ThinkPad P1 Gen 8 21Q80003MH

PSREF
Product Specifications Reference

PERFORMANCE

Processor
Intel® Core Ultra 7 255H, 16C (6P + 8E + 2LPE) / 16T, Max Turbo up to 5.1GHz, 24MB

AI PC Category
AI-Ready Workstations

NPU
Integrated Intel® AI Boost, up to 13 TOPS

Graphics
NVIDIA® RTX PRO 2000 Blackwell Generation 8GB GDDR7 Laptop GPU

Chipset
Intel® SoC Platform

Memory
32GB LPCAMM2 LPDDR5x-7467

Memory Slots
One LPCAMM2 connector, dual-channel

Max Memory
Up to 64GB (1x 64GB LPCAMM2), upgradable

Storage
1TB SSD M.2 2280 PCIe® 5.0x4 Performance NVMe® Opal 2.0

Storage Slot
Two M.2 2280 PCIe® 4.0 x4 slots

Max Storage Support[1]
Up to two M.2 2280 Gen 5 Performance SSD; up to 8TB, 4TB each

RAID Preset
None

Card Reader
SD Express 7.0 Card Reader

Audio Chip
SoundWire®, Cirrus Logic® CS42L43 codec

Speakers
Stereo speakers, 2W x2, Dolby Atmos®

Microphone
2x, Array

Camera
5.0MP + IR with Privacy Shutter and Computer Vision Human Presence Detection on ISP

Battery
90Wh

Power Adapter
140W USB-C® GaN (3-pin)

DESIGN

Display
16" 3.2K (3200x2000) Tandem OLED 600nits Anti-glare / Anti-reflection / Anti-smudge, 100% DCI-P3, 40-120Hz, DisplayHDR™ 600, Dolby Vision®, Eyesafe®, TÜV Low Blue Light, Touch

Touchscreen
Add-on Film Touch, 10-point Multi-touch

Screen-to-Body Ratio
90.9% (Tandem OLED models)

Color Calibration
X-Rite® Factory Color Calibration

Pen
Lenovo® Yoga® Pen

Keyboard
Backlit, English (EU)

Dimensions (WxDxH)[2]
354.3 × 241.0 × 9.9 / 15.8 (front / rear), 20.6 (maximum) mm 13.95 x 9.49 x 0.39 / 0.62 (front / rear), 0.81 (maximum) inches

Weight[3]
Starting at 1.84 kg / 4.06 lbs

Case Color
Black

Case Material
Aluminium (Top), Aluminium (Bottom)

SOFTWARE

Operating System
Windows® 11 Pro, WE (EN/FR/DE/NL/IT)

Bundled Software
Intel® Connectivity Performance Suite + Lenovo® AI Now

CONNECTIVITY

WLAN + Bluetooth
Intel® Wi-Fi® 7 BE201, 802.11be 2x2 + BT5.4

WWAN
Non-WWAN

SIM Card
None

Ethernet
No Onboard Ethernet

Standard Ports
- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2), Always On
- 2x Thunderbolt™ 5, with USB PD 3.1 and DisplayPort™ 2.1, 140W input / 15W output
- 1x Thunderbolt™ 4, with DisplayPort™ 2.1 and USB PD 3.1, 140W input / 15W output
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD Express 7.0 card reader

Docking
Various docking solutions supported via Thunderbolt™ or USB-C®. For more compatible docking solutions, please visit Docking for ThinkPad P1 Gen 8

SECURITY & PRIVACY

Security Chip
Discrete TPM 2.0 Enabled

Physical Locks
Kensington® Nano Security Slot, 2.5 x 6 mm

Fingerprint Reader
Touch Style, Match-on-Chip, Integrated in Power Button

Other Security
- Bottom cover tamper detection
- Camera privacy shutter
- Computer Vision-based User Presence Sensing on Image Signal Processor (ISP)
- IR camera for Windows® Hello (facial recognition)

MANAGEABILITY

System Management
Non-vPro®

SERVICE

Base Warranty
3-year, Courier or Carry-in with 1-year Battery

Included Upgrade
3Y Premier TP WS WHB (CPN), CO2 Offset 0.5 ton (2nd Generation Carbon Offset Projects)

ACCESSORIES

CERTIFICATIONS

ISV Certifications
Please visit ISV certifications for Lenovo® Workstations

Green Certifications
- ENERGY STAR® 9.0
- EPEAT™ Gold Registered
- RoHS compliant
- TCO Certified, generation 10

Mil-Spec Test
MIL-STD-810H military test passed

Other Certifications
- Eyesafe® Certified 2.0
- Intel® Evo™ Platform
- TÜV Rheinland® Low Blue Light

MODEL

TopSeller : Yes
EAN / UPC / JAN: 0199272086505
Announce Date: 2025-09-05
End of Support : 2032-04-25

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Premier Support - A direct 24x7x365 line to our most elite technicians.

- Advanced technical support, 24x7x365, in more than 100 markets
- Comprehensive hardware & OEM software support
- Single point of contact for simplified end-to-end case management
- Technical Account Managers for proactive relationship and escalation management
- Priority on service delivery and repair parts
- Lenovo Service Connect Portal for customized reporting and product support

Accidental Damage Protection - Protection of your PC from the unexpected.

Experience shows that a significant portion of devices may be damaged (and not covered under warranty) in the first three years. Lenovo's Accidental Damage Protection service covers accidents beyond the system warranty such as drops, spills, bumps and even electrical surges. Make sure your new device has maximum protection, avoid unplanned costs and get peace of mind.

Base Warranty - Included with the systems you purchase, default 1- or 3-year coverage window.

Warranty Extensions & Upgrades - Service and protection that's right for your circumstances.

- Pick Up & Return Courier
- Onsite Support
- Technician Installed Customer
- Replaceable Unit Service
- International Warranty Upgrade

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Recommended Accessories



Lenovo Dual-Mode Wireless ANC Headset 6550 (USB-C, Teams) 4XD1S19778



Lenovo Legion 17" Gaming Backpack GB800 (Black) GX41U39299

Please click here to view the full list of accessories.

Recommended Services

BEST	5Y Premier Support upgrade from 3Y Premier Support (5WS0W86655)
BETTER	4Y Premier Support upgrade from 3Y Premier Support (5WS0W86674)

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