

Lenovo
ThinkPad

Lenovo ThinkPad P1 Gen 7

The Power You Need, the Machine You Want

Lenovo



The ThinkPad P1 is Lenovo's ultra sleek, best-in-class performance mobile workstation for those machine learning workloads, and on-the-go flexibility to work anywhere at any time. The new aluminum sustainable design hints at what's inside; Lenovo's AI Ready mobile workstation which offers unmatched power and performance from the latest Intel vPro®, Intel® Evo™ Edition featuring Intel® Core™ Ultra processors, integrated Neural Processing Unit (NPU) and featuring up to NVIDIA RTX™ 3000 Ada Generation mobile GPU. With the combination of the CPU, NPU & GPU, Lenovo mobile workstations will inevitably out-perform in all your complex AI workflows.

Processor:

**5.1GHz
16 Cores**

Intel® Core™ Ultra processors
with Intel vPro®

Graphics:

**NVIDIA RTX™
3000 Ada**

High-performance professional
graphics and AI acceleration

Memory:

**64GB
LPDDR5x**

7467MT/s LPCAMM2¹

Storage:

**8TB M.2
PCIe® Gen4**

Up to two 4TB NVMe
Performance SSDs

Features



Sustainable Design
Built with sustainable materials and certifications



16" 16:10 Display
Three high quality options to suit your budget including OLED Touch



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 P1 Gen 7 Product Specifications[^]

Performance

Processor

Up to Intel® Core™ Ultra 9 processors with Intel vPro® (up to 16 cores, up to 5.1GHz)[^]

Graphics

Discrete

Up to NVIDIA RTX™ 3000 Ada Generation 8GB mobile GPU

Up to NVIDIA® GeForce® RTX 4070 8GB mobile GPU

Processor Integrated
Intel® Arc™2

Total Memory

Up to 64GB LPDDR5x 7467MT/s¹

Memory LPCAMM2 Capacity

16GB / 32GB / 64GB
Customer Replaceable

Total Storage

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

Up to 2 x 4TB drives

RAID

0/1

Camera

5MP RGB + IR Hybrid Camera with ThinkPad Webcam Privacy Shutter and Human Presence Detection

Battery

90Whr, Customer Replaceable

Power Supply

135W Slim, 170W Slim

Design

Dimensions (WxDxH)

(mm): 354.40 x 241.20 x 17.05
(inches): 13.95 x 9.49 x 0.67

Weight

Starting at 1.82kg / 4.03lbs

Keyboard

ThinkPad Keyboard Backlit, Spill Resistant

Display

16" 16:10 Display

WQUXGA (UHD+) (3840x2400)

- OLED Touch, 400nit, 100% DCIP3, Anti-Reflective/Anti-Smudge, HDR400, Dolby Vision®, X-Rite FCC, Low Blue Light, TÜV, Eyesafe®

WQXGA (QHD+) (2560 x 1600)

- IPS, 500nit, 165Hz, 100% sRGB, Anti-Glare, X-Rite FCC, Low Blue Light

WUXGA (FHD+) (1920 x 1200)

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

Connectivity

Ports

- (1) USB-A (5Gbps)*
- (1) USB-C® (10Gbps)*
- (2) USB-C (Thunderbolt™ 4)
- (1) SD Express 7.0 Card Reader
- (1) HDMI 2.1
- (1) Audio Jack

Wireless Connectivity

Intel® Wi-Fi® 7 BE200 802.11be + Bluetooth® 5.4 vPro^{3,4}

Near Field Communication (NFC)⁵

Media Card Reader

SD Express 7.0 Card Reader

¹ Memory spec frequency listed; system support frequency may vary by configuration

² Dual RAM channel required

³ Bluetooth may be limited by OS

⁴ Wi-Fi 7 is only available with Windows 11

⁵ Optional

[^] 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.



Unlock new AI experiences



Smarter
technology
for all

Lenovo

Lenovo Options & Accessories



ThinkVision P32pz-30 Display



ThinkPad Workstation Thunderbolt™ 4 Dock



ThinkReality VRX



Scan for system overview, supported components, and technical specifications.

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

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

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



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Lenovo ThinkPad P1 Gen 7 General Specifications[^]

Software

Operating System

Windows 11 Pro
Windows 11 Home
Ubuntu® Linux^{®1}
Red Hat® Enterprise Linux^{®2}
Fedora® Linux¹
Debian® Linux¹

Windows Preloads

Intel® Unison™ Application
Lenovo Commercial Vantage

Additional Features

Ultra Performance Mode
Self Healing BIOS

ISV Certifications

Including Adobe®, Altair®, AVID®, Autodesk®, ANSYS®, Barco®, Bentley®, Dassault®, Esri®, Nemetschek®, PTC®, Siemens®

For a complete list of ISV certifications visit <https://thinkworkstations.com/>

Security

Intel vPro® security
ThinkShield
dTPM 2.0
Touch Fingerprint Reader
ThinkPad Webcam Privacy Shutter
Kensington Lock Slot

Sustainability

Materials

90% Recycled Magnesium C Cover
75% Recycled Aluminum A Cover
55% Recycled Aluminum D Cover
50% PCC Plastic D Cover (Attached Internal Components)
30% PCC Plastic 135W AC Adapter
30% PCC Plastic 170W AC Adapter
28% Total PCC Plastic
Low Temperature Solder³
Plastic Free Packaging with 90% Recycled and/or FSC Certified Content^{4,5}

Certifications

EPEAT^{®6,7} Gold
ENERGY STAR^{®7}
RoHS Compliant
TCO 9.0

Recommended Services

Lenovo's Premier Support Plus

delivers advanced anywhere, anytime seamless support with AI-powered, proactive and preventative services. Also includes Accidental Damage Protection, extended battery warranty (for eligible devices) and Keep Your Drive. You'll minimize downtime, boost productivity, enhance the experience, and free up in-house IT resources from break/fix maintenance.

Warranty Extensions & Upgrades

Lenovo offers a range of warranty upgrades to suit your business needs, such as next business day upgrades. Warranty extensions allow you to control your device budget, protect your investment and potentially lower the cost of ownership over time.

Lenovo's Asset Recovery Services

(ARS) enables secure destruction of data, helps reduce e-waste, and offers a fair market value for your end-of-life IT assets. The service also supports equipment from any manufacturer including PCs & tablets, monitors, servers, phones, printers, copiers and networking equipment.

Lenovo CO₂ Offset Service makes offsetting carbon emissions simple and within the control of the customer. We offset the carbon emissions across the average lifecycle associated with each of our devices by providing the option at point of purchase. These offsets help support climate action projects verified by United Nations, Gold Standard®, and Climate Action Reserve.

1 Select versions available via preload

2 Red Hat Enterprise Linux select versions certified

3 SSD, fingerprint reader module

4 Product packaging shall contain, on average, a minimum total percentage of 90% by weight of any combination of the following materials: Recycled content, biobased plastic, non-wood biobased fiber material, and/or sustainably forested material.

5 Standard / bulk

6 EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country

7 Certification available on select models

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



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