

# 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**

12<sup>th</sup> 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<sup>^</sup>

## Performance

### Processor

12<sup>th</sup> Gen Intel® Core™ i5, i7, i9 HX-Series (up to 16 cores, up to 5.0GHz<sup>1</sup>)

### Graphics

Discrete: up to NVIDIA RTX™ A5500 16GB VRAM

Processor Integrated: Intel UHD Integrated Graphics<sup>2</sup>

### Total Memory

Up to 128GB DDR5 4800MHz<sup>3</sup>

### 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 IR<sup>4</sup> 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<sup>^</sup>

(1) Mic/Headphone Combo Jack

(1) Smart Card Reader<sup>4</sup>

### WLAN

Intel Wi-Fi 6E AX211 (2x2ax) + Bluetooth™ 5.2 vPro<sup>5</sup>

### WWAN

Fibocom L860-GL 4G LTE CAT16 with eSIM<sup>4</sup>

Near Field Communication (NFC)<sup>4</sup>

### Media Card Reader

SD Express 7.0 Card Reader

<sup>1</sup> Max Turbo Boost: P-Cores 5.0GH, E-cores 3.60 GHz

<sup>2</sup> Dual RAM channel required

<sup>3</sup> Native 4800MHz, Actual 4000MHz

<sup>4</sup> Optional

<sup>5</sup> 6GHz channel of Wi-Fi 6E is only available with Windows 11

<sup>^</sup> 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

PN: 40B00135xx



Lenovo Go Wireless ANC Headset

PN: 4XDIC99221

For a full list of accessories and options, please visit: [accsmartfind.lenovo.com](https://accsmartfind.lenovo.com)

For more details on ThinkStation and ThinkPad, please visit: [lenovo.com/thinkworkstations](https://lenovo.com/thinkworkstations)

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



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## Lenovo ThinkPad P16 Gen 1 General Specifications<sup>^</sup>

### Software

#### Operating System

Windows 11 Pro

Windows 11 Home

Windows 10 Pro (preinstalled Through downgrade rights in Windows 11 Pro)

Ubuntu® Linux<sup>o1</sup>

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<sup>o2</sup> 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.

<sup>1</sup> Select Versions Available Via Preload

<sup>2</sup> Certification Available on Select Models; EPEAT registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country

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

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