Lenovo® ThinkPad L430
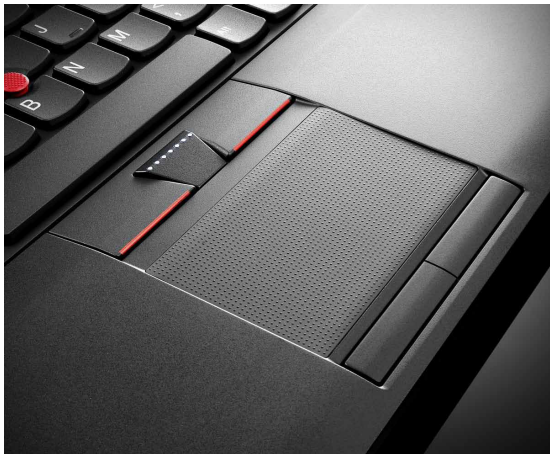
Lenovo ThinkPad L430

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ThinkPad L430 2468 (TopSeller)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Card slot	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Ann Date (mm/yy)
2468-34G	i3-2370M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	None	Finger	BT	6	Pro 64	06/12
2468-35G	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	None	Finger	BT	6	Pro 64	06/12
2468-36G	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	TP 11b/g/n	Ericsson	selectable	None	Finger	BT	6	Pro 64	06/12
2468-37G	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2200	WWAN upg	None	None	Finger	BT	6	Pro 64	07/12
2468-3HG	i3-2328M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Pro 64	09/12
2468-3MG	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2200	WWAN upg	None	Express 54	Finger	BT	6	Pro 64	09/12
2468-3LG	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	TP 11b/g/n	Ericsson	selectable	Express 54	Finger	BT	6	Pro 64	09/12
2468-3KG	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Pro 64	09/12
2468-3JG	i3-2370M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Pro 64	09/12

• *Small and medium business (SMB) model(s), part of the WE TopSeller™ Program*

Positioning	*Mainstream business performance; two spindles*
Processor	**Intel® Core™ i3-2328M processor (2 cores, 2.20GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i3-2370M processor (2 cores, 2.40GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 3000** or **4000** in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None
Dimensions[3] Weight[2] Case material Battery - type Battery - life[10]	*14.0W" (WxDxH):* 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm *6-cell:* from 5.11 lb (2.32kg); *9-cell:* from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication *6-cell (57Whr):* up to 7.5 hr; *9-cell (94Whr):* up to 12.3 hr
Chipset ExpressCard Smart Card read Multicard Reader Ports	**Mobile Intel HM76 Express Chipset** *Some:* One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
PCIe Mini Card PCIe WLAN[4] PCIe WWAN SIM card Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Two PCI Express Mini Card slots *Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 *Some:* Wireless WAN upgradable *Some:* Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS *Some:* User selectable, contract required with service provider None Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
Genuine Windows® 7
Professional 64

Ready to install applications[14] (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications[14] (only some listed)
- Lenovo Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

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

See footnotes for more detailed information

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Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Card slot	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Ann Date (mm/yy)
2468-3CG	i3-2328M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win8 Pro64	10/12
2468-3DG	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2200	WWAN upg	None	Express 54	Finger	BT	6	Win8 Pro64	10/12
2468-3EG	i3-3110M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win8 Pro64	10/12
2468-3FG	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win8 Pro64	10/12
2468-3GG	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	TP 11b/g/n	Ericsson	selectable	Express 54	Finger	BT	6	Win8 Pro64	10/12
2468-3SG	i3-2328M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	10/12
2468-3RG	i3-3110M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	10/12
2468-3QG	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	10/12
2468-3PG	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2200	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	10/12
2468-3NG	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	TP 11b/g/n	Ericsson	selectable	Express 54	Finger	BT	6	Win7 Pro64	10/12
2468-4CG	i5-2520M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	01/13

- *Small and medium business (SMB) model(s), part of the WE TopSeller™ Program*

Positioning	*Mainstream business performance; two spindles*
Processor	**Intel® Core™ i3-2328M processor (2 cores, 2.20GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology
	Intel Core i3-3110M processor (2 cores, 2.40GHz, 3MB cache), **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology
	Intel Core i5-2520M processor (2 cores, 2.50GHz, 3MB cache), **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
	Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 3000** or **4000** in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass
Touch pad	UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
ThinkLight™	None
Dimensions[3]	*14.0W" (WxDxH):* 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm
Weight[2]	*6-cell:* from 5.11 lb (2.32kg); *9-cell:* from 5.48 lb (2.49kg)
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type	Lithium Ion 6-cell or 9-cell, HW Authentication
Battery - life[10]	*6-cell (57Whr):* up to 7.5 hr; *9-cell (94Whr):* up to 12.3 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	One slot (ExpressCard/34, ExpressCard/54)
Smart Card read	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2
PCIe WWAN	*Some:* Wireless WAN upgradable *Some:* Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS
SIM card	*Some:* User selectable, contract required with service provider
Modem	None
Bluetooth™	Bluetooth 4.0 wireless
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Intel AMT	None
Audio support	HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, 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	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications[5] (only some listed)

- **Windows 7 models**
- Lenovo® Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- ThinkVantage Power Manager
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

- **Windows 8 models**
- Lenovo Support
- Lenovo Companion
- Lenovo QuickLaunch
- AccuWeather
- PC Device Stage
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- **All models**
- Lenovo Solution Center
- Password Manager
- ThinkVantage System Update
- Fingerprint Software (fingerprint models)
- Lenovo Cloud Storage by SugarSync
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Supports ThinkVantage® technologies

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

See footnotes for more detailed information

ThinkPad L430 2468 (TopSeller) - Windows 8 - II

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Card slot	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Ann Date (mm/yy)
2468-5AG	i3-3120M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	03/13
2468-59G	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	03/13
2468-58G	i5-3230M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2200	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	03/13
2468-57G	i5-3230M	4GBx1	14.0" HD+	720p	500G 7200	TP 11b/g/n	Ericsson	selectable	Express 54	Finger	BT	6	Win7 Pro64	03/13
2468-56G	i5-2520M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win8 Pro64	03/13
2468-55G	i3-3120M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win8 Pro64	03/13
2468-54G	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win8 Pro64	03/13
2468-53G	i5-3230M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2200	WWAN upg	None	Express 54	Finger	BT	6	Win8 Pro64	03/13
2468-52G	i5-3230M	4GBx1	14.0" HD+	720p	500G 7200	TP 11b/g/n	Ericsson	selectable	Express 54	Finger	BT	6	Win8 Pro64	03/13
2468-6MG	i5-3230M	4GBx1	14.0" HD+	720p	180G SSD	TP 11b/g/n	Ericsson	selectable	Express 54	None	BT	6	Win7 Pro64	06/13
2468-6LG	i5-3230M	4GBx1	14.0" HD+	720p	180G SSD	TP 11b/g/n	Ericsson	selectable	Express 54	None	BT	6	Win8 Pro64	06/13
2468-6FG	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	None	BT	6	Win7 Pro64	06/13
2468-6EG	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	None	BT	6	Win8 Pro64	06/13
2468-6DG	i5-3230M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2200	WWAN upg	None	Express 54	None	BT	6	Win7 Pro64	06/13
2468-6CG	i5-3230M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2200	WWAN upg	None	Express 54	None	BT	6	Win8 Pro64	06/13
2468-6BG	i5-3230M	4GBx1	14.0" HD+	720p	500G 7200	TP 11b/g/n	Ericsson	selectable	Express 54	None	BT	6	Win7 Pro64	06/13
2468-6AG	i5-3230M	4GBx1	14.0" HD+	720p	500G 7200	TP 11b/g/n	Ericsson	selectable	Express 54	None	BT	6	Win8 Pro64	06/13
2468-69G	i5-3230M	4GBx1	14.0" HD+	720p	180G SSD	TP 11b/g/n	Ericsson	selectable	Express 54	Finger	BT	6	Win7 Pro64	06/13
2468-68G	i5-3230M	4GBx1	14.0" HD+	720p	180G SSD	TP 11b/g/n	Ericsson	selectable	Express 54	Finger	BT	6	Win8 Pro64	06/13

Positioning	*Mainstream business performance; two spindles*
Processor	**Intel® Core™ i3-3120M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Hyper-Threading technology **Intel Core i5-2520M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 3000** or **4000** in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass
Touch pad	UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
ThinkLight™	None
Dimensions[3]	*14.0W" (WxDxH):* 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm
Weight[2]	*6-cell:* from 5.11 lb (2.32kg); *9-cell:* from 5.48 lb (2.49kg)
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type	Lithium Ion 6-cell or 9-cell, HW Authentication
Battery - life[10]	*6-cell (57Whr):* up to 7.5 hr; *9-cell (94Whr):* up to 12.3 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	One slot (ExpressCard/34, ExpressCard/54)
Smart Card read	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2
PCIe WWAN	*Some:* Wireless WAN upgradable *Some:* Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS
SIM card	*Some:* User selectable, contract required with service provider
Modem	None
Bluetooth™	Bluetooth 4.0 wireless
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Intel AMT	None
Audio support	HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, 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:* AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications[5] (only some listed)

- **Windows 7 models**
  - Lenovo® Message Center Plus
  - ThinkVantage Product Recovery
  - Access Connections™
  - ThinkVantage Power Manager
  - Lenovo SimpleTap
  - Adobe® Reader®
  - Windows Live™ Essentials
  - Corel® WinDVD® (DVD±RW)
  - Corel Burn.Now™ Lenovo Edition (DVD±RW)
  - Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

- **Windows 8 models**
  - Lenovo Support
  - Lenovo Companion
  - Lenovo QuickLaunch
  - AccuWeather
  - PC Device Stage
  - Cyberlink Power2Go (DVD±RW)
  - Cyberlink PowerProducer (DVD±RW)

- **All models**
  - Lenovo Solution Center
  - Password Manager
  - ThinkVantage System Update
  - Fingerprint Software (fingerprint models)
  - Lenovo Cloud Storage by SugarSync
  - Microsoft® Office preloaded; purchase a product key to activate
  - Norton™ Internet Security (30 days of virus definitions)

Supports ThinkVantage® technologies

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

See footnotes for more detailed information

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Card slot	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Ann Date (mm/yy)
2468-6KG	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	None	BT	6	Win7 Pro64	06/13
2468-6JG	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	None	BT	6	Win8 Pro64	06/13
2468-67G	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	06/13
2468-66G	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	Finger	BT	6	Win8 Pro64	06/13
2468-6HG	i3-3120M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	None	BT	6	Win7 Pro64	06/13
2468-6GG	i3-3120M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n	WWAN upg	None	Express 54	None	BT	6	Win8 Pro64	06/13

- *Small and medium business (SMB) model(s), part of the WE TopSeller™ Program*

Positioning	*Mainstream business performance; two spindles*
Processor	**Intel® Core™ i3-3120M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Hyper-Threading technology
	Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 4000** in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass
Touch pad	UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
ThinkLight™	None
Dimensions[3]	*14.0W" (WxDxH):* 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm
Weight[2]	*6-cell:* from 5.11 lb (2.32kg); *9-cell:* from 5.48 lb (2.49kg)
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type	Lithium Ion 6-cell or 9-cell, HW Authentication
Battery - life[10]	*6-cell (57Whr):* up to 7.5 hr; *9-cell (94Whr):* up to 12.3 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	One slot (ExpressCard/34, ExpressCard/54)
Smart Card read	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1
PCIe WWAN	Wireless WAN upgradable
SIM card	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Intel AMT	None
Audio support	HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, 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:* AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications[5] (only some listed)

- **Windows 7 models**
- Lenovo® Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- ThinkVantage Power Manager
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

- **Windows 8 models**
- Lenovo Support
- Lenovo Companion
- Lenovo QuickLaunch
- AccuWeather
- PC Device Stage
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- **All models**
- Lenovo Solution Center
- Password Manager
- ThinkVantage System Update
- Fingerprint Software (fingerprint models)
- Lenovo Cloud Storage by SugarSync
- Microsoft® Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

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

See footnotes for more detailed information

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8]	rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Smart Card Reader	Card slot	Finger print reader	Blue-tooth	Bat-tery cells	Workhorse (W) Global (G)		Pre-load	Ann Date (mm/yy)
2465-33G	i5-3360M	4GBx1	14.0" HD	720p	500G	7200	Intel 6205[28]	WWAN upg	None	Smart	Exp 54	Finger	BT	6	W	G	Pro 64	06/12
2465-32G	i5-3320M	4GBx1	14.0" HD	720p	320G	7200	Intel 6205	WWAN upg	None	Smart	Exp 54	Finger	BT	6	W	G	Pro 64	06/12
2465-29G	i5-3360M	4GBx1	14.0" HD+	720p	500G	7200	Intel 6205	WWAN upg	None	None	Exp 54	Finger	BT	*9*		G	Pro 64	06/12
2465-2AG	i5-3320M	4GBx1	14.0" HD	720p	500G	7200	Intel 6205	WWAN upg	None	None	Exp 54	Finger	BT	6		G	Pro 64	06/12
2465-2BG	i5-3360M	4GBx1	14.0" HD	720p	320G	7200	Intel 6205	WWAN upg	None	None	Exp 54	Finger	BT	6		G	Pro 64	06/12
2465-2CG	i5-3320M	4GBx1	14.0" HD	No	320G	7200	Intel 2200	WWAN upg	None	None	Exp 54	None	BT	6		G	Pro 64	06/12
2465-2DG	i5-3360M	4GBx1	14.0" HD+	720p	320G	7200	Intel 6205	WWAN upg	None	None	Exp 54	Finger	BT	*9*		G	Pro 64	06/12
2465-2EG	i5-3320M	4GBx1	14.0" HD	720p	320G	7200	Intel 6205	WWAN upg	None	None	Exp 54	Finger	BT	6		G	Pro 64	06/12
2465-2FG	i5-3320M	4GBx1	14.0" HD	720p	320G	7200	Intel 6205	WWAN upg	None	None	Exp 54	None	No	6		G	Pro 64	06/12
2465-5WG	i5-2520M	4GBx1	14.0" HD+	720p	500G	7200	Intel 2200	Ericsson	selectable	None	Exp 54	Finger	BT	6			Pro 64	10/12
2465-5VG	i5-2520M	4GBx1	14.0" HD+	720p	500G	7200	Intel 2200	WWAN upg	None	Smart	Exp 54	Finger	BT	6			Pro 64	10/12
2465-5UG	i5-2520M	4GBx1	14.0" HD	720p	500G	7200	Intel 2200	WWAN upg	None	None	Exp 54	Finger	BT	6			Pro 64	10/12
2465-5TG	i5-2520M	4GBx1	14.0" HD	720p	320G	7200	Intel 2200	WWAN upg	None	None	Exp 54	Finger	BT	6			Pro 64	10/12
2465-5SG	i5-2520M	2GBx1	14.0" HD	720p	320G	7200	TP 11b/g/n	None	None	None	None	Finger	BT	6			Pro 64	10/12
2465-5RG	i5-2520M	4GBx1	14.0" HD	720p	320G	7200	TP 11b/g/n	None	None	None	Exp 54	Finger	BT	6			Pro 64	10/12
2465-5QG	i5-2520M	4GBx1	14.0" HD	720p	500G	7200	TP 11b/g/n	None	None	None	Exp 54	Finger	BT	6			Pro 64	10/12
2465-5PG	i5-2520M	2GBx1	14.0" HD	720p	320G	7200	TP 11b/g/n	None	None	None	Exp 54	Finger	BT	6			Pro 64	10/12

Positioning	*Mainstream business performance; two spindles*
Processor	**Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology **Intel Core i5-3360M processor (2 cores, 2.80GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Camera	*Some:* HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 3000** or **4000** in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass
Touch pad	UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
ThinkLight™	None
Dimensions[3]	*14.0W" (WxDxH):* 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm
Weight[2]	*6-cell:* from 5.11 lb (2.32kg); *9-cell:* from 5.48 lb (2.49kg)
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type	Lithium Ion 6-cell or 9-cell, HW Authentication
Battery - life[10]	*6-cell (57Whr):* up to 7.5 hr; *9-cell (94Whr):* up to 12.3 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	*Some:* One slot (ExpressCard/34, ExpressCard/54)
Smart Card read	*Some:* Smart Card reader
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 *Some:* 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2
PCIe WWAN	*Some:* Wireless WAN upgradable *Some:* Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS
SIM card	*Some:* User selectable, contract required with service provider
Modem	None
Bluetooth™	*Some:* Bluetooth 4.0 wireless
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Intel AMT	None
Audio support	HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, 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:* AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip

Limited warranty[12] **3-years**/1-yr battery - depot repair service / service upgrades[22] available

Preloaded operating system[20]
Genuine Windows® 7
Professional 64

Ready to install applications[14] (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications[14] (only some listed)
- Lenovo Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

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

See footnotes for more detailed information

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Finger print reader	Blue-tooth	Bat-tery cells	Global GMP (G) (P)	Preload	Ann Date (mm/yy)
2465-62G	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	Intel 6205[28]	WWAN upg	None	Finger	BT	6	G	Win8 Pro64	10/12
2465-65G	i5-3320M	4GBx1	14.0" HD	None	320G 7200	Intel 2200	WWAN upg	None	None	No	6	G	Win8 Pro64	10/12
2465-63G	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	None	Finger	BT	6	G	Win8 Pro64	10/12
2465-64G	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	Intel 6205	WWAN upg	None	Finger	BT	6	G	Win8 Pro64	10/12

- *A depot repair service 3-year limited warranty*

Positioning	*Mainstream business performance; two spindles*
Processor	**Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology **Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Camera	*Some:* HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 4000** in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass
Touch pad	UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
ThinkLight™	None
Dimensions[3]	*14.0W" (WxDxH):* 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm
Weight[2]	*6-cell:* from 5.11 lb (2.32kg); *9-cell:* from 5.48 lb (2.49kg)
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type	Lithium Ion 6-cell or 9-cell, HW Authentication
Battery - life[10]	*6-cell (57Whr):* up to 7.5 hr; *9-cell (94Whr):* up to 12.3 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	None
Smart Card read	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 *Some:* 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2
PCIe WWAN	Wireless WAN upgradable
SIM card	None
Modem	None
Bluetooth™	*Some:* Bluetooth 4.0 wireless
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Intel AMT	None
Audio support	HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, 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:* AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip
Limited warranty[12]	**3-years**/1-yr battery - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows® 8 Pro 64-bit

Preloaded applications[5] (only some listed)

- **Windows 7 models**
- Lenovo® Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- ThinkVantage Power Manager
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

- **Windows 8 models**
- Lenovo Support
- Lenovo Companion
- Lenovo QuickLaunch
- AccuWeather
- PC Device Stage
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- **All models**
- Lenovo Solution Center
- Password Manager
- ThinkVantage System Update
- Fingerprint Software (fingerprint models)
- Lenovo Cloud Storage by SugarSync
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Skype™

Supports ThinkVantage® technologies

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

See footnotes for more detailed information

ThinkPad L430 2465 (Optimus)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm		PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Card slot	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Ann Date (mm/yy)
2465-5YG	i5-2520M	4GBx1	14.0" HD+	720p	500G	7200	Intel 6205[28]	None	Express 54	Finger	BT	6	Pro 64	10/12
2465-5XG	i5-2520M	4GBx1	14.0" HD	720p	500G	7200	Intel 6205	None	Express 54	Finger	BT	6	Pro 64	10/12

- ***A depot repair service 3-year limited warranty***

Positioning	*Mainstream business performance; two spindles*
Processor	**Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 3000** in processor, and **NVIDIA NVS™ 5400M**, PCI Express® x16, **1GB** memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; *Maximum external resolution:* 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass
Touch pad	UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
ThinkLight™	None
Dimensions[3]	*14.0W" (WxDxH):* 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm
Weight[2]	*6-cell:* from 5.16 lb (2.34kg); *9-cell:* from 5.52 lb (2.51kg)
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type	Lithium Ion 6-cell or 9-cell, HW Authentication
Battery - life[10]	*6-cell (57Whr):* up to 5.6 hr; *9-cell (94Whr):* up to 9.3 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	One slot (ExpressCard/34, ExpressCard/54)
Smart Card read	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2
PCIe WWAN	None
SIM card	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Intel AMT	None
Audio support	HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, 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	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip
Limited warranty[12]	**3-years**/1-yr battery - depot repair service / service upgrades[22] available

Preloaded operating system[20]
Genuine Windows® 7 Professional 64

Ready to install applications[14] (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications[14] (only some listed)
- Lenovo Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

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

See footnotes for more detailed information

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8]	rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Smart Card Reader	Card slot	Finger print reader	Blue-tooth	Bat-tery cells	Workhorse (W) Global (G) GMP (P)			Pre-load	Ann Date (mm/yy)
2466-33G	i5-3360M	4GBx1	14.0" HD	720p	500G	7200	Intel 6205[28]	WWAN upg	Smart	Exp 54	Finger	BT	6	W	G	P	Pro 64	06/12
2466-32G	i5-3320M	4GBx1	14.0" HD	720p	320G	7200	Intel 6205	WWAN upg	Smart	Exp 54	Finger	BT	6	W	G	P	Pro 64	06/12
2466-3BG	i5-3360M	4GBx1	14.0" HD+	720p	500G	7200	Intel 6205	WWAN upg	None	Exp 54	Finger	BT	*9*		G	P	Pro 64	06/12
2466-3CG	i5-3320M	4GBx1	14.0" HD	720p	500G	7200	Intel 6205	WWAN upg	None	Exp 54	Finger	BT	6		G	P	Pro 64	06/12
2466-3DG	i5-3360M	4GBx1	14.0" HD	720p	320G	7200	Intel 6205	WWAN upg	None	Exp 54	Finger	BT	6		G	P	Pro 64	06/12
2466-3EG	i5-3360M	4GBx1	14.0" HD+	720p	320G	7200	Intel 6205	WWAN upg	None	Exp 54	Finger	BT	*9*		G	P	Pro 64	06/12
2466-3FG	i5-3320M	4GBx1	14.0" HD	720p	320G	7200	Intel 6205	WWAN upg	None	Exp 54	Finger	BT	6		G	P	Pro 64	06/12

• *Part of the Global Models Plus program with limited onsite service[24] 3-year limited warranty*

Positioning	*Mainstream business performance; two spindles*
Processor	**Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology **Intel Core i5-3360M processor (2 cores, 2.80GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 4000** in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None
Dimensions[3] Weight[2] Case material Battery - type Battery - life[10]	*14.0W" (WxDxH):* 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm *6-cell:* from 5.11 lb (2.32kg); *9-cell:* from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication *6-cell (57Whr):* up to 7.5 hr; *9-cell (94Whr):* up to 12.3 hr
Chipset ExpressCard Smart Card read Multicard Reader Ports	**Mobile Intel HM76 Express Chipset** One slot (ExpressCard/34, ExpressCard/54) *Some:* Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
PCIe Mini Card PCIe WLAN[4] PCIe WWAN SIM card Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural 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 AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip
Limited warranty[12]	**3-years**/1-year battery, **limited onsite service**[24], 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an addtional next business day for service dispatch / service upgrades available

Preloaded operating system[20]
Genuine Windows® 7
Professional 64

Ready to install applications[14] (only some listed)
• Rescue and Recovery™
• Password Manager

Preloaded applications[14] (only some listed)
• Lenovo Message Center Plus
• ThinkVantage Product Recovery
• Access Connections™
• Fingerprint Software (fingerprint models)
• ThinkVantage System Update
• ThinkVantage Power Manager
• Microsoft® Office preloaded; purchase a product key to activate
• Norton™ Internet Security 2012 (30 days of virus definitions)
• Adobe® Reader®
• Skype™ for Windows
• Windows Live™ Essentials
• Corel® WinDVD® (DVD±RW)
• Corel Burn.Now™ Lenovo Edition (DVD±RW)
• Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

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

See footnotes for more detailed information

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Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8]	rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Finger print reader	Blue-tooth	Bat-tery cells	Global (G) GMP (P)	Preload	Ann Date (mm/yy)
2466-62G	i7-3520M	4GBx1	14.0" HD+	720p	500G	7200	Intel 6205[28]	WWAN upg	None	Finger	BT	6	G P	Win8 Pro64	10/12
2466-63G	i5-3320M	4GBx1	14.0" HD	720p	320G	7200	Intel 6205	WWAN upg	None	Finger	BT	6	G P	Win8 Pro64	10/12
2466-64G	i5-3320M	4GBx1	14.0" HD	720p	500G	7200	Intel 6205	WWAN upg	None	Finger	BT	6	G P	Win8 Pro64	10/12

- *Part of the Global Models Plus program with limited onsite service[24] 3-year limited warranty*

Positioning	*Mainstream business performance; two spindles*
Processor	**Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology **Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in *Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 4000** in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None
Dimensions[3] Weight[2] Case material Battery - type Battery - life[10]	*14.0W" (WxDxH):* 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm *6-cell:* from 5.11 lb (2.32kg); *9-cell:* from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication *6-cell (57Whr):* up to 7.5 hr; *9-cell (94Whr):* up to 12.3 hr
Chipset ExpressCard Smart Card read Multicard Reader Ports	**Mobile Intel HM76 Express Chipset** None None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
PCIe Mini Card PCIe WLAN[4] PCIe WWAN SIM card Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural 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 AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip
Limited warranty[12]	**3-years**/1-year battery, **limited onsite service**[24], 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an addtional next business day for service dispatch / service upgrades available

Preloaded operating system[20]
- Windows® 8 Pro 64-bit

Preloaded applications[5] (only some listed)

- Windows 7 models
- Lenovo® Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- ThinkVantage Power Manager
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live™ Essentials
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo QuickLaunch
- AccuWeather
- PC Device Stage
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

- All models
- Lenovo Solution Center
- Password Manager
- ThinkVantage System Update
- Fingerprint Software (fingerprint models)
- Lenovo Cloud Storage by SugarSync
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Supports ThinkVantage® technologies

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

See footnotes for more detailed information