ThinkPad P16 Gen 1

Up to 16 core-Intel Core i9 processors and onboard Intel UHD graphics, with discrete NVIDIA RTX GPU graphics, means it's designed to handle data-heavy and complex spreadsheets or statistical software.

Powerful NVIDIA RTX A5500 Laptop GPU graphics (discrete) in a 16" screen, plus with a strong 12th gen Intel Core processor, make it ideal for graphic designing and illustration.

Up to 12th generation Intel Core i9 processor, powerful graphics that include up to NVIDIA RTX A5500 Laptop GPU graphics and memory up to 128GB DDR5-4800 make it an excellent work device for video or animation work.

Professional machines for advanced users

This 16" thin and light mobile workstation is equipped with professional graphics, powerful processors, and ultra-fast SSD storage.

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..
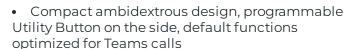
Premier Support

- Talk directly with advanced technical support agents
- Support for software & hardware
- Next business day onsite repairs

Accessories

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

Lenovo Essential Wireless Keyboard & Mouse Combo

- Simple design that is comfortable for all day use and tough enough to handle spills
- Convenient and easy to use wireless connection
- Quality typing experience with quiet key strokes and a full-size number pad

PN: 4X30M39458 - US English

ThinkPad P16 Gen 1

Performance

Processor
12th Gen Intel HX Series Core i5 / i7 / i9

Operating System
Windows 11 Pro
Windows 11 Home
Windows 11 Home Single Language
Windows 11 DG Windows 10 Pro 64
Fedora Linux
Ubuntu Linux
Red Hat Enterprise Linux (certified only)

Graphics
Intel UHD graphics (integrated)
NVIDIA RTX A1000 Laptop GPU
NVIDIA RTX A2000 Laptop GPU
NVIDIA RTX A3000 Laptop GPU
NVIDIA RTX A4500 Laptop GPU
NVIDIA RTX A5500 Laptop GPU

Chipset
Intel WM690 chipset

Memory
Up to 128GB DDR5-4800 ECC, 4x SO-DIMM

Storage [1]
Up to two drives, 2x M.2 SSD
• M.2 2280 SSD up to 8TB, 4TB 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
Stereo speakers, 2W x2, Dolby Atmos
Dual-microphone array, far-field, Dolby Voice

Camera*
FHD 1080p, with privacy shutter
FHD 1080p + IR hybrid, with privacy shutter

Battery
94Wh battery, Rapid Charge

Power Adapter*
170W slim tip adapter
230W slim tip adapter

Design

Display [2]
16.0" WUXGA (1920x1200) IPS Anti-glare 16:10
- 300nits, 100% sRGB, TÜV Low Blue Light,
X-Rite Factory Color Calibration

16.0" WQXGA (2560x1600) IPS Anti-glare 16:10
- 400nits, 100% sRGB, TÜV Low Blue Light,
 X-Rite Factory Color Calibration

16.0" WQUXGA (3840x2400) IPS Anti-glare 16:10
- 600nits, 100% Adobe RGB, X-Rite Factory Color
 Calibration, TÜV Low Blue Light, Dolby Vision,
 DisplayHDR 400

16.0" WQUXGA (3840x2400) OLED ARAS 16:10
- 400nits, 100% DCI-P3, X-Rite Factory Color
 Calibration, TÜV Low Blue Light, Dolby Vision,
 HDR 500 True Black, OGM multi-touch

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

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

Touchpad
TrackPoint and glass-like Mylar surface touchpad
67.6 x 115 mm (2.66 x 4.53 inches)

Dimensions [3]
364 x 266 x 30.23 mm (14.3 x 10.5 x 1.2 inches)

[3]*The system dimensions may vary depending on configurations.*

Weight [4]
Starting at 2.95 kg (6.5 lbs)

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

Case material
AL5052 (top), PPS + 50% GF (bottom)

Connectivity

Ethernet
Ethernet support via optional Lenovo USB-C to
Ethernet Adapter
USB-C to GbE RJ-45 Dongle*
USB-C to 2.5GbE RJ-45 Dongle*

WLAN + Bluetooth* [5] [6]
Intel Wi-Fi 6E AX211, 802.11ax, Bluetooth 5.1

[5]*Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.*

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

WWAN*
Up to 4G LTE CAT16 with embedded eSIM*

NFC
Near Field Communication*

Ports
1x HDMI
1x USB 3.2 Gen 1
1x USB 3.2 Gen 1 (one Always On)
1x USB-C 3.2 Gen 2 (data, PD 3.0, DP 1.4)
2x Thunderbolt 4 / USB4 40Gbps (data, PD 3.0, DP 1.4)
1x SD Express 7.0 card reader
1x Headphone / microphone combo jack (3.5mm)
1x GbE RJ-45, via USB-C to RJ-45 dongle*
1x 2.5GbE RJ-45, via USB-C to RJ-45 dongle*
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*
Touch style MOC fingerprint reader
Camera privacy shutter*
IR camera for Windows Hello (facial recognition)*

Manageability

System Management* [7]
Intel vPro Enterprise*

[7]*Intel vPro offers a superset of DASH's defined capabilities*

Certifications

Green Certifications [8] [9] [10]
EPEAT Gold Registered
ENERGY STAR 8.0
TCO Certified 9.0
RoHS compliant

[8]*The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.*

[9]*EPEAT registration and ENERGY STAR certification are dependent on system OS.*

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

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