

# ThinkPad X1 Carbon Gen 12

## PERFORMANCE

|                                      |   |
|--------------------------------------|---|
| <b>Processor</b>                     | Intel® Core™ Ultra 7 155U, 12C (2P + 8E + 2LPE) / 14T, Max Turbo up to 4.8GHz, 12MB |
| <b>AI PC Category</b>                | AI PC   |
| <b>NPU</b>                           | Integrated Intel® AI Boost, up to 11 TOPS   |
| <b>Graphics</b>                      | Integrated Intel® Graphics  |
| <b>Chipset</b>                       | Intel® SoC Platform   |
| <b>Memory<sup>[1]</sup></b>          | 32GB Soldered LPDDR5x-6400  |
| <b>Memory Slots</b>                  | Memory soldered to systemboard, no slots, 8-channel                                 |
| <b>Max Memory</b>                    | 32GB soldered memory, not upgradable  |
| <b>Storage</b>                       | 1TB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal 2.0                             |
| <b>Storage Support<sup>[2]</sup></b> | One drive, up to 2TB M.2 2280 SSD   |
| <b>Storage Slot</b>                  | One M.2 2280 PCIe® 4.0 x4 slot  |
| <b>Card Reader</b>                   | None  |
| <b>Optical</b>                       | None  |
| <b>Audio Chip</b>                    | High Definition (HD) Audio, Realtek® ALC3306 codec                                  |
| <b>Speakers</b>                      | Stereo speakers, 2W x2, Dolby Atmos®  |
| <b>Camera</b>                        | UHD 8.0MP + IR Discrete with Privacy Shutter, MIPI, Computer Vision                 |
| <b>Microphone</b>                    | 2x, Array   |
| <b>Battery</b>                       | Integrated 57Wh   |
| <b>Power Adapter</b>                 | 65W USB-C® Slim (3-pin)   |

## DESIGN

|                |  |
|----------------|--|
| <b>Display</b> | 14" 2.8K (2880x1800) OLED 400nits Anti-glare / Anti-reflection / Anti-smudge, 100% DCI-P3, 120Hz, DisplayHDR™ True Black 500, Dolby Vision®, Touch |
|----------------|--|

|   |   |
|---|---|
| <b>Touchscreen</b>                      | Add-on Film Touch, 10-point Multi-touch   |
| <b>Keyboard</b>                         | Backlit, German   |
| <b>Touchpad</b>                         | Trackpad  |
| <b>Case Color</b>                       | Black, Paint  |
| <b>Case Material</b>                    | Carbon Fiber (Top), Aluminium (Bottom)  |
| <b>Pen</b>                              | Pen Not Supported   |
| <b>Dimensions (WxDxH)<sup>[3]</sup></b> | 312.80 x 214.75 x 14.96 mm (12.31 x 8.45 x 0.59 inches)   |
| <b>Weight<sup>[4]</sup></b>             | Starting at 1.08 kg (2.37 lbs)  |
| <b>SOFTWARE</b>                         |   |
| <b>Operating System</b>                 | Windows® 11 Pro, German   |
| <b>Bundled Software</b>                 | Intel® Connectivity Performance Suite   |
| <b>CONNECTIVITY</b>                     |   |
| <b>Ethernet<sup>[5]</sup></b>           | No Onboard Ethernet   |
| <b>WLAN + Bluetooth<sup>[6]</sup></b>   | Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 + BT5.3  |
| <b>WWAN</b>                             | Quectel RM520N-GL, 5G Sub-6 GHz, with Embedded eSIM   |
| <b>SIM Card</b>                         | None  |
| <b>NFC</b>                              | NFC   |
| <b>Standard Ports</b>                   | <ul style="list-style-type: none"><li>1x USB-A (USB 5Gbps / USB 3.2 Gen 1)</li><li>1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On</li><li>2x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1</li><li>1x HDMI® 2.1, up to 4K/60Hz</li><li>1x Headphone / microphone combo jack (3.5mm)</li></ul> |
| <b>Optional Ports (configured)</b>      | 1x Nano-SIM Card Slot   |
| <b>Docking</b>                          | Various docking solutions supported via Thunderbolt™ / USB-C®.  |
|   | For more compatible docking solutions, please visit <a href="#">Docking for ThinkPad® X1 Carbon Gen 12</a>  |

## SECURITY & PRIVACY

|                           |   |
|---------------------------|---|
| <b>Smart Card Reader</b>  | None  |
| <b>Security Chip</b>      | Discrete TPM 2.0 Enabled  |
| <b>Fingerprint Reader</b> | Touch Style, Match-on-Chip, in Keyboard Key   |
| <b>Physical Locks</b>     | Kensington® Nano Security Slot™, 2.5 x 6 mm   |
| <b>Other Security</b>     | <ul style="list-style-type: none"><li>Computer Vision-based User Presence Sensing including lock on leave (UHD 8.0MP + IR camera models)</li><li>Camera privacy shutter</li><li>IR camera for Windows® Hello (facial recognition)</li></ul> |

## MANAGEABILITY

|                          |           |
|--------------------------|-----------|
| <b>System Management</b> | Non-vPro® |
|--------------------------|-----------|

## SERVICE

|                         |  |
|-------------------------|--|
| <b>Base Warranty</b>    | 3-year, Courier or Carry-in  |
| <b>Included Upgrade</b> | 3Y Premier Support WHB (CPN), CO2 Offset 0.5 ton (2nd Generation Carbon Offset Projects) |

## ACCESSORIES

|  |      |
|--|------|
| <b>Bundled Accessories<sup>[7]</sup></b> | None |
|--|------|

## CERTIFICATIONS

|   |  |
|---|--|
| <b>Green Certifications<sup>[8]</sup></b> | <ul style="list-style-type: none"><li>ENERGY STAR® 8.0</li><li>EPEAT™ Gold Registered</li><li>ErP Lot 6/26</li><li>RoHS compliant</li><li>TCO Certified 10.0</li></ul> |
| <b>Other Certifications</b>               | <ul style="list-style-type: none"><li>Intel® Evo™ Platform</li><li>Eyesafe® Certified 2.0</li></ul>  |
| <b>Mil-Spec Test</b>                      | MIL-STD-810H military test passed  |

## MODEL

|                        |                 |                       |              |
|------------------------|-----------------|-----------------------|--------------|
| <b>TopSeller</b>       | : Yes           | <b>Announce Date</b>  | : 2024-03-12 |
| <b>EAN / UPC / JAN</b> | : 0197530383052 | <b>End of Support</b> | : 2030-07-08 |

· Lenovo reserves the right to change specifications without notice.  
To see more note information, please link to <https://psref.lenovo.com/Detail/2402?M=21KCO05RGE>

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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

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## 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.

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- Technician Installed Customer
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- 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 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>

**PSREF**  
Product Specifications  
Reference