

ThinkPad X1 Carbon Gen 12

PSREF Product Specifications Reference

PERFORMANCE

Processor

Intel® Core™ Ultra 7 155U, 12C (2P + 8E + 2LPE) / 14T, Max Turbo up to 4.8GHz, 12MB

AI PC Category

AI PC

NPU

Integrated Intel® AI Boost, up to 11 TOPS

Graphics

Integrated Intel® Graphics

Chipset

Intel® SoC Platform

Memory^[1]

32GB Soldered LPDDR5x-6400

Memory Slots

Memory soldered to systemboard, no slots, 8-channel

Max Memory

32GB soldered memory, not upgradable

Storage

1TB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal 2.0

Storage Support^[2]

One drive, up to 2TB M.2 2280 SSD

Storage Slot

One M.2 2280 PCIe® 4.0 x4 slot

Card Reader

None

Optical

None

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2, Dolby Atmos®

Camera

FHD 1080p + IR Discrete with Privacy Shutter

Microphone

2x, Array

Battery

Integrated 57Wh

Power Adapter

65W USB-C® Slim (3-pin)

DESIGN

Display^[3]

14" WUXGA (1920x1200) IPS 400nits Anti-glare, 100% sRGB, 60Hz, Low Power

Touchscreen

None

Keyboard

Backlit, English (UK)

Touchpad

Haptic Touchpad

Case Color

Black, Paint

Case Material

Carbon Fiber (Top), Aluminium (Bottom)

Pen

Pen Not Supported

Dimensions (WxDxH)^[4]

312.80 x 214.75 x 14.96 mm (12.31 x 8.45 x 0.59 inches)

Weight^[5]

Starting at 1.09 kg (2.40 lbs)

SOFTWARE

Operating System

Windows® 11 Pro, English

Bundled Software

Intel® Connectivity Performance Suite

CONNECTIVITY

Ethernet^[6]

No Onboard Ethernet

WLAN + Bluetooth^[7]

Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 + BT5.3

WWAN

WWAN Upgradable to 4G or 5G

SIM Card

None

NFC

None

Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 2x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)

Optional Ports (configured)

1x Nano-SIM Card Slot

Docking

Various docking solutions supported via Thunderbolt™ / USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkPad® X1 Carbon Gen 12](#)

SECURITY & PRIVACY

Smart Card Reader

None

Security Chip

Discrete TPM 2.0 Enabled

Fingerprint Reader

Touch Style, Match-on-Chip, in Keyboard Key

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Other Security

- Camera privacy shutter
- Ultrasonic Human Presence Detection (FHD 1080p + IR camera models)
- IR camera for Windows® Hello (facial recognition)

MANAGEABILITY

System Management

Non-vPro®

SERVICE

Base Warranty

3-year, Courier or Carry-in

Included Upgrade

3Y Premier Support WHB (CPN)

ACCESSORIES

Bundled Accessories^[8]

None

CERTIFICATIONS

Green Certifications^[9]

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered
- ErP Lot 6/26
- RoHS compliant
- TCO Certified 10.0

Other Certifications

- Intel® Evo™ Platform
- Eyesafe® Certified 2.0

Mil-Spec Test

MIL-STD-810H military test passed

MODEL

TopSeller	: Yes	Announce Date	: 2024-03-12
EAN / UPC / JAN	: 0197530388453	End of Support	: 2030-07-08

Note:

[1] Installed memory is actually LPDDR5x-7500 but run as LPDDR5x-6400 due to platform limitation.

[2] The storage capacity supported is based on the test.....

· Lenovo reserves the right to change specifications without notice.

To see more note information, please link to

<https://psref.lenovo.com/Detail/2402?M=21KC006LCX>

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 Universal USB-C Dock

THE SMARTER WAY TO WORK Introducing the ThinkPad Universal USB-C Dock. This advanced, universally compatible one-cable docking solution lets you work smarter, not harder. It comes with a vast array of ports, next-gen ...

Recommended Services

BETTER	4Y Premier Support upgrade from 3Y Premier Support (5WS0W86716)
GOOD	3Y Lenovo Support (KYD + SBTY + International Upg) (5PS1D67026)

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

PSREF
Product Specifications
Reference