



PERFORMANCE

**Processor**  
AMD Ryzen™ 9 9955HX3D (16C / 32T, 2.5 / 5.4GHz, 16MB L2 / 128MB L3)

**AI PC Category**  
AI-Powered Gaming PC

**NPU**  
None

**Graphics**  
NVIDIA® GeForce RTX™ 5080 16GB GDDR7, Boost Clock 2287MHz, TGP 175W, 1334 AI TOPS

**Chipset**  
AMD SoC Platform

**Memory**  
2x 32GB SODIMM DDR5-5600

**Memory Slots**  
Two DDR5 SODIMM slots, dual-channel capable

**Max Memory**<sup>[1]</sup>  
Up to 64GB DDR5-5600 offering

**Storage**  
2TB SSD M.2 2280 PCIe® 5.0x4 Performance NVMe®

**Storage Slot**  
Two M.2 slots • One M.2 2280 PCIe® 5.0 x4 slot • One M.2 2280 PCIe 4.0 x4 slot

**Max Storage Support**<sup>[2]</sup>  
Up to two drives, 2x M.2 SSD • M.2 2280 SSD up to 2TB<sup>[3]</sup>

**Optical**  
None

**Card Reader**  
None

**Audio Chip**  
High Definition (HD) Audio, Realtek® ALC3306 codec

**Speakers**  
4 stereo speakers, 2W x2 (woofers), 2W x2 (tweeters), optimized with Nahimic Audio, Smart Amplifier (AMP)

**Microphone**  
2x, Array

**Camera**  
5.0MP with E-shutter

**Battery**  
99.9Wh

**Power Adapter**  
400W Slim Tip (3-pin)

**Special Features**  
AI Chip: LA3

DESIGN

**Display**  
16" WQXGA (2560x1600) OLED 500nits (typical) / 1100nits (peak) Glossy, 100% DCI-P3, 240Hz, DisplayHDR™ True Black 1000, Dolby Vision®, G-SYNC®, Low Blue Light, High Gaming Performance, Flicker Free

**Touchscreen**  
None

**Screen-to-Body Ratio**  
92% AAR (active area ratio)

**Color Calibration**  
Factory Color Calibration

**Pen**  
Pen Not Supported

**Keyboard**  
Per-key RGB Backlit (with Lighting Lens), Bulgarian

**Touchpad**  
Buttonless Mylar® surface multi-touch touchpad, 75 x 120 mm (2.95 x 4.72 inches)

**Dimensions (WxDxH)**<sup>[4]</sup>  
364.38 x 275.94 x 21.9-26.65 mm (14.35 x 10.86 x 0.86-1.05 inches)

**Weight**<sup>[5]</sup>  
Starting at 2.56 kg (5.64 lbs)

**Case Color**  
Eclipse Black

**Case Material**  
Aluminium (Top), Aluminium (Bottom)

**Surface Treatment**  
Anodizing Sandblasting

**SOFTWARE**

**Operating System**  
None

**Bundled Software**  
None

CONNECTIVITY

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

**WWAN**  
WWAN Not Supported

**Ethernet**  
2.5GbE (RJ-45)

**Standard Ports**  
• 2x USB-A (USB 5Gbps / USB 3.2 Gen 1)  
• 1x USB-A (USB 10Gbps / USB 3.2 Gen 2), Always On  
• 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with DisplayPort™ 2.1  
• 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 65-100W and DisplayPort™ 2.1<sup>[6]</sup>

• 1x HDMI® 2.1, up to 8K/60Hz  
• 1x Headphone / microphone combo jack (3.5mm)  
• 1x Ethernet (2.5GbE RJ-45)  
• 1x Power connector

**Docking**  
Various docking solutions supported via USB-C®. For more compatible docking solutions, please visit [Docking for Legion Pro 7 16AFR10H](#)

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**  
None

ACCESSORIES

**Bundled Accessories**  
4 Switchable Keycaps

CERTIFICATIONS

**Green Certifications**  
• ErP Lot 3  
• RoHS compliant

**Other Certifications**  
• TÜV Rheinland® Flicker Free  
• TÜV Rheinland® High Gaming Performance  
• TÜV Rheinland® Low Blue Light (Hardware Solution)

MODEL

**TopSeller** : No **EAN / UPC / JAN:** 199273236817  
**Announce Date:** 2025-10-08 **End of Support** : 2031-09-30  
Note:  
<sup>[1]</sup> The max memory is based on the test results with current Lenovo memory offerings.  
<sup>[2]</sup> The storage capacity supported is based on the test results with current Lenovo storage offerings.  
<sup>[3]</sup> The system supports dual SSD via two M.2 slots, but Lenovo offers only one SSD configuration with a second slot for user self-expansion.  
<sup>[4]</sup> The system dimensions may vary depending on configurations.  
<sup>[5]</sup> The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.  
<sup>[6]</sup> Supports Lenovo protocol for 140W charging but requires a unique Lenovo adapter for operation.

• Please refer to the official [Lenovo store website](#) or contact a local Lenovo sales representative or authorized business partner for current inventory and purchase options.

• Lenovo reserves the right to change specifications without notice.

## Premium Care - Advanced Support from Real People. Real Fast.



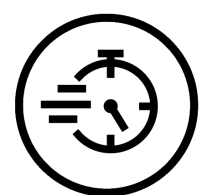
### REAL PERSON

Choose how you want to reach us - through the phone, chat or email - our expert technicians will take care of you.



### HASSLE FREE

‘Getting started’ and ‘how-to’ assistance for hardware and software. Easy solutions that are simple to reach - that’s how Premium Care delivers you the ideal support experience.



### REAL FAST

Highly trained technicians will provide you real-time solutions, whatever the issue, on your first contact. If needed, our team will schedule an onsite visit for the next business day.



### PC HEALTH CHECK

Free annual PC Health Check that allows our experts to spot issues before you do so they can resolve them quickly and help you avoid PC problems.

## 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



United States of America



**Lenovo Self-Charging Bluetooth Keyboard-French Canadian 058 4Y41R69498**



**Lenovo Wired VoIP Headset 5000 4XD1R88995**



**Lenovo Essential FHD Webcam Gen2 4XC1S15018**

Please click [here](#) to view the full list of accessories.

**Lenovo**

**PSREF**

Product Specifications  
Reference