

Legion Pro 7 16ARX8H

PSREF

Product Specifications
Reference

PERFORMANCE

- Processor**
AMD Ryzen™ 9 7945HX (16C / 32T, 2.5 / 5.4GHz, 16MB L2 / 64MB L3)
- Graphics**
NVIDIA® GeForce RTX™ 4080 12GB GDDR6, Boost Clock 2280MHz, TGP 175W
- Chipset**
AMD SoC Platform
- Memory^[1]**
2x 16GB SO-DIMM DDR5-5200
- Memory Slots**
Two DDR5 SO-DIMM slots, dual-channel capable
- Max Memory^[2]**
Up to 32GB DDR5-5200 offering
- Storage**
1TB SSD M.2 2280 PCIe® 4.0x4 NVMe®
- Storage Support^[3]**
Up to two drives, 2x M.2 SSD
• M.2 2280 SSD up to 1TB each
- Storage Slot**
Two M.2 2280 PCIe® 4.0 x4 slots
- Card Reader**
None
- Optical**
None
- Audio Chip**
High Definition (HD) Audio, Realtek® ALC3306 codec
- Speakers**
Stereo speakers (super linear speaker), 2W x2, audio by HARMAN, optimized with Nahimic Audio, Smart Amplifier (AMP)
- Camera**
FHD 1080p with E-shutter
- Microphone**
2x, Array
- Battery**
Integrated 99.9Wh
- Power Adapter**
330W Slim Tip Tiny GaN (3-pin)
- Special Features**
• AI Chip: LA2-Q
• Legion Coldfront 5.0 cooling system

DESIGN

- Display^[4]**
16" WQXGA (2560x1600) IPS 500nits Anti-glare, 100% sRGB, 240Hz, DisplayHDR™ 400, Dolby Vision®, FreeSync™, G-SYNC®, Low Blue Light, High Gaming Performance

- Touchscreen**
None
- Color Calibration**
Factory Color Calibration
- Keyboard**
Per-key RGB Backlit (with Lighting Lens), English
- Touchpad**
Buttonless Mylar® surface multi-touch touchpad, 75 x 120 mm (2.95 x 4.72 inches)
- Case Color**
Onyx Grey
- Surface Treatment**
Anodizing
- Case Material**
Aluminium (Top), Aluminium (Bottom)
- Pen**
Pen Not Supported
- Dimensions (WxDxH)^[5]**
363.4 x 263.55 x 21.97-25.9 mm (14.31 x 10.38 x 0.86-1.02 inches)
- Weight^[6]**
Less than 2.8 kg (6.17 lbs)

SOFTWARE

- Operating System**
None
- Bundled Software**
None

CONNECTIVITY

- Ethernet**
100/1000M (RJ-45)
- WLAN + Bluetooth^[7]^[8]**
Wi-Fi® 6E, 802.11ax 2x2 + BT5.2
- WWAN**
Non-WWAN
- Standard Ports**
• 1x USB 3.2 Gen 1 (Always On)
• 3x USB 3.2 Gen 1
• 1x USB-C® 3.2 Gen 2 (support data transfer and DisplayPort™ 1.4)
• 1x USB-C® 3.2 Gen 2 (support data transfer, Lenovo® Power Delivery 140W and DisplayPort™ 1.4)
• 1x HDMI® 2.1, up to 8K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x Ethernet (RJ-45)
• 1x Power connector

SECURITY & PRIVACY

- Security Chip**
Firmware TPM 2.0 Enabled

- Fingerprint Reader**
None

- Other Security**
E-shutter

SERVICE

- Base Warranty**
2-year, Courier or Carry-in
- Included Upgrade**
3Y Premium Care with Onsite upgrade from 2Y Depot/CCI (CPN)

ACCESSORIES

- Bundled Accessories^[9]**
4 Switchable Keycaps and Easy Tool

CERTIFICATIONS

- Green Certifications**
• ErP Lot 3
• RoHS compliant
- Other Certifications**
• TÜV Rheinland® High Gaming Performance
• TÜV Rheinland® Low Blue Light (Hardware Solution)

MODEL

- | | | | |
|------------------------|----------------|-----------------------|--------------|
| TopSeller | : Yes | Announce Date | : 2023-09-06 |
| EAN / UPC / JAN | : 197532265943 | End of Support | : 2029-06-14 |



Product image is a sample, it may not match the real color of this model

Note:
^[1] Installed memory is actually DDR5-5600 but may run as DDR5-5200 due to processor limitation.
^[2] The max memory is based on the test results with current.....
• Lenovo reserves the right to change specifications without notice.
To see more note information, please link to
<https://psref.lenovo.com/Detail/2198?M=82WS002LRM>

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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.

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- Onsite Support
- Technician Installed Customer
- Replaceable Unit Service
- International Warranty Upgrade

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Recommended Accessories

Lenovo Powered USB-C Travel Hub

Travel-Ready Productivity Powerhouse; One-stop travel docking is finally here. Connect and charge new and legacy devices wherever you happen to be. Sleek and compact, the Lenovo Powered USB-C Travel Hub fits unlimited...

Lenovo USB-C to Ethernet Adapter

The Lenovo USB-C to Ethernet Adapter is quick and easy way to connect your USB-C enabled notebook to Ethernet connections. It's ideal for imaging of systems or transferring large files quickly.

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

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