

ThinkPad X1 Carbon Gen 8 20U9002NUS

Product

ThinkPad X1 Carbon Gen 8

Region

NA

Country/Region

USA

Machine Type

20U9

TopSeller

TopSeller

Processor

Intel Core i7-10610U (4C / 8T, 1.8 / 4.9GHz, 8MB)

Graphics

Integrated Intel UHD Graphics

Chipset

Intel SoC Platform

Memory

16GB Soldered LPDDR3-2133

Storage

512GB SSD M.2 2280 PCIe NVMe Opal2

Display

14" WQHD (2560x1440) IPS 300nits Anti-glare

Touchscreen

None

Ethernet

100/1000M via Optional Adapter

Optical

None

WLAN + Bluetooth

Intel AX201 11ax, 2x2 + BT5.0

WWAN

None

SIM Card

None

Smart Card Reader

None

Monitor Cable

None

Case Material

Carbon Fiber (Top) + Magnesium Alloy (Bottom)

Bundled Accessories

None

Camera

720p with ThinkShutter

Microphone

4x, 360°

Color

Black, Paint

Keyboard

Backlit, English

Fingerprint Reader

Touch Style, Match-on-Chip

NFC

None

TPM

Discrete TPM 2.0

Battery

Integrated 51Wh

Power Adapter

65W USB-C

System Management

Intel vPro

Operating System

Windows 10 Pro 64, English

Bundled Software

None

Base Warranty

3-year, Depot

Bundled Service

None

EAN / UPC / JAN

194778835800

End of Support

2026-11-28

Announce Date

2020-04-28

Recommended Services

Best

3Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection + Sealed Battery) (5PS0N73216)

Better

3Y Lenovo Support (Premier Support + Keep Your Drive + Sealed Battery) (5PS0N73159)

Good

3Y Premier Support Upgrade from 3Y Depot/CCI (5WS0T36160)

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.

California Electronic Waste Recycling Fee

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to:

<https://www.calrecycle.ca.gov/Electronics/Consumer>

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ThinkPad X1 Carbon Gen 8 Platform Specifications

Product Specifications Reference (PSREF)



| | | | | | | | | | | |
|-----------------------------|---|--|--------------|----------------|---------------------|------------|--------------|--------------------|-------------|---------------|
| Processor | 10th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | |
| | i5-10210U | 4 | 8 | 1.6 GHz | 4.2 GHz | 6MB | LPDDR3-2133 | Intel UHD Graphics | | |
| | i5-10310U | | | 1.7 GHz | 4.4 GHz | 6MB | | | | |
| | i7-10510U | | | 1.8 GHz | 4.9 GHz | 8MB | | | | |
| i7-10610U | 1.8 GHz | | | 4.9 GHz | 8MB | | | | | |
| Dimensions | <i>WxDxH (Privacy Guard):</i> 12.72" x 8.54" x 0.61"; 323mm x 217mm x 15.4mm <i>WxDxH (other model):</i> 12.72" x 8.54" x 0.59"; 323mm x 217mm x 14.9mm <i>Privacy Guard model:</i> starting at 2.66 lb / 1.21 kg; <i>Other model:</i> starting at 2.4 lb / 1.09 kg | | | | | | | | | |
| Weight | Black paint or black weave <i>Display cover:</i> Carbon Fiber; <i>Bottom:</i> magnesium alloy | | | | | | | | | |
| Case color | None | | | | | | | | | |
| Case material | None | | | | | | | | | |
| Smart card reader | None | | | | | | | | | |
| Media reader | None | | | | | | | | | |
| Ports | Two USB 3.2 Gen 1 (one Always On), two USB 3.2 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> | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | | |
| Memory | 8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets | | | | | | | | | |
| Display | Size | Resolution | Type | Surface | Touch | Brightness | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle |
| | 14.0" | FHD (1920x1080) | IPS | Anti-glare | - | 400 nits | 16:9 | 800:1 | 72% | 170° |
| | 14.0" | FHD (1920x1080) | IPS | Anti-glare | Multi-touch | 400 nits | 16:9 | 700:1 | 72% | 170° |
| | 14.0" | FHD (1920x1080) ThinkPad Privacy Guard | IPS | Anti-glare | Multi-touch | 500 nits | 16:9 | 1500:1 | 72% | 170° |
| | 14.0" | WQHD (2560x1440) | IPS | Anti-glare | - | 300 nits | 16:9 | 1000:1 | 72% | 170° |
| | 14.0" | UHD (3840x2160) HDR 400, Dolby Vision™ | IPS | Glossy | - | 500 nits | 16:9 | 1500:1 | 90% DCI-P3 | 170° |
| Monitor cable | Optional: Lenovo HDMI to VGA Monitor Adapter | | | | | | | | | |
| Bundled Accy | Optional: ThinkPad Ethernet Extension Adapter Gen 2 | | | | | | | | | |
| Camera (optional) | <ul style="list-style-type: none"> HD720p camera with ThinkShutter camera privacy, fixed focus IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus | | | | | | | | | |
| Audio support | HD Audio, USI 4551-513711-00 codec / Dolby® Atmos™ speaker system, 2W x 2, 0.8 x 2 / four 360° far-field microphones, headphone / microphone combo jack | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, LED backlight | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and buttonless glass surface multi-touch touchpad | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | |
| Security chip | <ul style="list-style-type: none"> Firmware TPM 2.0 integrated in chipset Discrete TPM 2.0 TCG Certified | | | | | | | | | |
| System Mgt (opt) | Intel vPro Technology | | | | | | | | | |
| Fingerprint reader | Touch style match on chip fingerprint reader on the palm rest | | | | | | | | | |
| NFC (optional) | Near Field Communication | | | | | | | | | |
| Battery | Integrated Li-Polymer 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter | | | | | | | | | |
| Max battery life | <i>MobileMark® 2014:</i> 19.5 hr <i>MobileMark 2018:</i> 13.8 hr <i>* Battery life varies significantly with hardware configurations, settings, usage, & other factors</i> | | | | | | | | | |
| AC adapter | <ul style="list-style-type: none"> 45W USB-C AC adapter 65W USB-C AC adapter 65W USB-C slim AC adapter | | | | | | | | | |
| Operating system | <ul style="list-style-type: none"> Windows® 10 Home 64 Windows 10 Pro 64 | | | | | | | | | |
| Limited warranty (optional) | <ul style="list-style-type: none"> 1-year depot repair service 1-year depot with 2-year system board repair service 1-year limited onsite service 1-year + 2-year depot repair service 1-year + 2-year limited onsite 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® 8.0; RoHS-compliant | | | | | | | | | |

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

Lenovo
May 2020

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