

ThinkPad P1 Gen 7

PSREF

Product Specifications
Reference

PERFORMANCE

Processor
Intel® Core™ Ultra 9 185H, 16C (6P + 8E + 2LPE) / 22T, Max Turbo up to 5.1GHz, 24MB
AI PC Category
AI-Ready Workstations
NPU
Integrated Intel® AI Boost, up to 11 TOPS
Graphics
NVIDIA® GeForce RTX™ 4070 8GB GDDR6
Chipset
Intel® SoC Platform
Memory^[1]
64GB LPCAMM2 LPDDR5x-7500
Memory Slots
One LPCAMM2 connector, dual-channel
Max Memory
Up to 64GB (1x 64GB LPCAMM2), upgradable
Storage
2TB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal 2.0
Storage Support
Up to two drives, 2x M.2 SSD
• M.2 2280 SSD up to 8TB, 4TB each
• RAID 0/1 support
Storage Slot
Two M.2 2280 PCIe® 4.0 x4 slots
Card Reader
SD 7.0 Card Reader
Audio Chip
High Definition (HD) Audio, Realtek® ALC3306 codec
Speakers
Stereo speakers, 2W x2, Dolby Atmos®
Camera
5.0MP + IR with Privacy Shutter and Human Presence Detection
Microphone
2x, Array
Battery
90Wh
Power Adapter
170W Slim Tip (3-pin)
DESIGN
Display
16" WQXGA (2560x1600) IPS 500nits Anti-glare, 100% sRGB, 165Hz, TÜV Low Blue Light
Color Calibration
Factory Color Calibration

Keyboard
Backlit, Bulgarian
Case Color
Black
Case Material
Aluminium (Top), Aluminium (Bottom)
Pen
Pen Not Supported
Dimensions (WxDxH)
354.4 x 241.2 x 17.05 mm (13.95 x 9.49 x 0.67 inches)
Weight
Starting at 1.82 kg (4.03 lbs)
SOFTWARE
Operating System
Windows® 11 Pro, English
Bundled Software
Intel® Connectivity Performance Suite
CONNECTIVITY
WLAN + Bluetooth®
Intel® Wi-Fi® 7 BE200, 802.11be 2x2 + BT5.4
WWAN
Non-WWAN
SIM Card
No physical SIM card inbox
Ethernet
No Onboard Ethernet
Standard Ports
• 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
• 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 (135W input) and DisplayPort™ 1.4
• 2x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 (135W input) and DisplayPort™ 2.1
• 1x HDMI® 2.1, up to 8K/60Hz or 4K/240Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x SD Express 7.0 card reader
• 1x Security keyhole
Docking
Various docking solutions supported via Thunderbolt™ or USB-C®.
For more compatible docking solutions, please visit Docking for ThinkPad® P1 Gen 7
SECURITY & PRIVACY
Smart Card Reader
No smart card reader
Security Chip
Discrete TPM 2.0 Enabled

Fingerprint Reader
Touch Style, Match-on-Chip, Integrated in Power Button
Physical Locks
Kensington® Nano Security Slot™, 2.5 x 6 mm
Other Security
• Bottom cover tamper detection
• Camera privacy shutter (camera models)
• Ultrasonic Human Presence Detection for IR camera
• IR camera for Windows® Hello (facial recognition)
MANAGEABILITY
System Management
Intel® vPro® Enterprise
SERVICE
Base Warranty
3-year, Courier or Carry-in
Included Upgrade
3Y Premier TP WS WHB (CPN), CO2 Offset 0.5 ton (2nd Generation Carbon Offset Projects)
CERTIFICATIONS
Green Certifications
• ENERGY STAR® 8.0
• EPEAT™ Gold Registered
• RoHS compliant
• TCO Certified 10.0
Other Certifications
• Intel® Evo™ Platform
• TÜV Rheinland® Low Blue Light
Mil-Spec Test
MIL-STD-810H military test passed
ISV Certifications
Please visit ISV certifications for Lenovo® Workstations
MODEL
TopSeller : Yes
Announce Date : 2024-05-28
EAN / UPC / JAN : 0198153493708
End of Support : 2030-12-28
Note:
^[1] System comes with LPDDR5x-7500 modules and will run at 7467 MT/s due to platform limitations.
• Lenovo reserves the right to change specifications without notice.
To see more note information, please link to https://psref.lenovo.com/Detail/2505?M=21KV0029BM

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

Advanced technical support, 24x7x365, in more than 100 markets

Technical Account Managers for proactive relationship and escalation management

Comprehensive hardware & OEM software support

Priority on service delivery and repair parts

Single point of contact for simplified end-to-end case management

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

ThinkPad Universal USB-C Dock

THE SMARTER WAY TO WORK Introducing the ThinkPad Universal USB-C Dock. This advanced, universally compatible one-cable docking solution lets you work smarter, not harder. It comes with a vast array of ports, next-gen ...

Recommended Services

BEST	5Y Premier Support upgrade from 3Y Premier Support (5WS0W86655)
BETTER	4Y Premier Support upgrade from 3Y Premier Support (5WS0W86674)
GOOD	3Y Sealed Battery Add On (5WS0V07085)

For a full list of accessories and services, please visit:
<https://smartfind.Lenovo.com>

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