# ThinkPad X1 Carbon (7th Gen) 20QD0033GE

**WithDraw**
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**Product**
ThinkPad X1 Carbon (7th Gen)

**Region**
WE

**Country**
Germany

**Machine Type**
20QD

**TopSeller**
TopSeller

**Processor**
Core i7-8565U (4C / 8T, 1.8 / 4.6GHz, 8MB)

**Graphics**
Integrated Intel UHD Graphics 620

**Chipset**
Intel SoC Platform

**Memory**
8GB Soldered LPDDR3-2133

**Display**
14" FHD (1920x1080) Low Power IPS 400nits Anti-glare

**Multi-touch**
None

**Storage**
256GB SSD M.2 2280 PCIe NVMe Opal2

**Optane Memory**
None

**Optical**
None

**WLAN + Bluetooth**
Intel 9560 11ac, 2x2 + BT5.0

**WWAN**
Fibocom L850-GL

**SIM Card**
None

**Smart Card Reader**
None

**Monitor Cable**
None

**Bundled Accessories**
ThinkPad Ethernet Extension Adapter Gen 2

**Color**
Black Paint

**Camera**
720p + IR

**Keyboard**
Backlit

**Fingerprint Reader**
Fingerprint Reader

**NFC**
NFC

**TPM**
Discrete TPM 2.0

**Battery**
Integrated 51Wh

**Power Adapter**
65W USB-C

**System Management**
None

**Operating System**
Windows 10 Pro 64

**Bundled Software**
None

**Warranty**
3-year, Depot

**Upsell Service Bundles**
None

**End of Support**
2025-07-18

**Announce Date**
2019-06-18

Notes:
Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.

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# ThinkPad X1 Carbon (7th Gen) Platform Specifications

*Product Specifications Reference (PSREF)*

**Processor**

8th Generation Intel® Core™ i5 / i7 Processor

| 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 |
| i5-8365U | | | 1.6 GHz | 4.1 GHz | 6MB | | |
| i7-8565U | | | 1.8 GHz | 4.6 GHz | 8MB | | |
| i7-8665U | | | 1.9 GHz | 4.8 GHz | 8MB | | |

**Graphics**

Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or USB Type-C / Thunderbolt;
supports three independent displays;
Max resolution: 4096x2304@60Hz (Thunderbolt); 4096x2160@24Hz (HDMI)

**Chipset**

Intel SoC (System on Chip) platform

**Memory**

8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets

**Display**

| Size | Resolution | Type | Surface | Brightness | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle |
|---|---|---|---|---|---|---|---|---|
| 14.0" | FHD (1920x1080) Multi-touch | IPS | Anti-glare | 300 nits | 16:9 | 700:1 | 72% | 170° |
| 14.0" | FHD (1920x1080) Low Power | IPS | Anti-glare | 400 nits | 16:9 | 800:1 | 72% | 170° |
| 14.0" | FHD (1920x1080) ThinkPad Privacy Guard | IPS | Anti-glare | 400 nits | 16:9 | 1000:1 | 72% | 170° |
| 14.0" | WQHD (2560x1440) | IPS | Anti-glare | 300 nits | 16:9 | 700:1 | 72% | 170° |
| 14.0" | UHD (3840x2160) Dolby Vision™ HDR400 | IPS | Glossy | 500 nits | 16:9 | 1400:1 | 90% | 170° |

**Multi-touch *(opt)***

Capacitive-type multi-touch, supports 10-finger gesture (FHD only), anti-reflection (AR), anti-smudge coating

**Storage**

*One of the following, configurable by model:*

- M.2 2280 SSD / SATA 6.0Gb/s
- M.2 2280 SSD / PCIe NVMe 3.0 x 4
- Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4
- Intel Optane SSD, M.2 2280, PCIe NVMe 3.0 x2

**Optane memory**

Intel Optane Memory H10

**Optical**

None

**Ethernet**

Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*) via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2

**WLAN**
**Bluetooth™**

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0
Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**WWAN *(optional)***

*One of the following, configurable by model:*

- Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card
- Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card

** For non-WWAN model, it means the model is NOT WWAN upgradable*

**SIM card *(opt)***

Nano-SIM card slot, optional Verizon LTE (US) SIM card

**Dimensions**

*WxDxH:* 12.74" x 8.55" x 0.59"; 323.5mm x 217.1mm x 14.9mm

**Weight**

Starting at 2.4 lb / 1.09 kg

**Case color**

Black paint or black weave

**Case material**

*Display cover:* Carbon Fiber;
*Bottom:* magnesium alloy

**Smart card reader**

None

**Media reader**

None

**Ports**

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
** Depending on many factors, actual data transfer speed may be lower than theoretical speed*

**Monitor cable**

*Optional:* Lenovo HDMI to VGA Monitor Adapter

**Bundled Accy**

*Optional:* ThinkPad Ethernet Extension Adapter Gen 2

**Camera *(optional)***

*One of the following, configurable by model:*

- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus

**Audio support**

HD Audio, Realtek® ALC3286 codec /
Dolby® Atmos™ speaker system, 2W x 2, 0.8 x 2 /
4 array far-field microphones, headphone / microphone combo jack

**Keyboard**
**UltraNav™**

6-row, spill-resistant, multimedia Fn keys, LED backlight
TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

**Security**

Power-on password, hard disk password, supervisor password, security keyhole

**Security chip**

Discrete TPM 2.0, TCG Certified

**vPro *(optional)***

Intel vPro Technology

**Fingerprint reader**

Touch style match on chip fingerprint reader on the palm rest

**NFC *(optional)***

Near Field Communication

**Battery**

Integrated Li-ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

**Max battery life**

*MobileMark® 2014:* 18.3 hr
** Battery life varies significantly with settings, usage, & other factors*

**AC adapter**

45W or 65W USB Type-C AC adapter

**Preload**

Windows® 10 Home 64 or Windows 10 Pro 64

**Limited warranty**

*One of the following, configurable by model:*

- 1-year depot repair service
- 3-year/1-yr battery depot repair service

**Mil-Spec test**

MIL-STD-810G military testing

**Environment**

EPEAT™ Bronze; ENERGY STAR® 7.1; RoHS-compliant

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

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