

ThinkPad X1 Carbon (4th Gen) Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | Media reader Ports WiGig dock (opt) Monitor cable (optional) Adapter (optional) | MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector WiGig dock, mutually exclusive with WWAN HDMI to VGA: Lenovo HDMI to VGA Monitor Cable mDP to VGA: Lenovo Mini DisplayPort to VGA Monitor Cable OneLink+ to RJ45: ThinkPad OneLink+ to RJ45 adapter OneLink+ to VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter | | | | | | | | | | | | |
|---|--|------------|--------------|----------------|---------------------|-------|--------------|-----------------------|---|--|------------|-----|----------|-----|---------------|-------------|--------|--------|----------------|-------------|--------|--------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | |
| | i5-6200U | 2 | 4 | 2.3 GHz | 2.8 GHz | 3MB | LPDDR3-1866 | Intel HD Graphics 520 | | | | | | | | | | | | | | |
| | i5-6300U | | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | |
| | i7-6500U | | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | |
| i7-6600U | 2.6 GHz | | | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor, external digital monitor support via Mini DisplayPort or HDMI™; supports three independent displays; Max resolution: 3840x2160 (Mini DisplayPort) @60Hz; 4096x2304 (HDMI) @24Hz | | | | | | | | Camera Audio support | HD720p resolution, low light sensitive, fixed focus HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | |
| Chipset Memory | Intel SoC (System on Chip) platform 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets | | | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole, reset switch | | | | | | | | | | | | |
| Multi-touch Hinge | None Normal hinge, 180 degree | | | | | | | | Security chip ThinkEngine | Discrete TPM 1.2 TCG Certified and Firmware TPM 2.0 integrated in chipset Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe) | | | | | | | | vPro (optional) Fingerprint reader | Intel vPro Technology Touch style fingerprint reader on the palm rest | | | | | | | | | | | | |
| Optical | None | | | | | | | | Battery | Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via optional Ethernet (RJ-45) adapter (by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) | | | | | | | | Max battery life ¹⁰ | MobileMark® 2014: 11 hr | | | | | | | | | | | | |
| WLAN ⁴ | One of the following, configurable by model (WiGig is mutually exclusive with WWAN): • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card • WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | RapidCharge | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>Not support</td> <td>1.0 hr</td> <td>1.0 hr</td> </tr> <tr> <td>Charge to 100%</td> <td>Not support</td> <td>2.5 hr</td> <td>2.5 hr</td> </tr> </tbody> </table> | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | Not support | 1.0 hr | 1.0 hr | Charge to 100% | Not support | 2.5 hr | 2.5 hr |
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| Charge to 80% | Not support | 1.0 hr | 1.0 hr | | | | | | | | | | | | | | | | | | | |
| Charge to 100% | Not support | 2.5 hr | 2.5 hr | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | One of the following, configurable by model (mutually exclusive with WiGig): • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | Preload | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | Limited warranty ¹² | One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | |
| Dimensions ³ Weight ² Case material | WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm Starting at 2.579 lb / 1.17 kg Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | |
| | | | | | | | | | Environment | PEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | |

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