Lenovo
ThinkPad

Lenovo

Lenovo ThinkPad P1 Gen 8
Refined Design. Relentless Performance.

intel
CORE
ULTRA

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 LPCAMM2[1]

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/s[1]

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 × 241.0 × 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, 600nit, 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® 5.4[2]

Near Field Communication (NFC)[3]

Media Card Reader
SD Express 7.0 Card Reader

Smarter technology for all

Lenovo

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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

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® Linux[1]
Debian® Linux[3]

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 Detection[4]

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 Solder[5]
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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