

Country Code"++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

Positioning Processor	<p><i>Sophisticated design with quality, durability and reliability for SMB customers; one spindles</i></p> <p><b>Intel® Core™ i3-4010U processor (2 cores, 1.70GHz, 3MB Cache), Intel HD Graphics 4400,</b> DDR3 memory controller (up to 1600MHz), HT technology</p> <p><b>Intel Core i5-4200U processor (2 cores, 1.60GHz, 3MB cache), Intel HD Graphics 4400,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology</p> <p><b>Intel Core i5-4210U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4400,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology</p> <p><b>Intel Core i7-4500U processor (2 cores, 1.80GHz, 4MB cache), Intel HD Graphics 4400,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology</p> <p><b>Intel Core i7-4510U processor (2 cores, 2.00GHz, 4MB Cache), Intel HD Graphics 4400,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit or Windows 8.1 Pro 64-bit</li> <li>- Some: Windows 8 64-bit</li> <li>- Some: Windows 8 Pro 64-bit</li> <li>- Some: Windows 8.1 64-bit</li> <li>- Some: Windows 8.1 Pro 64-bit</li> </ul> <p><b>Preloaded applications</b> (only some listed for Windows 8)</p> <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage</li> <li>• Password Manager</li> <li>• Fingerprint Software (fingerprint models)</li> <li>• ThinkVantage System Update</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> </ul>
Memory	16GB max <sup>7</sup> / PC3-12800 1600MHz DDR3L, non-parity, two 204-pin SO-DIMM sockets	
Optical SATA disk	None <i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high</i> <i>Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™</i>	
M.2 SSD	<i>Some: M.2 Solid State Drive (SSD), via M.2 Card slot</i>	
Widescreen display	<p><i>Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio</i></p> <p><i>Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio</i></p> <p><i>Some: 15.6" (396mm) FHD (1920x1080), anti-glare, 10-point touch screen</i></p> <p>LED backlight, 300 nits, 16:9 aspect ratio</p>	
Camera	HD720p resolution, low light sensitive, fixed focus, LED indicator	
Graphics	<b>Intel HD Graphics 4400</b> in processor, or <b>AMD Radeon™ HD 8670M Graphics, 2GB memory</b> external digital monitor support via HDMI™; <i>Max external resolution: 1920x1200 (HDMI) @60Hz</i>	
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys, LED backlight, numeric keypad TrackPoint pointing device, Internet Scroll Bar <sup>13</sup> UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch None	
Dimensions <sup>3</sup>	15.6W" (WxDxH): 14.92" x 9.94" x 0.90"; 379.0mm x 252.4mm x 22.8mm	
Weight <sup>2</sup>	4-cell: from 5.20 lb (2.36kg)	
Case color	Black (top); black bottom	
Case material	Sand Blast Aluminum	
Battery - type <sup>37</sup>	Li-Polymer 4-cell (62.8Whr)	
Battery - life <sup>10</sup>	<p>MobileMark 2007: Windows 7: up to 9.0 hr</p> <p>MobileMark 2012: Windows 8: up to 6.0 hr</p>	
Chipset ExpressCard Multicard Reader Ports	<b>Intel 4th Generation core 1 chip</b> (integrated chipset with processor) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one powered), OneLink Docking port external monitor (HDMI), ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN <sup>4</sup>	One PCI Express Mini Card slot <i>Some: 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2</i> <i>Some: 11ac, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + Bluetooth combo adapter, 2x2</i>	
M.2 Card M.2 WWAN SIM card Bluetooth™ Ethernet Audio support	One M.2 Card slot for support of WWAN card or SSD <i>Some: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 Card</i> <i>Some: User selectable, contract required with service provider</i> Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card Realtek® RTL8111GUS Gigabit Network Connection High Definition (HD) Audio, ALC283 codec / JBL® stereo speakers, Dolby® Home Theater® v4 / dual array microphone, 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 Fingerprint reader on palm rest, swipe sensor	
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available	
See footnotes for more detailed information		
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Supports ThinkVantage® technologies

65-watt AC adapter  
ENERGY STAR® 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>