Lenovo® ThinkPad Edge 15"

Lenovo ThinkPad Edge 15"
(Glossy black model)

Lenovo ThinkPad Edge 15"

Lenovo ThinkPad Edge 15"
(Glossy red model)

Lenovo ThinkPad Edge 15"

ThinkPad® Edge 15" 0301 (Intel) - TS (XP with Win 7 License) - withdrawn

Personal Systems Reference (PSREF)

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

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

Positioning Processor	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles* **Intel® Core™ i3 processor i3-370M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache
Memory	**2GB** or **4GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **250GB**[8] (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 Camera on top of screen, 2.0-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536@75Hz; 1920x1080 (HDMI port)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13] UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None
Dimensions[3] Weight[2] Case color Case material Battery - type[37] Battery - life[10]	*15.6W'" (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm *4-cell:* from 5.32 lb (2.42kg); *6-cell:* from 5.50 lb (2.50kg); *9-cell:* from 5.89 lb (2.67kg) Matte black (top) or glossy black (top),trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion **6-cell** *4-cell:* up to 2.9 hr; *6-cell:* up to 4.5 hr
Chipset ExpressCard/34 Multicard Reader Ports	**Mobile Intel HM55 Express Chipset** One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card Intel 1000 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], PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 None None *Some:* Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None *Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional 32

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows

Supports ThinkVantage® technologies

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

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

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

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(LDN1-4) October 2010

Type-model	Processor	GHz	Memory	Widescreen display	Screen type	Disk SATA GB[8] rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Bluetooth	Battery cells	Preload	Avail date
0301-23U	i3-350M	2.26	*4GB*	15.6" HD	Glossy	320G 7200	Intel 6200[28]			Matte black			6	Pro 64	Mar 10
0301-25U	i3-330M	2.13	*4GB*	15.6" HD	Glossy	250G 5400	11b/g/n			Matte black			4	Home P	Mar 10
0301-26U	i3-330M	2.13	2GB	15.6" HD		250G 5400	Intel 1000			Glossy black			6	Pro 32	Mar 10
0301-27U	i3-330M	2.13	2GB	15.6" HD		320G 7200	Intel 1000	Gobi 2000	AT&T[23]	Glossy black		Blue	6	Pro 32	Mar 10
0301-29U	i3-330M	2.13	2GB	15.6" HD	Glossy	250G 5400	Intel 1000			Glossy black			6	Home P	Mar 10
0301-2AU	i3-330M	2.13	*4GB*	15.6" HD		250G 5400	Intel 1000	Gobi 2000	AT&T	Glossy black		Blue	6	Pro 64	Mar 10
0301-2BU	i3-330M	2.13	*4GB*	15.6" HD		250G 5400	Intel 1000	Gobi 2000	Verizon[16]	Glossy black		Blue	6	Pro 64	Mar 10
0301-5PU	i3-330M	2.13	2GB	15.6" HD		320G 7200	Intel 1000	Gobi 2000	Verizon	Glossy black	Finger	Blue	6	Pro 32	Mar 10
0301-5QU	i3-330M	2.13	2GB	15.6" HD		250G 5400	Intel 1000			Glossy red		Blue	6	Pro 32	Mar 10
0301-5RU	i3-330M	2.13	*3GB*	15.6" HD		320G 7200	Intel 1000			Glossy red		Blue	6	Home P	Mar 10
0301-5SU	i3-330M	2.13	*4GB*	15.6" HD		320G 7200	Intel 1000			Glossy black	Finger	Blue	6	Pro 64	Mar 10

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles **Intel® Core™ i3 processor i3-330M** or **i3-350M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache
Memory	**2GB**, **3GB**, or **4GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **250GB**[8] (5400 rpm) or **320GB** (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	*Some:* **15.6"** (395mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (395mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 2.0-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536@75Hz; 1920x1080 (HDMI port)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13] UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None
Dimensions[3] Weight[2] Case color	*15.6W"' (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm *4-cell:* from 5.32 lb (2.42kg); *6-cell:* from 5.50 lb (2.50kg); *9-cell:* from 5.89 lb (2.67kg) Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom
Case material Battery - type[37] Battery - life[10]	Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion **4-cell** or **6-cell** *4-cell:* up to 2.9 hr; *6-cell:* up to 4.5 hr
Chipset ExpressCard/34 Multicard Reader Ports	**Mobile Intel HM55 Express Chipset** One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card 11b/g/n Intel 1000 Intel 6200[28] Gobi™ 2000 Carrier	Two PCI Express Mini Card slots *Some:* 11b/g/n wireless[4], ThinkPad 11b/g/n, PCIe Half Mini Card *Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 *Some:* 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6200, 2x2 *Some:* Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider *Some:* AT&T® or Verizon®, contract required with service provider
Modem	None
Bluetooth™	*Some:* Bluetooth 2.1 wireless
Ethernet	Realtek® RTL8111DL Gigabit Network Connection
Intel AMT	None
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 32
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Lenovo Online Data Backup
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

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

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

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

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(LDN1-1) June 2011

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

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Positioning Processor	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles* **Intel® Celeron® Processor P4500** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), and 2MB cache or **Intel Core™ i3 processor i3-330M** or **i3-350M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or **Intel Core i5 processor i5-430M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache
Memory	**2GB** or **4GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **250GB**[8] (5400 rpm), **320GB** (7200 rpm), or **500GB** (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	*Some:* **15.6"** (395mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (395mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 2.0-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536@75Hz; 1920x1080 (HDMI port)
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13] UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3] Weight[2] Case color	*15.6W'" (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm *4-cell:* from 5.32 lb (2.42kg); *6-cell:* from 5.50 lb (2.50kg); *9-cell:* from 5.89 lb (2.67kg) Matte black (top) or glossy black (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion **4-cell** or **6-cell**
Battery - life[10]	*4-cell:* up to 2.9 hr; *6-cell:* up to 4.5 hr
Chipset ExpressCard/34 Multicard Reader Ports	**Mobile Intel HM55 Express Chipset** One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card Intel 1000 WiMAX Gobi™ 2000 Carrier	Two PCI Express Mini Card slots *Some:* 11b/g/n wireless[4], PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 *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, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider *Some:* AT&T®, contract required with service provider
Modem	None
Bluetooth™	*Some:* Bluetooth 2.1 wireless
Ethernet	Realtek® RTL8111DL Gigabit Network Connection
Intel AMT	None
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 32
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating (except Celeron models)
ENERGY STAR® 5.0-compliant (except Celeron models)
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

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

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

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(LDN1-2) June 2011

ThinkPad® Edge 15" 0301 (Intel) - TopS (Win 7) - July 2010 - withdrawn

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

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

Positioning	Sophisticated design with quality, durability and reliability for SMB customers; two spindles
Processor	**Intel® Core™ i3 processor i3-350M** or **i3-370M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or **Intel Core i5 processor i5-450M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache
Memory	**2GB**, **3GB**, or **4GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **250GB**[8] (5400 rpm), **320GB** (7200 rpm), or **500GB** (5400 or 7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	*Some:* **15.6"** (395mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (395mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 2.0-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536@75Hz; 1920x1080 (HDMI port)
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13]
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*15.6W" (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm
Weight[2]	*4-cell:* from 5.32 lb (2.42kg); *6-cell:* from 5.50 lb (2.50kg); *9-cell:* from 5.89 lb (2.67kg)
Case color	Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion **4-cell** or **6-cell**
Battery - life[10]	*4-cell:* up to 2.9 hr; *6-cell:* up to 4.5 hr
Chipset	**Mobile Intel HM55 Express Chipset**
ExpressCard/34	One ExpressCard/34
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
Intel 1000	11b/g/n wireless[4], PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2
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:* AT&T®, contract required with service provider
Modem	None
Bluetooth™	*Some:* Bluetooth 2.1 wireless
Ethernet	Realtek® RTL8111DL Gigabit Network Connection
Intel AMT	None
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 32
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
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] 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
Post-warranty annual maintenance agreements at
lenovo.com/thinkplus/warranty

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

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(LDN1-5) June 2011

Type-model	Processor	GHz	Max turbo (GHz)	Memory	Wide-screen display	Disk SATA GB[8] rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
0301-JDU	i5-480M	2.66	2.93	*4GB*	15.6" HD	320G 7200	Intel 1000	None	None	Matte black	Fing	Blue	6	Pro 64	Jan 11
0301-JAU	i3-390M	2.66		*4GB*	15.6" HD	320G 7200	Intel 1000	None	None	Matte black	Fing	Blue	6	Pro 64	Jan 11
0301-J9U	i3-390M	2.66		2GB	15.6" HD	250G 5400	Intel 1000	None	None	Matte black			6	Pro 64	Jan 11
0301-K3U	i3-390M	2.66		4GB	15.6" HD	500G 5400	Intel 1000	None	None	Matte black			6	Home P	Jan 11
0301-Q2U	i3-380M	2.53		2GB	15.6" HD	250G 5400	11b/g/n	None	None	Matte black			6	Pro 64	Jan 11

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

Positioning	Sophisticated design with quality, durability and reliability for SMB customers; two spindles
Processor	**Intel® Core™ i3 processor i3-380M** or **i3-390M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or **Intel Core i5 processor i5-480M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; 3MB cache
Memory	**2GB** or **4GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **250GB**[8] (5400 rpm), **320GB** (7200 rpm), or **500GB** (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display 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 HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536@75Hz; 1920x1080 (HDMI port)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13] UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None
Dimensions[3] Weight[2] Case color Case material Battery - type[37] Battery - life[10]	*15.6W" (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm *4-cell:* from 5.32 lb (2.42kg); *6-cell:* from 5.50 lb (2.50kg); *9-cell:* from 5.89 lb (2.67kg) Matte black (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion **6-cell** *4-cell:* up to 2.9 hr; *6-cell:* up to 4.5 hr
Chipset ExpressCard/34 Multicard Reader Ports	**Mobile Intel HM55 Express Chipset** One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card 11b/g/n Intel 1000 WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Two PCI Express Mini Card slots *Some:* 11b/g/n wireless[4], ThinkPad 11b/g/n, PCIe Half Mini Card *Some:* 11b/g/n wireless[4], PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 None None *Some:* Bluetooth 2.1 wireless Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None *Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
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] 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
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

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

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(LDN1-7) June 2011

Type-model	Proc-essor	GHz	Memory	Wide-screen display	Screen type	Camera	Disk SATA GB[8]	rpm	PCIe Mini Card 802.11	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
0302-22U	P820	1.80	*4GB*	15.6" HD	Glossy	2.0M	320G	7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jun 10
0302-23U	P520	2.30	*4GB*	15.6" HD	Glossy	0.3M	320G	5400	11b/g/n	Glossy black			6	Home P 64	Jun 10
0302-24U	P320	2.10	2GB	15.6" HD			250G	5400	11b/g/n	Matte black			4	Home P 64	Jun 10
0302-2BU	P320	2.10	2GB	15.6" HD		2.0M	250G	5400	11b/g/n	Matte black			6	Pro 64	Jul 10
0302-2CU	P320	2.10	*4GB*	15.6" HD		2.0M	320G	7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0302-2DU	P520	2.30	2GB	15.6" HD		2.0M	250G	5400	11b/g/n	Matte black			6	Pro 64	Jul 10
0302-2EU	P520	2.30	*4GB*	15.6" HD		2.0M	320G	7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0302-2FU	P820	1.80	2GB	15.6" HD		2.0M	250G	5400	11b/g/n	Matte black			6	Pro 64	Jul 10
0302-2GU	P820	1.80	*4GB*	15.6" HD		2.0M	500G	7200	11b/g/n	Matte black	Finger	Blue	6	Pro 64	Jul 10
0302-2HU	P820	1.80	*4GB*	15.6" HD	Glossy	2.0M	500G	7200	11b/g/n	Glossy black	Finger	Blue	6	Pro 64	Jul 10
0302-2JU	P820	1.80	*4GB*	15.6" HD	Glossy	2.0M	500G	7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jul 10
0302-2KU	P520	2.30	*4GB*	15.6" HD	Glossy	2.0M	320G	7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jul 10
0302-2LU	P520	2.30	2GB	15.6" HD		2.0M	320G	7200	11b/g/n	Matte black			6	Home P 64	Jul 10
0302-3HU	P820	1.80	*4GB*	15.6" HD		2.0M	320G	7200	11b/g/n	Glossy red	Finger	Blue	6	Pro 64	Jul 10
0302-3JU	P520	2.30	*4GB*	15.6" HD	Glossy	0.3M	320G	5400	11b/g/n	Glossy black			6	Home P 64	Jul 10
0302-3KU	P520	2.30	2GB	15.6" HD		0.3M	320G	7200	11b/g/n	Glossy black			6	Home P 64	Jul 10
0302-3LU	P520	2.30	2GB	15.6" HD		0.3M	320G	7200	11b/g/n	Glossy red			6	Home P 64	Jul 10

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles **AMD® Athlon™ II Dual-Core Mobile Processor P320** with **dual-core,** virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache or **AMD Turion™ II Dual-Core Mobile Processor P520** with **dual-core,** virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache or **AMD Phenom™ II Triple-Core Mobile Processor P820** with **triple-core,** virtualization technology, integrated DDR3 memory controller, and 1.5MB L2 cache
Memory	**2GB** or **4GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **250GB**[8] (5400 rpm), **320GB** (5400 or 7200 rpm), or **500GB** (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	*Some:* **15.6"** (395mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (395mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	*Some:* camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus
Integrated graphics	**ATI™ Radeon™ HD 4250 graphics**, in RS880M, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2456x1536@60Hz
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13] UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3] Weight[2] Case color	*15.6W"' (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm *4-cell:* from 5.40 lb (2.45kg); *6-cell:* from 5.58 lb (2.53kg); *9-cell:* from 5.95 lb (2.70kg) Matte black (top), glossy black (top), or glossy red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion **4-cell** or **6-cell**
Battery - life[10]	*4-cell:* up to 2.6 hr; *6-cell:* up to 4 hr; *9-cell:* up to 6 hr
Chipset	**AMD RS880M Chipset**, SB820M south bridge
ExpressCard/34	One ExpressCard/34
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card 11b/g/n	One PCI Express Half Mini Card slot 11b/g/n wireless[4], ThinkPad 11b/g/n, PCIe Half Mini Card
Modem	None
Bluetooth™	*Some:* Bluetooth 2.1 wireless
Ethernet	Realtek® RTL8111DL Gigabit Network Connection
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
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] 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
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

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

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(LDN1-3) December 2010

Type-model	Proc-essor	GHz	Memory	Wide-screen display	Screen type	Camera	Disk SATA GB[8] rpm		PCIe Mini Card 802.11	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
0302-44U	P340	2.20	2GB	15.6" HD		2.0M	320G	7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
0302-45U	P540	2.40	2GB	15.6" HD		2.0M	320G	7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
0302-4LU	P840	1.90	4GB	15.6" HD	Glossy	0.3M	500G	5400	11b/g/n	Glossy black	None	None	6	Home P	Jan 11
0302-54U	P560	2.50	2GB	15.6" HD		2.0M	320G	7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11
0302-55U	P360	2.30	2GB	15.6" HD		2.0M	320G	7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11

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

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**AMD® Athlon™ II Dual-Core Mobile Processor P340** or **P360** with **dual-core,** virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache or **AMD Turion™ II Dual-Core Mobile Processor P540** or **P560** with **dual-core,** virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache or **AMD Phenom™ II Triple-Core Mobile Processor P840** with **triple-core,** virtualization technology, integrated DDR3 memory controller, and 1.5MB L2 cache
Memory	**2GB** or **4GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **320GB**[8] (7200 rpm) or **500GB** (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	*Some:* **15.6"** (395mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (395mm) **HD (1366x768) color**, VibrantView (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus
Integrated graphics	**ATI™ Radeon™ HD 4250 graphics**, in RS880M, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2456x1536@60Hz
Keyboard TrackPoint® Touch pad	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13] UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3] Weight[2] Case color	*15.6W" (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm *4-cell:* from 5.40 lb (2.45kg); *6-cell:* from 5.58 lb (2.53kg); *9-cell:* from 5.95 lb (2.70kg) Matte black (top) or glossy black (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion **6-cell**
Battery - life[10]	*4-cell:* up to 2.6 hr; *6-cell:* up to 4 hr; *9-cell:* up to 6 hr
Chipset	**AMD RS880M Chipset**, SB820M south bridge
ExpressCard/34	One ExpressCard/34
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card 11b/g/n	One PCI Express Half Mini Card slot 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1
Modem	None
Bluetooth™	None
Ethernet	Realtek® RTL8111DL Gigabit Network Connection
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

ThinkPlus™,[22] 1-year LOR[24] 9x5 NBD 45K5968
ThinkPlus 2-year LOR 9x5 NBD 45K5969
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5973
ThinkPlus 2-year P&L P/U Depot 45K5971
ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkPlus 4-year P&L P/U Depot 45K5974
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

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

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(LDN1-6) October 2011

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

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

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

Positioning Processor	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles* **Intel® Pentium® processor P6100** or **P6200** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), 3MB cache or **Intel Core™ i3 processor i3-370M** or **i3-380M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache or **Intel Core i5 processor i5-540M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost (3.06GHz), Hyper-Threading technology; 3MB cache
Memory	**2GB** or **4GB** std / **8GB** max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **250GB**[8] (5400 rpm), **320GB** (5400 rpm or 7200 rpm) or **500GB** (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (396mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3 or 2.0-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536@75Hz; 1920x1080 (HDMI port)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar[13] UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch None
Dimensions[3] Weight[2]	*15.6W" (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm *4-cell:* from 5.32 lb (2.42kg); *6-cell:* from 5.50 lb (2.50kg); *9-cell:* from 5.89 lb (2.67kg)
Case color Case material Battery - type[37] Battery - life[10]	Matte black or Black textured (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion **6-cell** *4-cell (32Whr):* up to 2.9 hr; *6-cell (48Whr):* up to 4.5 hr
Chipset ExpressCard/34 Multicard Reader Ports	**Mobile Intel HM55 Express Chipset** One ExpressCard/34 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card 11b/g/n WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None None None Realtek® RTL8111DL Gigabit Network Connection None High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole None None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
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]

1-year Onsite Repair 9x5 NBD	45K5968
2-year Onsite Repair 9x5 NBD	45K5969
3-year Onsite Repair 9x5 NBD	45K5970
4-year Onsite Repair 9x5 NBD	45K5973
2-year Depot Repair	45K5971
3-year Depot Repair	45K5972
4-year Depot Repair	45K5974

Post-warranty annual maintenance agreements at
http://www.lenovo.com/ services_warranty/us/en/ index.html

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

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

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

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

Keyboard
TrackPoint Cap Collection	73P2698	*ann*	*12/16/03*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann*	*04/05/11*
USB Numeric Keypad	33L3225	*ann*	*05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann*	*06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann*	*03/23/04*
Lenovo Mini Wireless Keyboard N5901[52] (blk)	57Y6336		

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

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

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

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

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

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

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

Batteries[37]
ThinkPad Battery 25 (4-cell)	51J0498	*ann*	*10/22/09*
ThinkPad Battery 25+ (6-cell)	51J0499	*ann*	*10/22/09*
ThinkPad Battery 25++ (9-cell)	51J0500	*ann*	*10/22/09*
ThinkPad External Battery Charger[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*
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
ThinkPad 15W Case Sleeve	51J0477	*ann*	*08/18/09*
Lenovo Messenger Max	41U5253	*ann*	*05/01/07*
Lenovo Performance BackPack	41U5254	*ann*	*05/01/07*
ThinkPad Business Topload Case	43R2476	*ann*	*05/13/08*
ThinkPad Business Backpack	43R2482	*ann*	*05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann*	*05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann*	*05/13/08*
Lenovo Sport Backpack - Red	0A33896	*ann*	*02/28/12*
Lenovo Sport Slimcase - Red	0A33897	*ann*	*02/28/12*
Lenovo Sport Messenger - Red	0A33898	*ann*	*02/28/12*
Lenovo Sport Backpack - Blue	0B47298	*ann*	*08/28/12*
Lenovo Sport Slimcase - Blue	0B47300	*ann*	*08/28/12*
Lenovo Sport Messenger - Blue	0B47299	*ann*	*08/28/12*
Lenovo Sport Backpack - Grey	0B47301	*ann*	*08/28/12*
Lenovo Sport Slimcase - Grey	0B47303	*ann*	*08/28/12*
Lenovo Sport Messenger - Grey	0B47302	*ann*	*08/28/12*

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

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

[69] DisplayPort cable is not included.

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

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

Monitor Accessories[46]
Lenovo USB Soundbar	0A36190	*ann*	*05/01/12*
Lenovo HDMI to HDMI Monitor Cable	0B47070	*ann*	*05/22/12*
Lenovo HDMI to VGA Monitor Cable	0B47069	*ann*	*06/26/12*
Lenovo USB-to-DVI Monitor Adapter	45K5296	*ann*	*05/12/09*
Kensington MicroSaver Cable Lock	73P2582	*ann*	*12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann*	*09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann*	*08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann*	*09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

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

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

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

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

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