

# ThinkPad Helix 1st Generation Platform Specifications

Product Specifications Reference (PSREF)

Positioning	<i>Convertible design for four modes - Notebook, Stand, Tablet, and Tablet +</i>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Some: Windows® 8 64-bit</li> <li>- Some: Windows 8 Pro 64-bit</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <p><b>- Traditional Desktop apps</b></p> <ul style="list-style-type: none"> <li>• Lenovo® Solution Center</li> <li>• ThinkVantage System Update</li> <li>• Password Manager</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• PC Device Stage</li> <li>• Nitro PDF Reader</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Intel Small Business Advantage</li> </ul> <p><b>- Windows Store apps</b></p> <ul style="list-style-type: none"> <li>• Lenovo Settings</li> <li>• Lenovo Experience</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• AT&amp;T® All Access</li> <li>• Norton™ Internet Security 2013 (30 days of virus definitions)</li> <li>• AccuWeather</li> <li>• Evernote® Skitch (MultiTouch models)</li> <li>• Skype™</li> <li>• Amazon Kindle</li> </ul>
Processor	<b>Intel® Core™ i3-3217U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000</b> , DDR3 memory controller (up to 1600MHz), HT technology <b>Intel Core i5-3317U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000</b> , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology <b>Intel Core i5-3337U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000</b> , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology <b>Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000</b> , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology <b>Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000</b> , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	
Memory	8GB max <sup>7</sup> / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	
Storage	mSATA Solid State Drive (SSD), via PCIe Mini Card slot	
Graphics	<b>Intel HD Graphics 4000</b> in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; <i>Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz</i>	
Display	<b>11.6"</b> (295mm) <b>FHD (1920x1080) TFT color, VibrantView</b> (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution	
Digitizer Pen	<i>Some: Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required, pen holder on Tablet</i> <i>* The models without Digitizer Pen can not support pen input function via optional ThinkPad Helix Digitizer Pen (0A33910)</i>	
Camera	<i>Front camera: 2.0-megapixel, 1080p resolution, fixed focus</i> <i>Rear camera: 5.0-megapixel, 1080p resolution, auto focus</i>	
Video capture	1080p video capture	
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array digital microphone, combo audio/microphone jack	
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, WAV, WMA Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid	
Control buttons Keyboard Dock	Windows button, Power button, volume control button, rotation lock switch, reset switch Keyboard Dock, 6-row spill-resistant keyboard, TrackPoint® pointing device, MultiTouch glass touchpad w/ 5 integrated buttons, landscape stand, security keyhole, two USB 3.0, one Mini DisplayPort, integrated 4-cell battery (Li-Polymer, 28Wh), the 45-watt AC adapter can charge both the Tablet battery and Keyboard Dock battery	
Light sensor G-sensor/ eCompass Gyroscope	Ambient Light Sensor, Capella CM3218 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC 3D gyroscope, STMicroelectronics L3GD20	
Chipset Tablet ports Monitor Cable	<b>Mobile Intel QS77 Express Chipset</b> One USB 2.0, one Mini DisplayPort, SIM card slot, Keyboard Dock connector <i>Some: Mini DisplayPort to VGA Monitor Cable (0A36536)</i>	
WLAN <sup>4</sup> WWAN	11a/b/g/n <sup>28</sup> , PCIe SFF (Small Form Factor) Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 <i>Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), PCIe TFF (Thin Form Factor) Mini Card, WCDMA/HSPA/HSPA+, GPS</i> <i>Some: Wireless WAN, Ericsson® C5621gw Mobile Broadband Module, PCIe TFF (Thin Form Factor) Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS</i>	
Carrier	<i>Some: AT&amp;T® LTE (4G), contract required with service provider</i> <i>Some: User selectable, contract required with service provider</i>	
Bluetooth™ Ethernet NFC Intel AMT Security chip	Bluetooth 4.0 wireless <i>Some: USB 2.0 Ethernet Adapter</i> <i>Some: Near Field Communication, easy for two devices to communicate with each other</i> <i>Some: Intel Active Management Technology (iAMT)</i> Trusted Platform Module, TCG 1.2-compliant	
Dimensions <sup>3</sup>	<i>Tablet only:</i> 11.66" x 7.37" x 0.46"; 296.1mm x 187.3mm x 11.6mm <i>Tablet with Keyboard Dock:</i> 11.66" x 8.90" x 0.80"; 296.1mm x 226mm x 20.4mm	
Weight <sup>2</sup>	<i>Tablet only:</i> from 1.73 lb (0.785kg); <i>Tablet with Keyboard Dock:</i> from 3.54 lb (1.606kg)	
Case color Case material	Black Magnesium + PC/ABS (PolyCarbonate/Acrylonitrile-Butadiene-Styrene)	
Battery - type	<i>Tablet battery:</i> Integrated Lithium Polymer 3-cell battery, 42Whr <i>Keyboard Dock battery:</i> Integrated Lithium Polymer 4-cell battery, 28Whr	
Battery - life <sup>10</sup>	<i>MobileMark® 2012: Tablet only:</i> up to 5.6 hr; <i>Tablet with Keyboard Dock:</i> up to 8.0 hr	
Limited Warranty <sup>12</sup>	<b>3-years/1-yr battery - repair service / service upgrades<sup>22</sup> available</b>	
	45-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

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