

ThinkPad X1 Carbon (7th Gen) Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | |
|-------------------|---|--|--------------|-----------------------------|---------------------|--------------|----------------|------------------------|--|---|--|
| Processor | 8th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | | WWAN (optional) <i>One of the following, configurable by model:</i> | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | |
| | i5-8265U | 4 | 8 | 1.6 GHz | 3.9 GHz | 6MB | LPDDR3-2133 | Intel UHD Graphics 620 | • Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card | | |
| | i5-8365U | | | 1.6 GHz | 4.1 GHz | 6MB | | | • Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card | | |
| | i7-8565U | | | 1.8 GHz | 4.6 GHz | 8MB | | | * For non-WWAN model, it means the model is NOT WWAN upgradable | | |
| | i7-8665U | | | 1.9 GHz | 4.8 GHz | 8MB | | | Nano-SIM card slot, optional Verizon LTE (US) SIM card | | |
| | or 10th Generation Intel Core i5 / i7 Processor (NOT available in EMEA) | | | | | | | | | SIM card (opt) | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Dimensions | | |
| | i5-10210U | 4 | 8 | 1.6 GHz | 4.2 GHz | 6MB | LPDDR3-2133 | Intel UHD Graphics | <i>WxDxH (Privacy Guard):</i> 12.72" x 8.54" x 0.61"; 323mm x 217mm x 15.4mm | | |
| | i7-10510U | | | 1.8 GHz | 4.9 GHz | 8MB | | | <i>WxDxH (other model):</i> 12.72" x 8.54" x 0.59"; 323mm x 217mm x 14.95mm | | |
| | i7-10710U | 6 | 12 | 1.1 GHz | 4.7 GHz | 12MB | | | Weight | | |
| Graphics | Intel UHD Graphics 620 or Intel UHD Graphics in processor; supports external digital monitor via HDMI or USB Type-C / Thunderbolt; supports three independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@24Hz (HDMI) | | | | | | | | | Case color Case material | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | | Smart card reader | |
| Memory | 8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets | | | | | | | | | Media reader | |
| Display | Size | Resolution | Type | Surface | Brightness | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Ports | |
| | 14.0" | FHD (1920x1080) Multi-touch | IPS | Anti-reflection Anti-smudge | 300 nits | 16:9 | 700:1 | 72% | 170° | Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, side docking connector, security keyhole <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i> | |
| | 14.0" | FHD (1920x1080) Low Power | IPS | Anti-glare | 400 nits | 16:9 | 800:1 | 72% | 170° | Monitor cable Bundled Accy | |
| | 14.0" | FHD (1920x1080) ThinkPad Privacy Guard | IPS | Anti-glare | 400 nits | 16:9 | 1000:1 | 72% | 170° | Camera (optional) <i>One of the following, configurable by model:</i> | |
| | 14.0" | WQHD (2560x1440) | IPS | Anti-glare | 300 nits | 16:9 | 700:1 | 72% | 170° | • HD720p camera with ThinkShutter camera privacy, fixed focus | |
| | 14.0" | UHD (3840x2160) HDR 400, Dolby Vision™ | IPS | Glossy | 500 nits | 16:9 | 1400:1 | 90% | 170° | • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture (FHD only), anti-reflection (AR), anti-smudge coating | | | | | | | | | Audio support | |
| Storage | <i>One of the following, configurable by model:</i> | | | | | | | | | Keyboard | |
| | • M.2 2280 SSD / SATA 6.0Gb/s | | | | | | | | | UltraNav™ | |
| | • M.2 2280 SSD / PCIe NVMe 3.0 x 4 | | | | | | | | | TrackPoint® pointing device and buttonless glass surface multi-touch touchpad | |
| | • Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4 | | | | | | | | | Security | |
| Optical | None | | | | | | | | | Security chip | |
| Ethernet | Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2 | | | | | | | | | System Mgt (opt) | |
| WLAN + Bluetooth™ | <i>One of the following, configurable by model:</i> | | | | | | | | | Fingerprint reader | |
| | • Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0 | | | | | | | | | Touch style match on chip fingerprint reader on the palm rest | |
| | • Intel Wi-Fi 6 AX201, Wi-Fi 2x2 802.11ax + Bluetooth 5.0 (AX201 for 10th Gen processor only) | | | | | | | | | NFC (optional) | |
| | | | | | | | | | | Near Field Communication | |
| | | | | | | | | | | Battery | |
| | | | | | | | | | | Integrated Li-ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter | |
| | | | | | | | | | | Max battery life | |
| | | | | | | | | | | <i>MobileMark® 2014:</i> 18.3 hr <i>* Battery life varies significantly with settings, usage, & other factors</i> | |
| | | | | | | | | | | AC adapter | |
| | | | | | | | | | | 45W, 65W, or 65W slim USB-C AC adapter | |
| | | | | | | | | | | Operating system | |
| | | | | | | | | | | <i>Optional:</i> Windows® 10 Home 64 or Windows 10 Pro 64 | |
| | | | | | | | | | | Limited warranty | |
| | | | | | | | | | | <i>One of the following, configurable by model:</i> | |
| | | | | | | | | | | • 1-year depot repair service | |
| | | | | | | | | | | • 1-year depot with 2-year system board repair service | |
| | | | | | | | | | | • 3-year/1-yr battery depot repair service | |
| | | | | | | | | | | • 3-year/1-yr battery limited onsite service | |
| | | | | | | | | | | MIL-Spec test | |
| | | | | | | | | | | MIL-STD-810G military testing | |
| | | | | | | | | | | Environment | |
| | | | | | | | | | | EPEAT™ Gold; ENERGY STAR® 7.1; RoHS-compliant | |

Note: The specifications above may not be available in all regions.

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