

ThinkPad Edge S430



Lenovo® ThinkPad Edge S430



Lenovo ThinkPad Edge S430



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Lenovo ThinkPad Edge S430

# ThinkPad Edge S430 3364 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	SIM card	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Ann Date (mm/yy)
3364-3DG	i7-3520M	4GBx2	14.0" HD+	720p	500G 7200	Intel 2230	Ericsson	Lenovo	Finger	BT	4	Pro 64	06/12

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles <b>Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology										<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64		
Memory	16GB max <sup>7</sup> / 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										<b>Ready to install applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Password Manager		
Optical SATA disk	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ <i>All:</i> removable, upgradable, Shock Mounted Hard Drive										<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • TrueSuite™ (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo Cloud Storage by SugarSync • Lenovo SimpleTap • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Intel Small Business Advantage • RapidBoot HDD Accelerator • Symantec™ VIP • Windows Live™ Essentials • Microsoft Office preloaded; purchase a product key to activate		
mSATA™ SSD	None												
Widescreen display	<i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some:</i> <b>14.0"</b> (355mm) <b>HD+ (1600x900) color,</b> anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio												
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus												
Graphics	<b>Intel HD Graphics 4000</b> in processor, supports external digital monitor via mini-HDMI™ (HDCP-compliant) or Mini DisplayPort; supports dual independent display; <i>Max external resolution:</i> 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200 (HDMI via optional mini-HDMI cable)@60Hz; 2048x1536 (VGA)@75Hz												
Keyboard	6-row, spill-resistant, multimedia Fn keys												
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar <sup>13</sup>												
Touchpad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch												
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions												
Dimensions <sup>3</sup>	<b>14.0W" (WxDxH):</b> 13.82" x 9.37" x 0.87-0.95"; 351mm x 238mm x 22.2-24.2mm												
Weight <sup>2</sup>	<b>4-cell:</b> from 3.97 lb (1.8kg)												
Case color	Mocha black (top), trimmed with a thin silver band (side); black bottom												
Case material	<i>Display cover:</i> Magnesium/Aluminum; <i>Bottom:</i> Magnesium/Aluminum												
Battery - type <sup>37</sup>	Integrated Lithium Polymer 4-cell												
Battery - life <sup>10</sup>	<b>4-cell (48.8Whr):</b> up to 7.0 hr												
Chipset	<b>Mobile Intel HM77 Express Chipset</b>												
ExpressCard	None												
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)												
Ports	Two USB 3.0, ethernet (RJ-45), one mini-HDMI, one Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i5 discrete models and i7 models, switch via BIOS)												
PCIe Mini Card	Two PCI Express Mini Card slots												
PCIe WLAN <sup>4</sup>	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter												
PCIe WWAN	Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS												
SIM card	<i>Some:</i> Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required												
Modem	None												
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
Ethernet	Realtek® RTL8111F Gigabit Network Connection												
Intel AMT	None										Supports ThinkVantage® technologies		
Audio support	HD Audio, Realtek ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/mic jack										65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant		
Security	Power-on password, hard disk password, supervisor password, security keyhole										International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>		
Security chip	Trusted Platform Module, TCG 1.2-compliant												
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, supports the security chip												
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available												

See footnotes for more detailed information  
WE model(s) announced June 19, 2012

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(G-PET1-1) July 2012

# ThinkPad Edge S430 3364 (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB <sup>5</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	SIM card	Finger print reader	Blue-tooth	Battery cells	Preload	Ann Date (mm/yy)
3364-5HG	i7-3520M	4GBx2	14.0" HD+	720p	500G 7200	Intel 2230	Ericsson	Lenovo	Finger	BT	4	Win7 Pro64	10/12
3364-57G	i7-3520M	4GBx2	14.0" HD+	720p	500G 7200	Intel 2230	Ericsson	Lenovo	Finger	BT	4	Win8 Pro64	10/12

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology										<b>Preloaded operating system<sup>20</sup></b> - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit  <b>Preloaded applications (only some listed)</b> - <b>Windows 7 models</b> • Access Connections™ • ThinkVantage Power Manager • ThinkVantage Tools • Lenovo SimpleTap • Adobe® Reader®  - <b>Windows 8 models</b> • Lenovo Support • Lenovo Companion • Lenovo Mobile Access • Lenovo Cloud Storage  - <b>All models</b> • ThinkVantage System Update • Norton™ Internet Security (30 days of virus definitions) • Skype™ • Microsoft Office preloaded; purchase a product key to activate
Memory	16GB max <sup>7</sup> / 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, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ <i>All:</i> removable, upgradable, Shock Mounted Hard Drive										
mSATA™ SSD	None										
Widescreen display	<i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some:</i> <b>14.0"</b> (355mm) <b>HD+ (1600x900) color,</b> anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio										
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus										
Graphics	<b>Intel HD Graphics 4000</b> in processor, supports external digital monitor via mini-HDMI™ (HDCP-compliant) or Mini DisplayPort; supports dual independent display; <i>Max external resolution:</i> 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200 (HDMI via optional mini-HDMI cable)@60Hz; 2048x1536 (VGA)@75Hz										
Keyboard TrackPoint®	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar <sup>13</sup>										
Touchpad ThinkLight™	UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch Illuminates the keyboard to improve visibility in low-light conditions										
Dimensions <sup>3</sup>	<b>14.0W" (WxDxH):</b> 13.82" x 9.37" x 0.87-0.95"; 351mm x 238mm x 22.2-24.2mm										
Weight <sup>2</sup>	<b>4-cell:</b> from 3.97 lb (1.8kg)										
Case color	Mocha black (top), trimmed with a thin silver band (side); black bottom										
Case material	<i>Display cover:</i> Magnesium/Aluminum; <i>Bottom:</i> Magnesium/Aluminum										
Battery - type <sup>37</sup>	Integrated Lithium Polymer 4-cell										
Battery - life <sup>10</sup>	<b>4-cell (48.8Whr):</b> up to 6.0 hr										
Chipset	<b>Mobile Intel HM77 Express Chipset</b>										
ExpressCard	None										
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)										
Ports	Two USB 3.0, ethernet (RJ-45), one mini-HDMI, one Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i5 discrete models and i7 models, switch via BIOS)										
PCIe Mini Card	Two PCI Express Mini Card slots										
PCIe WLAN <sup>4</sup>	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter										
PCIe WWAN	Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS										
SIM card	<i>Some:</i> Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required										
Modem	None										
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										
Ethernet	Realtek® RTL8111F Gigabit Network Connection										
Intel AMT	None										
Audio support	HD Audio, Realtek ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, 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, supports the security chip										
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available										
											Supports ThinkVantage® technologies
											65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>

See footnotes for more detailed information  
WE model(s) announced October 23, 2012

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# ThinkPad Edge S430 3364 (Optimus) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB <sup>5</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Ann Date (mm/yy)
3364-3EG	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2230	16GB mSATA	Finger	BT	4	Prem 64	06/12

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles <b>Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000</b> , dual-channel capable, two 204-pin SO-DIMM sockets DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology										Preloaded operating system <sup>20</sup> Genuine Windows® 7 Home Premium 64
Memory	16GB max <sup>7</sup> / 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										Ready to install applications <sup>14</sup> (only some listed) • Rescue and Recovery™ • Password Manager
Optical SATA disk	DVD burner, 9.5mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, Shock Mounted Hard Drive										Preloaded applications <sup>14</sup> (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • TrueSuite™ (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo Cloud Storage by SugarSync • Lenovo SimpleTap • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Intel Small Business Advantage • RapidBoot HDD Accelerator • Symantec™ VIP • Windows Live™ Essentials • Microsoft Office preloaded; purchase a product key to activate
mSATA™ SSD	mSATA Solid State Drive (SSD), via PCIe Mini Card slot										
Widescreen display	Some: <b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: <b>14.0"</b> (355mm) <b>HD+ (1600x900) color</b> , anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 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, <b>Intel HD Graphics 4000</b> in processor, and <b>NVIDIA GeForce® GT 620M</b> , PCI Express® x16, <b>2GB</b> memory, supports external digital monitor via mini-HDMI™ (HDCP-compliant) or Mini DisplayPort; supports dual independent display; Max external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200 (HDMI via optional mini-HDMI cable)@60Hz; 2048x1536 (VGA)@85Hz										
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch Illuminates the keyboard to improve visibility in low-light conditions										
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material	14.0W" (WxDxH): 13.82" x 9.37" x 0.87-0.95"; 351mm x 238mm x 22.2-24.2mm 4-cell: from 3.97 lb (1.8kg) Mocha black (top), trimmed with a thin silver band (side); black bottom Display cover : Magnesium/Aluminum; Bottom: Magnesium/Aluminum										
Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Integrated Lithium Polymer 4-cell 4-cell (48.8Whr): up to 6.0 hr										
Chipset ExpressCard Multicard Reader Ports	<b>Mobile Intel HM77 Express Chipset</b> None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, ethernet (RJ-45), one mini-HDMI, one Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i5 discrete models and i7 models, switch via BIOS)										
PCIe Mini Card PCIe WLAN <sup>4</sup> PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter None None None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/mic jack										
Security Security chip Fingerprint reader Limited warranty <sup>12</sup>	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, supports the security chip <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available										90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>

See footnotes for more detailed information  
WE model(s) announced June 19, 2012

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(G-PET1-2) June 2012

# ThinkPad Edge S430 3364 (Optimus) - TopSeller (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB <sup>8</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	SIM card	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Ann Date (mm/yy)
3364-5JG	i7-3520M	4GBx2	14.0" HD+	720p	128G SSD	Intel 2230	Ericsson	Lenovo	Finger	BT	4	Win7 Pro64	10/12
3364-58G	i7-3520M	4GBx2	14.0" HD+	720p	128G SSD	Intel 2230	Ericsson	Lenovo	Finger	BT	4	Win8 Pro64	10/12
3364-56G	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	Intel 2230	16GB	None	Finger	BT	4	Win8 64	10/12
3364-7AG	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	TP 11a/b/g/n	None	None	Finger	BT	4	Win7 Pro64	03/13

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> <b>Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology <b>Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology										<b>Preloaded operating system<sup>20</sup></b> - <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max <sup>7</sup> / 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										- <i>Some:</i> Windows 8 64-bit - <i>Some:</i> Windows 8 Pro 64-bit
Optical SATA disk	DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ <i>All:</i> removable, upgradable, Shock Mounted Hard Drive										<b>Preloaded applications (only some listed)</b> - <b>Windows 7 models</b> • Access Connections™ • ThinkVantage Power Manager • ThinkVantage Tools • Lenovo SimpleTap • Adobe® Reader®  - <b>Windows 8 models</b> • Lenovo Support • Lenovo Companion • Lenovo Mobile Access • Lenovo Cloud Storage  - <b>All models</b> • ThinkVantage System Update • Norton™ Internet Security (30 days of virus definitions) • Skype™ • Microsoft Office preloaded; purchase a product key to activate
mSATA™ SSD	<i>Some:</i> 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot										
Widescreen display	<i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) color, VibrantView</b> (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some:</i> <b>14.0"</b> (355mm) <b>HD+ (1600x900) color,</b> anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 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, <b>Intel HD Graphics 4000</b> in processor, and <b>NVIDIA GeForce® GT 620M,</b> PCI Express® x16, <b>2GB</b> memory, supports external digital monitor via mini-HDMI™ (HDCP-compliant) or Mini DisplayPort; supports dual independent display; <i>Max external resolution:</i> 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200 (HDMI via optional mini-HDMI cable)@60Hz; 2048x1536 (VGA)@85Hz										
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch Illuminates the keyboard to improve visibility in low-light conditions										
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material	<i>14.0W" (WxDxH):</i> 13.82" x 9.37" x 0.87-0.95"; 351mm x 238mm x 22.2-24.2mm <i>4-cell:</i> from 3.97 lb (1.8kg) Mocha black (top), trimmed with a thin silver band (side); black bottom <i>Display cover :</i> Magnesium/Aluminum; <i>Bottom:</i> Magnesium/Aluminum										
Battery - type <sup>37</sup> Battery - life <sup>10</sup>	Integrated Lithium Polymer 4-cell <i>4-cell (48.8Whr):</i> up to 5.0 hr										
Chipset ExpressCard Multicard Reader Ports	<b>Mobile Intel HM77 Express Chipset</b> None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, ethernet (RJ-45), one mini-HDMI, one Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i5 discrete models and i7 models, switch via BIOS)										
PCIe Mini Card PCIe WLAN <sup>4</sup>	Two PCI Express Mini Card slots <i>Some:</i> 11a/b/g/n, PCIe Half Mini Card, ThinkPad a/b/g/n, 2x2, Wi-Fi / BT combo adapter <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter										
PCIe WWAN	<i>Some:</i> Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS										
SIM card Modem Bluetooth™ Ethernet Intel AMT Audio support	<i>Some:</i> Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/mic jack										Supports ThinkVantage® technologies
Security Security chip Fingerprint reader Limited warranty <sup>12</sup>	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, supports the security chip <b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available										

See footnotes for more detailed information  
WE model(s) announced October 23, 2012 or March 19, 2013

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