

ThinkPad X1 Carbon Gen 8 20U90002MH

Lenovo

PSREF
Product Specifications
Reference

PERFORMANCE

Processor

Intel® Core™ i5-10210U (4C / 8T, 1.6 / 4.2GHz, 6MB)

Graphics

Integrated Intel UHD Graphics

Chipset

Intel SoC Platform

Memory

16GB Soldered LPDDR3-2133

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Max Memory

16GB soldered memory, not upgradable

Storage

256GB SSD M.2 2280 PCIe® 3.0x4 NVMe® Opal2

Storage Support

One drive, up to 2TB M.2 2280 SSD, optional Intel Optane™
Memory integrated with SSD, M.2

Card Reader

No card reader

Audio Chip

High Definition (HD) Audio, USI 4551-513711-00 codec

Speakers

Stereo speakers, 2W x2 and 0.8W x2, Dolby® Atmos®

Camera

IR & 720p with ThinkShutter

Microphone

4x, 360°

Battery

Integrated 51Wh

Max Battery Life

MobileMark® 2014: 19.5 hr

MobileMark 2018: 13.8 hr

JEITA 2.0: 19.8 hr

Power Adapter

65W USB-C® Slim (3-pin)

DESIGN

Display

14" FHD (1920x1080) IPS 400nits Anti-glare

Keyboard

Backlit, English (EU)

Case Color

Black, Paint

Case Material

Carbon Fiber (Top), Magnesium Alloy (Bottom)

Dimensions (WxDxH)

323 x 217 x 14.95 mm (12.72 x 8.54 x 0.59 inches)

Weight

1.09 kg (2.4 lbs)

SOFTWARE

Operating System

Windows® 10 Pro 64, WE (EN/FR/DE/NL/IT)

CONNECTIVITY

Ethernet

100/1000M (Adapter Needed)

WLAN + Bluetooth®

Intel AX201 11ax, 2x2 + BT5.2

WWAN

WWAN Upgradable to 4G

NFC

NFC

Standard Ports

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x USB-C 3.2 Gen 2 / Thunderbolt™ 3 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.2)
- 1x HDMI® 1.4b
- 1x Ethernet extension connector
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Side docking connector

Optional Ports (configured)

1x Nano-SIM Card Slot

Docking

Various docking solutions supported via side docking connector, Thunderbolt or USB-C.

For more compatible docking solutions, please visit [Docking for ThinkPad® X1 Carbon Gen 8](#)

SECURITY & PRIVACY

Security Chip

Discrete TPM 2.0

Fingerprint Reader

Touch Style, Match-on-Chip

Physical Locks

Kensington® Security Slot

Other Security

- IR camera for Windows® Hello
- ThinkShutter camera cover

MANAGEABILITY

System Management

Non-vPro

SERVICE

Base Warranty

3-year, Depot

ACCESSORIES

Bundled Accessories

ThinkPad® Ethernet Extension Adapter Gen 2

CERTIFICATIONS

Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- TCO Certified
- RoHS compliant

Other Certifications

Athena certified

Mil-Spec Test

MIL-STD-810G military test passed

MODEL

TopSeller : Yes

Announce Date : 2020-04-28

EAN / UPC / JAN : 0194778622561

End of Support : 2026-11-28



- Lenovo reserves the right to change specifications or other product information without notice.
- Product image on this page is a sample, it may not match the real color of this model
- 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

Premier Support - A direct 24x7x365 line to our most elite technicians.



Advanced technical support, 24x7x365, in more than 100 markets



Technical Account Managers for proactive relationship and escalation management



Comprehensive hardware & OEM software support



Priority on service delivery and repair parts



Single point of contact for simplified end-to-end case management



Lenovo Service Connect Portal for customized reporting and product support

Accidental Damage Protection - Protection of your PC from the unexpected.

Experience shows that a significant portion of devices may be damaged (and not covered under warranty) in the first three years. Lenovo's Accidental Damage Protection service covers accidents beyond the system warranty such as drops, spills, bumps and even electrical surges. Make sure your new device has maximum protection, avoid unplanned costs and get peace of mind.

Base Warranty - Included with the systems you purchase, default 1- or 3-year coverage window.

Warranty Extensions & Upgrades - Service and protection that's right for your circumstances.

- Pick Up & Return Courier
- Onsite Support
- Technician Installed Customer
- Replaceable Unit Service
- International Warranty Upgrade

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Recommended Accessories



ThinkPad Ultra Docking Station (American Standard Plug)

40AJ0135US

The ThinkPad Ultra Docking Station provides the best docking experience for large enterprise ThinkPad customers. The innovative side connector, designed exclusively for ThinkPad notebooks, provides a driver-free way t...

Recommended Services

BEST	4Y Lenovo Protect (Premier Support + ADP + KYD + International Upg) (5PS0N73171)
BETTER	3Y Lenovo Protect (Premier Support + ADP + KYD + 3Y SBTY + International Upg) (5PS0N73216)
GOOD	3Y Lenovo Support (Premier Support + KYD + 3Y SBTY + International Upg) (5PS0N73159)

For a full list of accessories and services, please visit:
<https://smartfind.Lenovo.com>



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