

# ThinkPad X1 Carbon (7th Gen) 20QD0036GE

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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  
None

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  
None

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 (7<sup>th</sup> Gen) Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                     |                                        |              |                |                     |              |                |                        |               |                   |                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------|----------------|---------------------|--------------|----------------|------------------------|---------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor         | 8th Generation Intel® Core™ i5 / i7 Processor                                                                                                                                                                                                                       |                                        |              |                |                     |              |                |                        |               |                   | Dimensions<br>Weight<br>Case color<br>Case material                                                                                                                                                                                                                                                 | WxDxH: 12.74" x 8.55" x 0.59"; 323.5mm x 217.1mm x 14.9mm<br>Starting at 2.4 lb / 1.09 kg<br>Black paint or black weave<br>Display cover: Carbon Fiber;<br>Bottom: magnesium alloy                                                                                                                                                                                                       |
|                   | 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)                                               |                                        |              |                |                     |              |                |                        |               |                   | Smart card reader                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                     |
| Chipset           | Intel SoC (System on Chip) platform                                                                                                                                                                                                                                 |                                        |              |                |                     |              |                |                        |               |                   | Media reader                                                                                                                                                                                                                                                                                        | None                                                                                                                                                                                                                                                                                                                                                                                     |
| Memory            | 8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets                                                                                                                                                                                                  |                                        |              |                |                     |              |                |                        |               |                   | 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<br>* Depending on many factors, actual data transfer speed may be lower than theoretical speed |
| Display           | Size                                                                                                                                                                                                                                                                | Resolution                             | Type         | Surface        | Brightness          | Aspect Ratio | Contrast Ratio | Color Gamut            | Viewing Angle | Monitor cable     | Optional: Lenovo HDMI to VGA Monitor Adapter                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                          |
|                   | 14.0"                                                                                                                                                                                                                                                               | FHD (1920x1080) Multi-touch            | IPS          | Anti-glare     | 300 nits            | 16:9         | 700:1          | 72%                    | 170°          | Bundled Accy      | Optional: ThinkPad Ethernet Extension Adapter Gen 2                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                          |
|                   | 14.0"                                                                                                                                                                                                                                                               | FHD (1920x1080) Low Power              | IPS          | Anti-glare     | 400 nits            | 16:9         | 800:1          | 72%                    | 170°          | Camera (optional) | One of the following, configurable by model:                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                          |
|                   | 14.0"                                                                                                                                                                                                                                                               | FHD (1920x1080) ThinkPad Privacy Guard | IPS          | Anti-glare     | 400 nits            | 16:9         | 1000:1         | 72%                    | 170°          | Audio support     | • HD720p camera with ThinkShutter camera privacy, fixed focus<br>• IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus<br>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 |                                                                                                                                                                                                                                                                                                                                                                                          |
|                   | 14.0"                                                                                                                                                                                                                                                               | WQHD (2560x1440)                       | IPS          | Anti-glare     | 300 nits            | 16:9         | 700:1          | 72%                    | 170°          | Keyboard          | 6-row, spill-resistant, multimedia Fn keys, LED backlight                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                          |
|                   | 14.0"                                                                                                                                                                                                                                                               | UHD (3840x2160) Dolby Vision™ HDR400   | IPS          | Glossy         | 500 nits            | 16:9         | 1400:1         | 90%                    | 170°          | UltraNav™         | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                          |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture (FHD only), anti-reflection (AR), anti-smudge coating                                                                                                                                                       |                                        |              |                |                     |              |                |                        |               |                   | Security                                                                                                                                                                                                                                                                                            | Power-on password, hard disk password, supervisor password, security keyhole                                                                                                                                                                                                                                                                                                             |
| Storage           | One of the following, configurable by model:<br>• M.2 2280 SSD / SATA 6.0Gb/s<br>• M.2 2280 SSD / PCIe NVMe 3.0 x 4<br>• Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4<br>• Intel Optane SSD, M.2 2280, PCIe NVMe 3.0 x2           |                                        |              |                |                     |              |                |                        |               |                   | Security chip                                                                                                                                                                                                                                                                                       | Discrete TPM 2.0, TCG Certified                                                                                                                                                                                                                                                                                                                                                          |
| Optane memory     | Intel Optane Memory H10                                                                                                                                                                                                                                             |                                        |              |                |                     |              |                |                        |               |                   | vPro (optional)                                                                                                                                                                                                                                                                                     | Intel vPro Technology                                                                                                                                                                                                                                                                                                                                                                    |
| Optical           | None                                                                                                                                                                                                                                                                |                                        |              |                |                     |              |                |                        |               |                   | Fingerprint reader                                                                                                                                                                                                                                                                                  | Touch style match on chip fingerprint reader on the palm rest                                                                                                                                                                                                                                                                                                                            |
| Ethernet          | Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2                                                                                                                              |                                        |              |                |                     |              |                |                        |               |                   | NFC (optional)                                                                                                                                                                                                                                                                                      | Near Field Communication                                                                                                                                                                                                                                                                                                                                                                 |
| WLAN              | Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0                                                                                                                                                                                                          |                                        |              |                |                     |              |                |                        |               |                   | Battery                                                                                                                                                                                                                                                                                             | Integrated Li-ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter                                                                                                                                                                                                                                                                           |
| Bluetooth™        | Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter                                                                                                                                                                                               |                                        |              |                |                     |              |                |                        |               |                   | Max battery life                                                                                                                                                                                                                                                                                    | MobileMark® 2014: 18.3 hr<br>* Battery life varies significantly with settings, usage, & other factors                                                                                                                                                                                                                                                                                   |
| WWAN (optional)   | One of the following, configurable by model:<br>• Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card<br>• Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card<br>* For non-WWAN model, it means the model is NOT WWAN upgradable |                                        |              |                |                     |              |                |                        |               |                   | AC adapter                                                                                                                                                                                                                                                                                          | 45W or 65W USB Type-C AC adapter                                                                                                                                                                                                                                                                                                                                                         |
| SIM card (opt)    | Nano-SIM card slot, optional Verizon LTE (US) SIM card                                                                                                                                                                                                              |                                        |              |                |                     |              |                |                        |               |                   | Preload                                                                                                                                                                                                                                                                                             | Windows® 10 Home 64 or Windows 10 Pro 64                                                                                                                                                                                                                                                                                                                                                 |
|                   |                                                                                                                                                                                                                                                                     |                                        |              |                |                     |              |                |                        |               |                   | Limited warranty                                                                                                                                                                                                                                                                                    | One of the following, configurable by model:<br>• 1-year depot repair service<br>• 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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