

Elevate Professional Endeavors with Powerhouse Workstations

Designed for business users who tackle compute-intensive workflows. With professional-grade graphics and powerful, multi-core processors, Lenovo sets the standard for mobile workstations and ensures best-in-class reliability even when you're away from the office.

ThinkPad P16v Gen 2



The all-new ThinkPad P16v Gen 2 balances extreme power, optimum portability and seamless user experience to accelerate workflows. The Intel® Core™ Ultra H Series processor marries productivity and experiential wow of AI without the worry of performance lags and battery drain. The optional NVIDIA® RTX graphics boosts your creation- from editing high-resolution videos to running complex AI simulations. An impressive 90Wh battery and Rapid Charge support elevates productivity, while the MIL-SPEC durability shields it from the everyday knocks and bumps.

Let your imagination run wild on the stunning WUXGA IPS screen that presents clear, pixel-sharp images every time without fail. The cinema-grade 100% DCI-P3 color gamut makes your visuals appear vivid, color-corrected and more life-like. The TÜV Low Blue Light certification ensures flicker-free display and reduced eye strain during long hours at work.

With ample up to 96GB DDR5 memory, users can run heavy datasets, spreadsheets and multiple resource-intensive applications simultaneously without experiencing significant slowdowns or performance bottlenecks. Plus, the up to 4TB SSD storage offers quicker loading times for statistical software applications

Intel® Arc Graphics and NVIDIA RTX Graphics offer substantial graphics processing power, which is crucial for tasks such as rendering 3D models, applying complex filters and effects, and handling high-resolution images. This enables Photoshop users to work with intricate designs and detailed images without experiencing lag or slowdowns.

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..



Accessories

Lenovo 15.6-inch Laptop Casual Backpack B210 Grey



- Extra cushioning and padding for maximum comfort
- Waterproof fabric to keep your gadgets dry and safe
- Conviniently placed compartments and pockets for easy access.

PN: GX40Q17225

ThinkPad P16v Gen 2

Performance

Processor
Intel H Series Core Ultra 7 / 9 Processor

AI PC Category*
AI-Ready Workstations

Operating System*
Windows 11 Pro
Windows 11 Home
Windows 11 Home Single Language
Windows 11 DG Windows 10 Pro 64
Ubuntu Linux LTS

NPU*
Integrated Intel AI Boost, up to 11 TOPS

Graphics
Intel Arc Graphics eligible (integrated)
NVIDIA RTX 500 Ada Generation Laptop GPU
NVIDIA RTX 1000 Ada Generation Laptop GPU
NVIDIA RTX 2000 Ada Generation Laptop GPU
NVIDIA RTX 3000 Ada Generation Laptop GPU

Memory
Up to 96GB DDR5-5600, 2x SODIMM

Storage [1]
Up to two drives, 2x M.2 SSD
• M.2 2280 SSD up to 4TB, 2TB each
• RAID 0/1 support

[1]The storage capacity supported is based on the test results with current Lenovo storage offerings.

Audio*
High Definition (HD) Audio
Dolby Premium speakers
Dual-microphone array, far-field, Dolby Voice*

Camera*
5.0MP + IR with privacy shutter and Ultrasonic Human Presence Detection, temporal noise reduction
FHD 1080p with privacy shutter, fixed focus, temporal noise reduction

Battery [2]
90Wh battery, Rapid Charge

[2]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.

Power Adapter*
135W slim tip adapter
170W slim tip adapter

Design

Display [3]
16.0" WUXGA (1920x1200) IPS Anti-glare 16:10
- 300nits, 45% NTSC
- 300nits, 45% NTSC, TÜV Low Blue Light, Eyesafe Certified 2.0, touch
16.0" WUXGA (1920x1200) IPS Anti-glare 16:10
- 400nits, 100% sRGB, TÜV Low Blue Light
16.0" WQUXGA (3840x2400) IPS Anti-glare 16:10
- 800nits, 100% DCI-P3, TÜV Low Blue Light, Eyesafe Certified 2.0, X-Rite Factory Color Calibration, Dolby Vision, DisplayHDR 400

[3]IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Keyboard
6-row, spill-resistant, numeric keypad, backlight

Touchpad
TrackPoint and Mylar surface Trackpad,
67.6 x 115 mm (2.66 x 4.53 inches)

Dimensions [4]
365 x 262 x 24.66 mm (14.37 x 10.31 x 0.97 inches)

[4]The system dimensions may vary depending on configurations.

Weight [5]
Starting at 2.22 kg (4.90 lbs)

[5]The system weight is approximate and may vary depending on configurations

Color
Black

Case material
PC-ABS (top), PC-ABS (bottom)

Connectivity

Ethernet*
Gigabit onboard Ethernet

WLAN + Bluetooth* [6]
Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.3

[6]Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

WWAN*
4G LTE CAT16 with embedded eSIM
5G Sub-6 GHz with embedded eSIM
WWAN upgradable to 4G or 5G

NFC
Near Field Communication*

Ports
1x HDMI
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 DP 2.1
1x SD Express 7.0 card reader
1x Headphone / microphone combo jack (3.5mm)
1x GbE RJ-45
1x Smart card reader*
1x Nano-SIM card slot*

Docking
Docking support via Thunderbolt or USB-C

Security & Privacy

Security
Discrete TPM 2.0
Kensington Nano Security Slot
Smart card reader, supports ISO 7816 and EMV*
Touch style MOC fingerprint reader*
Camera privacy shutter*
IR camera for Windows Hello (facial recognition)*
Ultrasonic Human Presence Detection*

Manageability

System Management*
Intel vPro Enterprise*

Environmental

Material
85% PCC recycled plastic used in key caps
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery
30% PCC recycled plastic used in SIM tray
30% PCC recycled plastic used in 135W and 170W adapters
Plastic free packaging with 90% recycled and/or FSC certified content (retail / standard / bluk packaging)

Certifications

Green Certifications [7] [8] [9]
EPEAT Gold Registered
ENERGY STAR 9.0
TCO Certified 9.0
RoHS compliant

[7]The items listed under the "Green Certifications" sectio may not only refer to certification but also registration c self-declaration.

[8]EPEAT registration and ENERGY STAR certification are optional and only available on the models with preloaded OS.

[9]EPEAT is registered where applicable, please see epeat.net for registration status by country.

Items with * are optional and only available on selected models. Information presented here may represent the maximum possible configurations for this product, but it does not necessarily reflect what is available in your region. Please ask your rep or check the specifications for specific Part Numbers in your region. © 2025 Lenovo. Products are available while supplies last. Lenovo is not responsible for photographic or typographic errors. Lenovo, the Lenovo logo, ThinkPad, ThinkCentre, ThinkBook, ThinkStation and ThinkVision are trademarks or registered trademarks of Lenovo. 3rd party product and service names may be trademarks of others. Depending on factors such as the processing capability of peripheral devices, file attributes, system configuration and operating environments, the actual data transfer rate of USB connectors will vary and is typically slower than published standards.