

# ThinkPad X1 Carbon (6th Gen) 20KH006M++

**Region**  
EMEA

**Machine Type**  
20KH

**TopSeller**  
TopSeller

**Processor**  
Core i7-8550U (4C, 1.8 / 4.0GHz, 8MB)

**vPro**  
No

**Graphics**  
Integrated Intel UHD Graphics 620

**Memory**  
16GB Soldered

**Display**  
14" HDR WQHD (2560x1440) IPS Glossy

**Multi-touch**  
None

**Storage**  
1TB SSD M.2 PCIe NVMe Opal2

**Optical**  
None

**WLAN + Bluetooth**  
Intel 8265 ac, 2x2 + BT4.1

**WWAN**  
Fibocom L850-GL

**SIM Card**  
None

**Monitor Cable**  
None

**Adapter**  
ThinkPad Ethernet Extension Cable Gen 2

**Color**  
Black

**Camera**  
720p

**Keyboard**  
Backlit

**Fingerprint Reader**  
Fingerprint Reader

**NFC**  
NFC

**TPM**  
dTPM 2.0

**Battery**  
57Wh

**Power Adapter**  
65W USB-C

**Operating System**  
Windows 10 Pro 64

**Warranty**  
3-year, Onsite

**End of Support**  
May 10, 2024

**Ann Date (mm/yy)**  
04/18

## Note:

Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "\*\*\*" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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# ThinkPad X1 Carbon (6<sup>th</sup> Gen) Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        |                               |                                                                                                                                                                                                                                                          |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|---------------------|-------|--------------|------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor         | 7th Generation Intel® Core™ i5 Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Dimensions                    | WxDxH: 12.74" x 8.55" x 0.63"; 323.5mm x 217.1mm x 15.95mm                                                                                                                                                                                               |
|                   | Processor Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | # of Cores                                                                                                                                                                                                                      | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics     | Weight                        | Starting at 2.49 lb / 1.13 kg                                                                                                                                                                                                                            |
|                   | i5-7300U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                                                                                                                                                                                               | 4            | 2.6 GHz        | 3.5 GHz             | 3MB   | LPDDR3-1866  | Intel HD Graphics 620  | Case color                    | Black or Silver (silver case is NOT available in EMEA)                                                                                                                                                                                                   |
|                   | or 8th Generation Intel Core i5 / i7 Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Case material                 | Display cover: CFRP/GFRP hybrid;<br>Bottom: magnesium alloy / PPS hybrid                                                                                                                                                                                 |
|                   | Processor Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | # of Cores                                                                                                                                                                                                                      | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics     | Smart card reader             | None                                                                                                                                                                                                                                                     |
|                   | i5-8250U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                                                                                                                                                                                                                               | 8            | 1.6 GHz        | 3.4 GHz             | 6MB   | LPDDR3-2133  | Intel UHD Graphics 620 | Media reader                  | MicroSD card reader, supports UHS-II                                                                                                                                                                                                                     |
|                   | i5-8350U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                 |              | 1.7 GHz        | 3.6 GHz             | 6MB   |              |                        | Ports                         | Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, microSD card reader, side docking connector, security keyhole |
|                   | i7-8550U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                 |              | 1.8 GHz        | 4.0 GHz             | 8MB   |              |                        | Monitor cable                 | Optional: Lenovo HDMI to VGA Monitor Adapter                                                                                                                                                                                                             |
|                   | i7-8650U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                 |              | 1.9 GHz        | 4.2 GHz             | 8MB   |              |                        | Camera (optional)             | One of the following, configurable by model: <ul style="list-style-type: none"><li>• HD720p camera with ThinkShutter camera privacy, fixed focus</li><li>• IR camera and HD720p camera, fixed focus</li></ul>                                            |
|                   | Graphics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Intel HD Graphics 620 or Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 5120x2880@60Hz (USB Type-C); 4096x2160@30Hz (HDMI) |              |                |                     |       |              |                        |                               | Audio support                                                                                                                                                                                                                                            |
| Chipset           | Intel SoC (System on Chip) platform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Keyboard                      | 6-row, spill-resistant, multimedia Fn keys, LED backlight                                                                                                                                                                                                |
| Memory            | 8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets<br>* System clocks down for processors with lower memory controller                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | UltraNav™                     | TrackPoint® pointing device and buttonless Glass surface multi-touch touchpad                                                                                                                                                                            |
| Display           | One of the following, configurable by model: <ul style="list-style-type: none"><li>• 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle</li><li>• 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</li><li>• 14.0" (355mm) HDR WQHD (2560x1440) with Dolby Vision™, glossy, LED backlight, IPS, 500 nits, 16:9 aspect ratio, 1500:1 contrast ratio, 100% gamut, 170° viewing angle</li></ul> |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Security                      | Power-on password, hard disk password, supervisor password, security keyhole                                                                                                                                                                             |
| Multi-touch (opt) | On-cell touch, supports 10-finger gesture (FHD only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Security chip vPro (optional) | Discrete TPM 2.0, TCG Certified<br>Intel vPro Technology                                                                                                                                                                                                 |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Fingerprint reader            | Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology                                                                                                                                                                  |
| Storage           | One of the following, configurable by model: <ul style="list-style-type: none"><li>• M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)</li><li>• M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)</li></ul>                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | NFC (optional)                | Near Field Communication                                                                                                                                                                                                                                 |
| Optical           | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Battery                       | Integrated Li-Ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter                                                                                                                                           |
| Ethernet          | Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) via optional ThinkPad Ethernet Extension Cable Gen 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Max battery life              | MobileMark® 2014: 19.3 hr<br>* Battery life varies significantly with settings, usage, & other factors                                                                                                                                                   |
| WLAN + Bluetooth™ | Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card<br>* Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | AC adapter                    | 45W or 65W USB Type-C AC adapter                                                                                                                                                                                                                         |
| WWAN (optional)   | Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Preload                       | Windows® 10 Home 64 or Windows 10 Pro 64                                                                                                                                                                                                                 |
| SIM card (opt)    | Nano-SIM card slot, optional Verizon LTE (US) SIM card                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Limited warranty              | One of the following, configurable by model: <ul style="list-style-type: none"><li>• 1-year depot repair service</li><li>• 3-year/1-yr battery depot repair service</li><li>• 3-year/1-yr battery limited onsite service</li></ul>                       |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Mil-Spec test                 | MIL-STD-810G military certification                                                                                                                                                                                                                      |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |              |                |                     |       |              |                        | Environment                   | EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant                                                                                                                                                                                                            |

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