

# ThinkPad X1 Carbon Gen 12

Introducing the next-gen ThinkPad X1 Carbon - featuring powerful Intel® Core™ Ultra processors, designed to enhance graphics performance and elevate AI capabilities. Compared to its predecessors, integrated Intel® Arc Graphics deliver 2x performance boost, ensuring seamless workflows, enriched visual experience, and maximum encoding speed without any slowdown. Experience optimized performance with 40% lower SoC power consumption, leading to more productivity on a single charge with a 57 Whr battery, and a cooler, quieter PC during extended work sessions.



## Redefining possibilities with powerful performance and groundbreaking on-device AI

The ultimate device for any mobile worker or executive, ThinkPad X1 Series combines the latest productivity and security technologies with sleek and lightweight designs.

Supercharge your work efficiency with its cutting-edge Computer Vision technology. The innovative Face Sensing feature activates the laptop upon detecting enrolled users in its range. Coupled with the high-performance 8MP camera and the low-light video enhancement feature, enjoy crisp and clear visuals in any lighting situation, ensuring optimal virtual collaborations.

Experience the synergy of form and function with the premium 14" screen boasting an impressive 89.20% screen-to-body ratio and 2.8K OLED display option. The expansive display ensures a more immersive visual experience, while the minimal bezel design with premium aesthetics maximizes viewing area with minimum distractions.

Enhance video conferencing with the high-quality 8MP camera with low-light enhancements, ensuring superior clarity. Furthermore, the auto-framing feature ensures you remain perfectly centered in meetings, while background blur minimizes distractions.



# The highest performance notebook

Elevate your professional prowess with this laptop that integrates AI-accelerated experiences, performance, and reliability effortlessly. The revolutionary Intel Meteor Lake architecture delivers up to 2x graphics performance, running tasks independently and servicing AI workloads for a responsive user experience. Moreover, a 42% larger thermal capability ensures sustained performance during prolonged work sessions without overheating.

## Personalized Control

The redesigned keyboard with tactile markings aids in typing accuracy and facilitates exact maneuvering for the visually impaired. The enhanced TrackPad with an optional Haptic TouchPad offers precise and controlled navigation with AI tuning and enhanced palm rejection algorithm, contributing to a more intuitive computing experience.

## Seamless Functionality

The Flip to Start feature ensures quick access to the notebook, allowing swift startups during busy workdays. Additionally, fingerprint authentication is now on the keyboard, offering a secure login experience while also enhancing accessibility.

## Redefining Minimalism

Designed for optimal functionality, the sleek body of the laptop boasts a minimal iconic silhouette, embodying sophistication without unnecessary visual complexity. The introduction of a new logo, elegantly debossed, ensures a smooth and distraction-free typing experience.



# Built consciously for a sustainable future

Lenovo provides smarter technology that contributes to a sustainable future for customers, colleagues, communities, and the planet. As a global technology powerhouse, we are committed to achieving net-zero greenhouse gas emissions by 2050 with targets validated by Science Based Targets initiative.



## Recycled or sustainable product materials

Lenovo is focused on integrating sustainable materials and minimizing waste through innovative product and packaging design. Incorporating substantial recycled content such as magnesium, aluminum, and postconsumer recycled content (PCC) in manufacturing contributes to a circular economy while reducing carbon footprint.

- Use of recycled materials (90% recycled magnesium C cover & 55% recycled aluminum + 45% hydro aluminum D cover)
- PCC in plastic parts



## Recycled shipping/packaging content

Lenovo reduces its overall carbon footprint by integrating bio-based materials like bamboo and sugarcane into laptop packaging, ensuring it is 100% rapidly renewable. Our commitment to sustainability is reflected in our zero plastic packaging solutions across products, including the latest X1 Carbon.

- Made from 100% recyclable bamboo and sugarcane
- FSC Certified Plastic Free Packaging



## Product PCC

85% PCC Plastic Key Caps,  
90% PCC in Plastic  
Speaker, Battery Pack  
Enclosure, & AC Adapter,  
30% PCC Plastic Cable  
Holder

### Asset Recovery Service (ARS)

Lenovo's Asset Recovery Services (ARS) enables secure destruction of data, with minimum impact on the environment and a fair financial return. The service also supports equipment from any manufacturer including PCs & tablets, monitors, servers, phones, printers, copiers and networking equipment.

### Lenovo TruScale DaaS

TruScale Device as a Service is a fully managed subscription-based model that offers access to a complete portfolio of hardware (including workstations, laptops, tablets, and phones), software, and trusted services with a flexible payment approach with consistent solutions and a predictable, transparent fee.

### Lenovo CO2 Offset Services

Lenovo's Co2 Offset Service makes offsetting carbon emissions simple and within the control of the customer. We offset the carbon emissions associated with each of our devices by providing the option at point of purchase, ensuring we do our part toward reducing the overall carbon footprint.

## Lenovo Services

Lenovo delivers tailored sustainability services, devices, and infrastructure solutions from our broad portfolio, working closely with you to support your target outcomes across the IT lifecycle..



### On-site Service

- On-site support if needed
- Normally next business day service
- Agreed appointment times

## Accessories

### Lenovo USB-C Dual Display Travel Dock



- Enhanced connectivity and visual experience in a portable hub
- Continuous power supply; efficient charging solution for mobile devices
- Eco-friendly dual display travel dock; style meets sustainability

PN: Dock without Adapter : 40B90000WW, Dock with Adapter : 40B90100xx

### Lenovo Go Wireless Multi-Device Mouse



- Compact ambidextrous design, programmable Utility Button on the side, default functions optimized for Teams calls
- Connects to up to 3 devices via 1x USB-C dongle, 2x Bluetooth 5.0; quick switch button to jump control across devices
- Comes with a blue optical sensor that tracks on most surfaces and wireless Qi or wired USB-C fast-chargeable battery

PN: 4Y51C21217

# ThinkPad X1 Carbon Gen 12

## Performance

### Processor

Intel U or H Series Core Ultra 5/7 Processor (Series 1)

### Operating System

Windows 11 Pro  
 Windows 11 Home  
 Windows 11 Home Single Language  
 Windows 11 DG Windows 10 Pro 64  
 Fedora Linux  
 Linux  
 Ubuntu Linux

### NPU

Integrated Intel AI Boost, up to 11 TOPS

### Graphics

Intel Graphics (integrated)  
 Intel Arc Graphics (integrated)

### Memory

16GB LPDDR5x-6400, soldered  
 32GB LPDDR5x-6400, soldered  
 64GB LPDDR5x-6400, soldered

### Storage<sup>1</sup>

Up to 1x 2TB M.2 2280 PCIe NVMe SSD

<sup>1</sup>The storage capacity supported is based on the test results with current Lenovo storage offerings.

### Audio

High Definition (HD) Audio  
 Stereo speakers, 2W x2, Dolby Atmos  
 Dual-microphone array, far-field, Dolby Voice

### Camera\*

FHD 1080p + IR discrete, with privacy shutter, temporal noise reduction  
 UHD 8.0MP + IR discrete, with privacy shutter, MIPI, Computer Vision, temporal noise reduction

### Battery<sup>2 3</sup>

57Wh (up to 16.0 hr) battery, Rapid Charge

<sup>2</sup>Battery life claims are approximate maximum. Actual result will vary depending on many factors and the maximum battery capacity will decrease with time and use.

<sup>3</sup>Rapid charge is only guaranteed when the computer is turned off or in standby mode or in hibernation mode.

### Power Adapter\*

45W USB-C adapter, PD 3.0  
 65W USB-C adapter, PD 3.0  
 65W USB-C slim adapter, PD 3.0

## Design

### Display<sup>4</sup>

14" WUXGA (1920x1200) IPS Anti-glare 16:10  
 - 400nits, 100% sRGB, low power, Eyesafe  
 - 400nits, 100% sRGB, low power, on-cell touch, Eyesafe  
 - 500nits, 100% sRGB, ThinkPad Privacy Guard, Eyesafe  
 14" 2.8K (2880x1800) OLED AGARAS 16:10  
 - 400nits, 100% DCI-P3, DisplayHDR True Black 500, Dolby Vision, Eyesafe  
 - 400nits, 100% DCI-P3, DisplayHDR True Black 500, Dolby Vision, Add-on Film touch, Eyesafe

<sup>4</sup>IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

### Keyboard

6-row, spill-resistant, air intake design, backlight

### Touchpad

TrackPoint and glass surface Haptic Touchpad  
 70.5 x 120 mm (2.78 x 4.72 inches)  
 TrackPoint and glass surface 3-button Trackpad  
 56.2 x 120 mm (2.21 x 4.72 inches)

### Dimensions<sup>5</sup>

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

<sup>5</sup>The system dimensions may vary depending on configurations.

### Weight<sup>6</sup>

Starting at 1.08 kg (2.37 lbs)

<sup>6</sup>The system weight is approximate and may vary depending on configurations

### Color

Black, paint  
 Black, weave

### Case material

Carbon fiber (top), aluminium (bottom)

## Connectivity

### WLAN + Bluetooth<sup>7</sup>

802.11ax (Wi-Fi 6E) or 802.11be (Wi-Fi 7), Bluetooth 5.3  
 Up to Intel Wi-Fi 7 BE200, 802.11be, Bluetooth 5.3

<sup>7</sup>Wi-Fi 6E and Wi-Fi 7 are only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10. Bluetooth 5.3 operation requires Windows 11.

### WWAN\*

4G LTE CAT16 with embedded eSIM  
 5G Sub-6 GHz with embedded eSIM

### NFC

Near Field Communication\*

### 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 & DP 2.1  
 1x HDMI 2.1, up to 4K/60Hz  
 1x Headphone / microphone combo jack (3.5mm)  
 1x Nano-SIM card slot (WWAN support models)\*

### Docking

Docking support via Thunderbolt or USB-C

## Security & Privacy

### Security

Discrete TPM 2.0  
 Kensington Nano Security Slot  
 Touch style MOC fingerprint reader  
 Camera privacy shutter  
 IR camera for Windows Hello (facial recognition)  
 Privacy Guard with Privacy Alert\*  
 Computer Vision-based User Presence Sensing (UHD 8.0MP models)\*  
 Ultrasonic Human Presence Detection (FHD 1080p models)\*

## Manageability

### System Management\*<sup>8</sup>

Intel vPro Enterprise\*

<sup>8</sup>Intel vPro offers a superset of DASH's defined capabilities

## Certifications

### Green Certifications<sup>9 10 11</sup>

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

<sup>9</sup>The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

<sup>10</sup>EPEAT registration and ENERGY STAR certification are optional and only available on the models with preloaded OS.

<sup>11</sup>EPEAT is registered where applicable, please see [epeat.net](http://epeat.net) for registration status by country.

### Other Certifications

Intel Evo Platform\*  
 Eyesafe Certified 2.0  
 TÜV Rheinland Dynamic Privacy Filter (DPF) Certification\*  
 MIL-STD-810H