# ThinkPad X1 Carbon Gen 12 21KC005XGE

Lenovo 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**
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, German

**Touchpad**
Haptic Touchpad

**Case Color**
Black, Paint

**Case Material**
Carbon Fiber (Top), Aluminium (Bottom)

**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, German

**Bundled Software**
Intel® Connectivity Performance Suite

## CONNECTIVITY

**Ethernet**[6]
No Onboard Ethernet

**WLAN + Bluetooth®**[7][8]
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**
- IR camera for Windows® Hello (facial recognition)
- Ultrasonic Human Presence Detection (FHD 1080p + IR camera models)
- Camera privacy shutter

## MANAGEABILITY

**System Management**
Non-vPro®

## SERVICE

**Base Warranty**
3-year, Courier or Carry-in

**Included Upgrade**
3Y Premier Support WHB (CPN), CO2 Offset 0.5 ton (2nd Generation Carbon Offset Projects)

## ACCESSORIES

**Bundled Accessories**[9]
None

## CERTIFICATIONS

**Green Certifications**[10]
- ENERGY STAR® 8.0
- EPEAT™ Gold Registered
- ErP Lot 6/26
- RoHS compliant
- TCO Certified 9.0

**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** | : 0197530374289 | **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=21KC005XGE

## 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**

40AY0090US

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 Lenovo Support (Premier Support + KYD + 3Y SBTY + International Upg) (5PS1D67029) |
| GOOD | 3Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39253) |

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

Lenovo **PSREF**
**Product Specifications Reference**