

ThinkPad P16 Gen 1

Performance Unpacked



Introducing the ThinkPad P16, a power-packed mobile workstation built for the ultimate professional user. Packed with a new class of Intel® Core™ processors and unmatched NVIDIA RTX™ A5500 graphics support, the P16 is built for those who demand the highest level of power and performance, all in a 16-inch modernized design.

Processor:

5.0GHz
16 Cores

12th Gen Intel Core i5, i7, i9
HX-Series
5.0GHz Max Turbo P-cores

Graphics:

NVIDIA
RTX A5500

Choice of discrete or
integrated graphics

Memory:

128GB
DDR5

4x SoDIMMs
ECC or non-ECC

Storage:

8TB M.2
PCIe Gen4

Up to two 4TB NVMe
Performance SSDs

Features



New Modernized Design
Built with sustainable materials and certifications



16" 16:10 Display
Four high quality options to suit your budget



Security
The latest security features including dTPM 2.0, an embedded chip dedicated to storing encryption keys



ISV Certifications
Certified by many of the leading industry software applications

Lenovo ThinkPad P16 Gen 1 Product Specifications[^]

Performance

Processor

12th Gen Intel® Core™ i5, i7, i9 HX-Series (up to 16 cores, up to 5.0GHz¹)

Graphics

Discrete: up to NVIDIA RTX™ A5500 16GB VRAM

Processor Integrated: Intel UHD Integrated Graphics²

Total Memory

Up to 128GB DDR5 4800MHz³

Memory DIMM Capacity

16GB / 32GB ECC
8GB / 16GB / 32GB non-ECC
4 SoDIMM slots

Total Storage

Up to 8TB M.2 PCIe Gen4 NVMe Performance SSD

Up to 2 drives

RAID

0/1

Camera

FHD Camera with ThinkPad Webcam Privacy Shutter

FHD Hybrid IR⁴ Camera with ThinkPad Webcam Privacy Shutter

Battery

94Whr

Power Supply

170W Slim

230W Slim

Design

Dimensions (WxDxH)

(mm): 364 x 266 x 30.23

(inches): 14.3 x 10.5 x 1.2

Weight

Starting at 6.5lbs (2.95kg)

Keyboard

ThinkPad Keyboard with Numeric Keypad, Backlit, Spill Resistant

Display

16" 16:10 Display

WQUXGA (UHD+) (3840x2400)

- OLED Touch, 400nit, AR-AS, 100% DCI-P3, Low Blue Light, HDR500 True Black, Dolby Vision HDR, X-Rite FCC

- IPS, 600nit, AG, 100% Adobe, Low Blue Light, HDR400, Dolby Vision HDR, X-Rite FCC

WQXGA (QHD+) (2560 x 1600)

- IPS, 400nit, AG, 100% sRGB, Low Blue Light, X-Rite FCC

WUXGA (FHD+) (1920 x 1200)

- IPS, 300nit, AG, 100% sRGB, Low Blue Light, X-Rite FCC

Connectivity

Ports

(2) USB-A 3.2 Gen 1*, 1 Always On

(2) USB-C Thunderbolt 4

(1) USB-C 3.2 Gen 2

(1) HDMI 2.1[^]

(1) Mic/Headphone Combo Jack

(1) Smart Card Reader⁴

WLAN

Intel Wi-Fi 6E AX211 (2x2ax) + Bluetooth™ 5.2 vPro⁵

WWAN

Fibocom L860-GL 4G LTE CAT16 with eSIM⁴

Near Field Communication (NFC)⁴

Media Card Reader

SD Express 7.0 Card Reader

¹ Max Turbo Boost: P-Cores 5.0GH, E-cores 3.60 GHz

² Dual RAM channel required

³ Native 4800MHz, Actual 4000MHz

⁴ Optional

⁵ 6GHz channel of Wi-Fi 6E is only available with Windows 11

[^] For a full list of configuration details please visit: <https://psref.lenovo.com>

* USB port transfer speeds are approximate and depend on many factors, such as processing capability of host/peripheral devices, file attributes, system configuration and operating environments; actual speeds will vary and may be less than expected.

**Smarter
technology
for all**

Lenovo

Lenovo Options & Accessories



ThinkVision P40w Display



ThinkPad Workstation Thunderbolt™ 4 Dock



ThinkReality A3 XR1 3G+32G

For a full list of accessories and options, please visit: accsmartfind.lenovo.com

For more details on ThinkStation and ThinkPad, please visit: lenovo.com/thinkworkstations

Visit us on social media: [#lenovoworkstations](https://twitter.com/lenovoworkstations)



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Lenovo ThinkPad P16 Gen 1 General Specifications[^]

Software

Operating System

Windows 11 Pro
Windows 11 Home
Windows 10 Pro (preinstalled Through downgrade rights in Windows 11 Pro)
Ubuntu® Linux^{o1}
Red Hat® Enterprise Linux® (certified)
Fedora® Linux

Windows Preloads

Lenovo Commercial Vantage

Additional Features

Ultra Performance Mode
Self Healing BIOS

ISV Certifications

Including ArcGIS®, AutoCAD®, CATIA®, Creo®, Inventor®, Microstation®, NX®, Solid Edge®, SolidWorks®, Vectorworks®, Petrel®, Decision Space®, 3dsMax®, Maya®

For a complete list of ISV certifications visit <http://www.thinkworkstations.com/isv-certifications/>

Security

ThinkShield

dTPM 2.0
Touch Fingerprint Reader
ThinkPad Webcam Privacy Shutter
Kensington Lock Slot

Sustainability

Certifications

EPEAT^{o2} Gold
ENERGY STAR
RoHS Compliant
TCO 9.0

Recommended Services

Lenovo offers a comprehensive portfolio of services to support and protect your ThinkPad investment—so you can focus on your business, not your IT.

Premier Support

Bypass phone menus and scripted troubleshooting to access advanced-level technicians with the expertise needed to quickly diagnose and solve problems.

Warranty Extensions (1 to 5 years total duration)

This fixed-term, fixed-cost service helps you accurately budget for PC expenses, protect your valuable investment, and potentially lower the cost of ownership over time.

Warranty Upgrades—

Onsite and Next Business Day

Maximizes PC uptime and productivity by providing convenient, fast repair service the next business day.

¹ Select Versions Available Via Preload

² Certification Available on Select Models; EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country

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