

Lenovo
ThinkPad

Lenovo ThinkPad P1 Gen 7 EMEA version April 2024
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

WQXGA (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)



April 2024 ©Lenovo. All rights reserved. Lenovo is not responsible for photographic or typographic errors. Lenovo makes no representation or warranty regarding third-party products or services. LENOVO, ThinkStation, and ThinkPad are trademarks of Lenovo.

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>



NVIDIA® is a trademark and/or registered trademark of NVIDIA Corporation in the U.S. and other countries. Intel®, Intel vPro®, Core™, Arc®, and Thunderbolt™ are trademarks of Intel Corporation or its subsidiaries. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. Ubuntu is a registered trademark of Canonical Ltd. Microsoft and Windows are registered trademarks of Microsoft Corporation. USB-C® is a registered trademark of USB Implementers Forum. Other company, product, and service names may be trademarks or service marks of others.

