



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 ^[1]
Up to 64GB DDR5-5600 offering
Storage
1TB 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 ^[2]
Up to two drives, 2x M.2 SSD • M.2 2280 SSD up to 2TB ^[3]
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), Hebrew
Touchpad
Buttonless Mylar® surface multi-touch touchpad, 75 x 120 mm (2.95 x 4.72 inches)
Dimensions (WxDxH) ^[4]
364.38 x 275.94 x 21.9-26.65 mm (14.35 x 10.86 x 0.86-1.05 inches)
Weight ^[5]
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
Windows® 11 Home, Hebrew / English
Bundled Software
Office Trial

CONNECTIVITY

WLAN + Bluetooth
Wi-Fi® 7, 802.11be 2x2 + BT5.4
WWAN
Non-WWAN
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 ^[6]

• 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
1-year, Courier or Carry-in
Included Upgrade
3Y Premium Care with Onsite upgrade from 1Y Courier/Carry-in

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: 199272795445
Announce Date: 2025-09-13	End of Support	: 2031-09-30
Note:		
^[1] The max memory is based on the test results with current Lenovo memory offerings.		
^[2] The storage capacity supported is based on the test results with current Lenovo storage offerings.		
^[3] 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.		
^[4] The system dimensions may vary depending on configurations.		
^[5] 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.		
^[6] Supports Lenovo protocol for 140W charging but requires a unique Lenovo adapter for operation.		
• Lenovo reserves the right to change specifications without notice.		

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



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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



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.



PSREF
Product Specifications
Reference