

ThinkPad P1 Gen 7

PSREF

Product Specifications
Reference

PERFORMANCE

- Processor**
Intel® Core™ Ultra 7 165H, 16C (6P + 8E + 2LPE) / 22T, Max Turbo up to 5.0GHz, 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]**
32GB LPCAMM2 LPDDR5x-7500
- Memory Slots**
One LPCAMM2 connector, dual-channel
- Max Memory**
Up to 64GB (1x 64GB LPCAMM2), upgradable
- Storage**
1TB 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, English (EU)
- 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, Polish / 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 | : 0198153490202 | 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=21KV0023PB>

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	3Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39135)
BETTER	3Y Lenovo Support (KYD + SBTY + International Upg) (5PS1D67026)
GOOD	3Y Sealed Battery Add On (5WS0V07085)

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

PSREF
Product Specifications
Reference