| ThinkPad AT&T® Gobi 2000 Broadband Option | 78Y1398 | ann 01/07/10 |

ThinkPad Expansion

| | | |
|--|---------|--------------|
| Lenovo® Essential Notebook Stand | 45J9292 | ann 05/12/09 |
| USB Port Replicator with Digital Video | 45K1610 | ann 07/28/09 |
| 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 |
| Ultralim Wireless Keyboard and Mouse ⁵² | 57Y4700 | ann 09/15/09 |

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

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

Mouse

| | | |
|--|---------|--------------|
| Lenovo Optical Mouse (USB) | 06P4069 | ann 05/21/03 |
| Lenovo Laser Mouse (USB) | 41U3074 | ann 01/23/07 |
| ThinkPad USB Laser Mouse | 57Y4635 | ann 12/15/09 |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | ann 08/27/02 |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | ann 06/04/02 |
| ThinkPad Bluetooth Laser Mouse | 41U5008 | ann 01/22/08 |

Security

| | | |
|---------------------------------------|---------|--------------|
| Kensington® MicroSaver® Cable Lock | 73P2582 | ann 12/29/03 |
| Kensington Twin Head Cable Lock | 45K1620 | ann 09/30/08 |
| Lenovo Security Cable Lock | 57Y4303 | ann 08/24/10 |
| USB Gemplus GemPC Smart Card Reader | 41N3040 | ann 02/21/06 |
| ExpressCard Gemplus Smart Card Reader | 41N3043 | ann 06/27/06 |

Multimedia

| | | |
|----------------------------|---------|--------------|
| ThinkPad In-Ear Headphones | 57Y4488 | ann 01/07/10 |
|----------------------------|---------|--------------|

Tablet

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

Batteries

| | | |
|---|---------|--------------|
| ThinkPad Battery 12 (4-cell) | 43R9256 | ann 09/23/08 |
| ThinkPad Battery 12++ (8-cell) | 43R9257 | ann 09/23/08 |
| ThinkPad External Battery Charger ⁴⁷ | 40Y7625 | ann 09/20/05 |

⁴⁷ Only supports ThinkPad Battery 12 (4-cell) 43R9256

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 |
| Lenovo Power Hub | 57Y4600 | ann 09/07/10 |
| 90W Ultralim AC/DC Combo Adapter | 41R4493 | ann 09/22/09 |

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

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

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

More information at www.lenovopowertips.com

Carrying Cases

X200 Tablet:

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|-----------------------------|---------|--------------|
| ThinkPad X200 Tablet Sleeve | 43R9115 | ann 09/23/08 |
|-----------------------------|---------|--------------|

Up to 13.3" widescreen models:

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|-----------------------------|---------|--------------|
| ThinkPad Ultraportable Case | 41U5062 | ann 05/13/08 |
|-----------------------------|---------|--------------|

Up to 15.4" widescreen models:

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

More information at www.lenovo.com/support/cases
Lenovo luxury cases at www.lenovoluxurycases.com

Monitors

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

Monitor Accessories⁴⁶

| | | |
|---|---------|--------------|
| Lenovo USB-to-DVI Monitor Adapter | 45K5296 | ann 05/12/09 |
| Lenovo DisplayPort to VGA Monitor Cable ⁵⁰ | 57Y4393 | ann 08/04/09 |
| DisplayPort to Single-link DVI-D Cable ⁵⁰ | 45J7915 | ann 08/05/08 |

⁵⁰ Can only be used via ThinkPad X200 UltraBase (43R8781)

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

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on ThinkPad accessories, please visit:

- www.lenovo.com/support/accessories
- www.lenovo.com/support/notebookaccessories
- www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories
Accessories Guide pdf at www.lenovo.com/accessoriesguide

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 for ThinkPad W/X series</p> <p>ThinkPad X100e notebook with 1-year Mail-In warranty</p> <p>2-year Mail-In repair service 78Y1519 3-year Mail-In repair service 78Y1520</p> <p>1-year LOR²⁴ 9x5 Next Business Day 78Y1517 2-year LOR 9x5 Next Business Day 78Y1521 3-year LOR 9x5 Next Business Day 78Y1522</p> <p>ThinkPad X100e notebook with 1-year Depot warranty</p> <p>2-year parts and labor depot repair service 41C9169 3-year parts and labor depot repair service 41C9170</p> <p>1-year LOR 9x5 Next Business Day 41C9166 2-year LOR 9x5 Next Business Day 41C9167 3-year LOR 9x5 Next Business Day 41C9168</p> <p>ThinkPad X series notebook with 1-year Depot warranty</p> <p>2-year parts and labor depot repair service 41C9169 3-year parts and labor depot repair service 41C9170 4-year parts and labor depot repair service 41C9172 5-year parts and labor depot repair service 41C9174</p> <p>1-year LOR 9x5 Next Business Day 41C9166 2-year LOR 9x5 Next Business Day 41C9167 3-year LOR 9x5 Next Business Day 41C9168 4-year LOR 9x5 Next Business Day 41C9171 5-year LOR 9x5 Next Business Day 41C9173</p> <p>ThinkPad W/X series notebook with 3-year Depot warranty</p> <p>4-year parts and labor depot repair service 41C9178 5-year parts and labor depot repair service 41C9180</p> <p>3-year LOR 9x5 Next Business Day 41C9176 4-year LOR 9x5 Next Business Day 41C9177 5-year LOR 9x5 Next Business Day 41C9179</p> <p>ThinkPad W/X series notebook with 3-year Onsite warranty</p> <p>4-year LOR 9x5 Next Business Day 12X5630 5-year LOR 9x5 Next Business Day 43R2162</p> | <p>ThinkPlus Secure Business</p> <p>Lenovo Online Data Backup</p> <ul style="list-style-type: none"> • Secure offsite data storage • 256-bit Advanced Encryption System • Data recovery or access in case of an unforeseen event • Automatic, remote management • Choose which business critical data to back up <p>1-year Lenovo Online Data Backup - 10GB 51J0787 1-year Lenovo Online Data Backup - 25GB 51J0795</p> |
| <p>ThinkPlus service upgrade options for ThinkPad T/R series</p> <p>ThinkPad T/R series notebook with 1-year Depot warranty</p> <p>2-year parts and labor depot repair service 45K5971 3-year parts and labor depot repair service 45K5972 4-year parts and labor depot repair service 45K5974 5-year parts and labor depot repair service 45K5976</p> <p>1-year LOR 9x5 Next Business Day 45K5968 2-year LOR 9x5 Next Business Day 45K5969 3-year LOR 9x5 Next Business Day 45K5970 4-year LOR 9x5 Next Business Day 45K5973 5-year LOR 9x5 Next Business Day 45K5975</p> <p>ThinkPad T/R series notebook with 3-year Depot warranty</p> <p>4-year parts and labor depot repair service 45K6023 5-year parts and labor depot repair service 45K6025</p> <p>3-year LOR 9x5 Next Business Day 45K6021 4-year LOR 9x5 Next Business Day 45K6022 5-year LOR 9x5 Next Business Day 45K6024</p> <p>ThinkPad T/R series notebook with 3-year Onsite warranty</p> <p>4-year LOR 9x5 Next Business Day 45K6038 5-year LOR 9x5 Next Business Day 43R2162</p> | <p>ThinkPlus Priority Support for enterprise customers</p> <ul style="list-style-type: none"> • 9x5 next-business-day response Lenovo Onsite Repair • 24x7 support with priority routing and advanced level technicians <p>ThinkPad notebook with 1-year Depot warranty</p> <p>3-year Priority Support 45J9094</p> <p>ThinkPad notebook with 3-year Depot warranty</p> <p>3-year Priority Support 45J9095 4-year Priority Support 45J9096 5-year Priority Support 45J9097 3-year Priority Support 4-hour response 45J9101 4-year Priority Support 4-hour response 45J9102 5-year Priority Support 4-hour response 45J9103</p> <p>ThinkPad notebook with 3-year Onsite (GMP) warranty</p> <p>3-year Priority Support 45J9098 4-year Priority Support 45J9099 5-year Priority Support 45J9100 3-year Priority Support 4-hour response 45J9104 4-year Priority Support 4-hour response 45J9105 5-year Priority Support 4-hour response 45J9106</p> <p>ThinkPad Workstation notebook with 1-year Depot warranty</p> <p>3-year Priority Support 45J9107</p> <p>ThinkPad Workstation notebook with 3-year Depot warranty</p> <p>3-year Priority Support 45J9108 4-year Priority Support 45J9109 5-year Priority Support 45J9110 3-year Priority Support 4-hour response 45J9114 4-year Priority Support 4-hour response 45J9115 5-year Priority Support 4-hour response 45J9116</p> <p>ThinkPad Workstation notebook with 3-year Onsite (GMP) warranty</p> <p>3-year Priority Support 45J9111 4-year Priority Support 45J9112 5-year Priority Support 45J9113 3-year Priority Support 4-hour response 45J9117 4-year Priority Support 4-hour response 45K1520 5-year Priority Support 4-hour response 45K1521</p> |

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.
- 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 been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

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.

³⁷ **Optimus graphics** Optimus only switches in Windows 7 environment. It performs as discrete graphics in Windows Vista or Windows XP Professional environment.

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