ThinkPad P16v Gen 3 (Intel)

Experience top-tier performance with the new-gen workstation, powered by the latest Intel® H Series Core Ultra 9 Processor (Series 2) with Intel vPro® technology and an integrated NPU for superior performance and power efficiency. With discrete graphics options including the NVIDIA RTX PRO™ 500, 1000, and 2000 Blackwell Generation Laptop GPUs, creators, designers, and engineers can harness the latest neural rendering, ray tracing, and AI technology – anytime, anywhere. Supporting up to 96GB (2x 48GB DDR5 CSODIMM) memory enables seamless execution of complex workflows, including 8K video editing, large-scale 3D rendering, CAD simulations, and multi-application environments.

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.

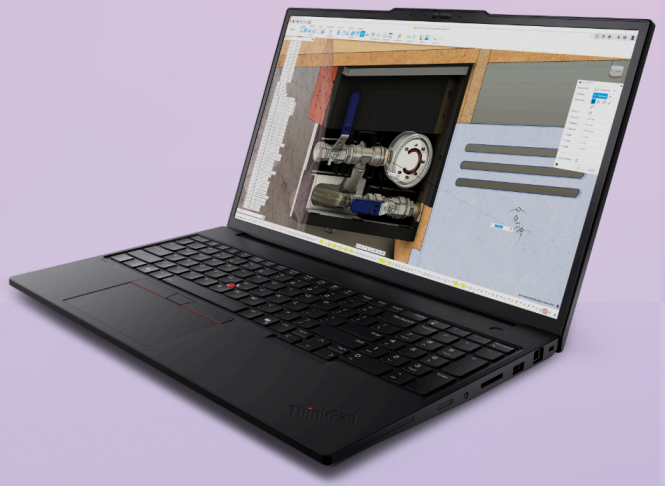
This workstation boasts a sleek, new chassis design with a stunning 16" WQUXGA display option. With ultra-narrow bezels and an exceptional 100,000:1 contrast ratio, it delivers both elegance and durability. For professionals requiring precise visuals, it also offers an optional 100% DCI-P3 color gamut, ensuring unmatched color accuracy and vibrancy.

With up to 96GB of memory (2×48GB DDR5 CSODIMM), users can seamlessly handle large datasets, complex spreadsheets, and multiple resource-intensive applications simultaneously, without noticeable slowdowns or performance bottlenecks. Additionally, up to 4TB SSD storage ensures faster loading times for statistical and other demanding software applications.

NVIDIA® RTX PRO 500, 1000, and 2000 discrete graphics deliver the performance creative professionals need for demanding tasks. From rendering 3D models to applying advanced filters and handling high-resolution imagery, these GPUs provide the processing power to keep workflows smooth and efficient.

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..



Return To Depot Repair Warranty

- No-hassle repair process at a Lenovo service center
- Lenovo pays for all shipping between the customer and service facility
- Avoid unplanned operational expense with a simple annual fee

Accessories

ThinkPad Thunderbolt 4 Workstation Dock

- Power delivery up to 230W to support ultra-performance mode on 2021 ThinkPad mobile workstations
- 2*DP1.4, 1*HDMI2.1, 1*TBT4 downstream video port, 1 x 8K@60Hz, or 4 x 4K@60Hz external displays
- 4 * USB A Gen 2 10Gbps data, 1 always-on charging port, 1 x USB C data port, 10Gbps, 5V x 3A power for mobile charging

PN: 40B00300xx

ThinkVision P34WD-40 Monitor

- Adaptive refresh rates for seamless visuals and efficiency
- Effortless multitasking with advanced split-screen technology
- Streamlined monitor management for IT professionals

ThinkPad P16v Gen 3 (Intel)

Performance

Processor
Intel H Series Core Ultra 5 / 7 / 9 Processor (Series 2)

AI PC Category*
AI-Ready Workstations

Operating System*
Windows 11 Pro
Windows 11 Home
Windows 11 Home Single Language
Ubuntu Linux
Red Hat Enterprise Linux (certified only)

NPU
Integrated Intel AI Boost, up to 13 TOPS

Graphics
NVIDIA RTX PRO 500 Blackwell Generation Laptop GPU
NVIDIA RTX PRO 1000 Blackwell Generation Laptop GPU
NVIDIA RTX PRO 2000 Blackwell Generation Laptop GPU

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

Storage [1]
Up to two M.2 2280 Gen 5 Performance SSD; up to 4TB total, 2TB each

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

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

Camera*
5.0MP + IR, with privacy shutter and optional Ultrasonic Human Presence Detection, temporal noise reduction
5.0MP with privacy shutter, 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*
140W USB-C GaN AC adapter, PD 3.1

Design

Display [3]
16" WUXGA (1920x1200) IPS Anti-glare,
- 400nits, 45% NTSC, 60Hz, TÜV Low Blue Light
16" WUXGA (1920x1200) IPS Anti-glare, 100% sRGB, 60Hz, Low Power,
- 500nits, Eyesafe, TÜV Low Blue Light
16" WQUXGA (3840x2400) OLED AGARAS,
- 400nits, 100% DCI-P3, 60Hz, Dolby Vision, Eyesafe, TÜV Low Blue Light, Touch

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

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

Touchpad
TrackPoint and Mylar surface TrackPad
67 x 115 mm (2.64 x 4.53 inches)

Dimensions [4]
361.5 x 248.6 x 12.8 / 19.55 (front / rear), 26.3 (maximum) mm
14.23 x 9.79 x 0.50 / 0.77 (front / rear), 1.04 (maximum) inches

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

Weight [5]
Around 2.1 kg (4.6 lbs)

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

Color
Black

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

Connectivity

Ethernet*
Gigabit onboard Ethernet

WLAN + Bluetooth* [6]
Intel Wi-Fi 7 BE201, 802.11be, Bluetooth 5.4

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

WWAN*
5G with embedded eSIM*

NFC
Near Field Communication*

Ports
2x Thunderbolt 4 (PD 3.1)
1x USB-A (USB 10Gbps / USB 3.2 Gen 2), Always On
1x USB-A (USB 10Gbps / USB 3.2 Gen 2)
1x HDMI 2.1, up to 8K/60Hz
1x Headphone / microphone combo jack (3.5mm)
1x Ethernet (GbE RJ-45)
1x SD Express 7.0 card reader
1x Security keyhole
1x Nano-SIM card slot (WWAN support models)*
1x Smart card reader*

Security & Privacy

Security
Discrete TPM 2.0
Kensington Nano Security Slot
Smart card reader*
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*

Certifications

Green Certifications [7] [8] [9]
ENERGY STAR 9.0
EPEAT Gold Registered
TCO Certified 10.0
RoHS compliant

[7]The items listed under the "Green Certifications" section may not only refer to certification but also registration or 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.

Other Certifications
Eyesafe Certified 2.0
TÜV Rheinland Low Blue Light
MIL-STD-810H

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.