

Lenovo
ThinkPad

Lenovo ThinkPad P1 Gen 8

Refined Design. Relentless Performance.

Lenovo



intel
vPRO

That's the power of Intel Inside®

The Lenovo ThinkPad P1 combines exceptional power with sleek design. Featuring the latest Intel® Core™ Ultra processors (Series 2) with Intel vPro® technology, an integrated NPU for enhanced AI processing, and up to the NVIDIA RTX PRO™ 2000 Blackwell Generation Laptop GPU, it offers power users unmatched portability and enhanced productivity. With its sustainable aluminum chassis and ultra-narrow bezels, it's a sophisticated solution for professionals running demanding ISV workloads on the go—perfect for content creators, AI developers, and CAD specialists who require high performance in a thin and light mobile form factor.

Processor:

**5.4GHz
16 Cores**

Intel Core Ultra
Processors (Series 2)

Graphics:

**RTX PRO 2000
Blackwell**

High-performance professional
graphics and AI acceleration

Memory:

**64GB
LPDDR5x**

7467 MT/s LPCAMM2¹

AI:

**671
TOPS**

CPU package: up to 99 TOPS
GPU: up to 572 TOPS
Total: up to 671 TOPS

Features



Modernized Design

Combines style and sustainability with ultra-narrow bezels and an aluminum chassis.



16" 16:10 Display

Three high quality options to suit your budget including new Tandem OLED panel for increased brightness, high refresh rate, and excellent color reproduction.



Accelerate Creativity with AI

Optimized for machine learning and generative AI workflows, empowering creators to build, iterate, and innovate faster.



Reliable Wireless Connectivity

Intel Wi-Fi 7 (5 Gig) delivers enhanced bandwidth and reduced latency for seamless streaming, gaming, and productivity.

Lenovo ThinkPad P1 Gen 8 Product Specifications[^]

Performance

Processor

Intel Core Ultra Processors (Series 2)
H-Series (up to 16 cores, up to 5.4GHz)[^]

Graphics

Discrete

Up to NVIDIA RTX PRO 2000 Blackwell
Generation Laptop GPU

Processor Integrated

Intel® Arc™ Pro

AI

CPU: up to 9 TOPS

NPU: 13 TOPS

iGPU: up to 77 TOPS

dGPU: up to 572 TOPS

Total: up to 671 TOPS

Total Memory

Up to 64GB LPDDR5x 7467MT/s¹

Memory LPCAMM2 Capacity

16GB / 32GB / 64GB

Customer Replaceable

Total Storage

Up to 8TB M.2 PCIe® Gen5 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

140W PD 3.1 Type-C

Design

Dimensions (Width x Depth x Front / Rear, Max)

354.3 x 241.0 x 9.9 / 15.8, 20.6mm

13.95 x 9.49 x 0.39 / 0.62, 0.81in

Weight

Starting at 1.84kg / 4.06lbs

Keyboard

ThinkPad Keyboard Backlit, Spill
Resistant

Display

16" 16:10 Display

3.2K (3200 x 2000)

- Tandem OLED Touch, SDR 600nit /
HDR 1500nit, 40-120Hz VRR, 100%
DCI-P3, Anti-Glare/Anti-Reflective/
Anti-Smudge, HDR600, Dolby Vision®,
X-Rite FCC, TÜV Eyesafe® Low Blue
Light, with Pen Support

WQUXGA (UHD+) (3840x2400)

- IPS, 800nit, 100% DCI-P3, Anti-Glare,
HDR 400, Dolby Vision, X-Rite FCC,
TÜV Eyesafe Low Blue Light

WUXGA (FHD+) (1920 x 1200)

- IPS, Low Power, 500nit, 100% sRGB,
Anti-Glare, X-Rite FCC, TÜV Eyesafe
Low Blue Light

Connectivity

Ports

(1) USB-A (10Gbps)*

(1) USB-C® (Thunderbolt™ 4)⁴

(2) USB-C (Thunderbolt 5)

(1) SD Express 7.0 Card Reader

(1) HDMI® 2.1

(1) Audio Jack

Wireless Connectivity

Intel Wi-Fi® 7 BE201 (2x2) +
Bluetooth® 5.4²

Near Field Communication (NFC)³

Media Card Reader

SD Express 7.0 Card Reader

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

² Bluetooth may be limited by OS

³ Optional

⁴ Modular, port is replaceable

[^] 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.



That's the power of Intel Inside®

Smarter
technology
for all

Lenovo

Lenovo Options & Accessories



ThinkVision P32UD-40 Display



ThinkPad Thunderbolt™ 5 Smart Dock 7500



Meta Quest 3 Mixed Reality VR Headset



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 8 General Specifications[^]

Software

Operating System

Windows 11 Pro
Windows 11 Home
Ubuntu® Linux^{*1}
Red Hat® Enterprise Linux^{*2}
Fedora® Linux¹
Debian® Linux³

Windows Preloads

Lenovo Commercial Vantage
Lenovo View
Lenovo AI Now

Additional Features

Ultra Performance Mode
Self Healing BIOS

ISV Certifications

Including 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
Human Presence Detection⁴

Sustainability

Materials

90% Recycled Magnesium Aluminum C Cover
75% Recycled Aluminum A Cover
55% Recycled Aluminum D Cover
50% PCC Plastic D Cover (Attached Internal Components)
90% PCC Plastic 140W AC Adapter
46% Total PCC Plastic
Low Temperature Solder⁵
Plastic Free Packaging with 90% Recycled and/or FSC Certified Content^{6,7}

Certifications

EPEAT®^{8,9} Gold
ENERGY STAR®⁹
RoHS Compliant
TCO 10.0

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 Debian Linux select versions qualified

4 Optional

5 SSD, fingerprint reader module, motherboard

6 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.

7 Standard / bulk

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

9 Certification available on select models

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



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