OVERVIEW

1.	2x USB 3.2 Gen 1	8.	2x USB 3.2 Gen 1
2.	Headphone jack (3.5mm)	9.	2x USB 2.0
3.	Microphone jack (3.5mm)	10.	Ethernet (RJ-45)
4.	Power button	11.	3x Audio connectors (3.5mm)
5.	Lighting switch	12.	Optional ports on expansion cards
6.	2x USB 3.2 Gen 2	13.	Power connector
7.	USB-C 3.2 Gen 2		

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 / 9 Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support
AMD Ryzen™ 5 7600	6	12	3.8GHz	5.1GHz	6MB L2 / 32MB L3	DDR5-5200
AMD Ryzen™ 7 7700	8	16	3.8GHz	5.3GHz	8MB L2 / 32MB L3	DDR5-5200
AMD Ryzen™ 7 7700X	8	16	4.5GHz	5.4GHz	8MB L2 / 32MB L3	DDR5-5200
AMD Ryzen™ 9 7900	12	24	3.7GHz	5.4GHz	12MB L2 / 64MB L3	DDR5-5200

Operating System

Operating System**

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language

Graphics

Graphics**[1]

Graphics	Type	Memory	Max Resolution	Connector	Key Features
NVIDIA® GeForce RTX™ 3050	Discrete	8GB GDDR6	7680x4320@60Hz(HDMI®), 7680x4320@120Hz(DP)[2]	1x HDMI® 2.1 FRL, 3x DP 1.4	DirectX® 12
NVIDIA® GeForce RTX™ 3060	Discrete	12G GDDR6	7680x4320@60Hz(HDMI®), 7680x4320@120Hz(DP)[3]	3x DP 1.4a, 1x HDMI® 2.1 FRL	DirectX® 12
NVIDIA® GeForce RTX™ 3060 Ti	Discrete	8G GDDR6	7680x4320@60Hz(HDMI®), 7680x4320@120Hz(DP)[4]	1x HDMI® 2.1 FRL, 3x DP 1.4a	DirectX® 12
NVIDIA® GeForce RTX™ 4060	Discrete	8G GDDR6	7680x4320@60Hz(HDMI®), 7680x4320@60Hz(DP)	1x HDMI® 2.1a FRL, 3x DP 1.4a	DirectX® 12
NVIDIA® GeForce RTX™ 4060 Ti	Discrete	8G GDDR6	7680x4320@60Hz(HDMI®), 7680x4320@60Hz(DP)	1x HDMI® 2.1a FRL, 3x DP 1.4a	DirectX® 12
NVIDIA® GeForce RTX™ 4070	Discrete	12G GDDR6X	7680x4320@60Hz(HDMI®); 7680x4320@60Hz(DP)	3x DP 1.4a, 1x HDMI® 2.1a FRL	DirectX® 12
NVIDIA® GeForce RTX™ 4070 SUPER	Discrete	12G GDDR6X	7680x4320@60Hz(HDMI®); 7680x4320@60Hz(DP)	3x DP 1.4a, 1x HDMI® 2.1a FRL	DirectX® 12
NVIDIA® GeForce RTX™ 4070 Ti	Discrete	12G GDDR6X	7680x4320@60Hz(HDMI®); 7680x4320@60Hz(DP)	3x DP 1.4a, 1x HDMI® 2.1a FRL	DirectX® 12
NVIDIA® GeForce RTX™ 4070 Ti SUPER	Discrete	16G GDDR6	7680x4320@60Hz(HDMI®), 7680x4320@60Hz(DP)	1x HDMI® 2.1a FRL, 3x DP 1.4a	DirectX® 12
AMD Radeon™ RX 6500XT	Discrete	4GB GDDR6	7680x4320@60Hz(HDMI®), 7680x4320@60Hz(DP)	1x HDMI® 2.1 FRL , 1x DP 1.4	DirectX® 12, OpenGL 4.6
AMD Radeon™ RX 7600	Discrete	8GB GDDR6	7680x4320@60Hz(HDMI®), 7680x4320@120Hz(DP)	3x DP 1.4a, 1x HDMI® 2.1 FRL	DirectX® 12

Notes:

[1] The information of integrated graphics are not applicable for the models with processor which has no integrated graphics inside (for the details, please refer to processor section).

[2], [3], [4] Requires two DisplayPort™ 1.4a links and DSC compression.

Monitor Support

Monitor Support

Supports up to 4 independent displays via discrete graphics ports (DP, HDMI®)

PSREF
Product Specifications
Reference

Chipset

Chipset

AMD B650 chipset

Memory

Max Memory[1]

Up to 32GB DDR5-5600

Memory Slots

Four DDR5 UDIMM slots, dual-channel capable

Memory Type[2]

DDR5-5600

Memory Protection

Non-ECC

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

[2] Installed memory is actually DDR5-5600 but may run as DDR5-5200/DDR5-3200 or other frequency depending on the memory support capability of AMD

Storage

Storage Support[1][2]

Up to six drives, 2x 3.5″ HDD + 1x 2.5″ HDD + 3x M.2 SSD
• 3.5″ HDD up to 2TB each
• M.2 SSD up to 2TB each

Storage Type**

Disk Type	Interface	RPM
3.5″ SATA HDD	SATA 6Gb/s	7.2K
M.2 2280 SSD[3]	PCIe® NVMe®, PCIe® 4.0 x4	-

RAID

No support

Notes:

[1] The max capacity of each disk type is based on the test results with current Lenovo® storage offerings.

[2] The system supports up to six drives, but Lenovo® only offers up to one SSD + one HDD configuration and another SSD slots / HDD bays for user self-extension.

[3] Installed one of M.2 2280 SSD is PCIe® 4x4 but run at PCIe® 4x2 due to AMD platform limitations.

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC897-Q codec

Speakers

No speakers

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features

350W	Fixed	85%	100-240V, 50-60Hz
500W	Fixed	85%	100V - 240V
850W	Fixed	90%	100V - 240V

DESIGN

Input Device

Keyboard
- Lenovo® Calliope Keyboard (USB connector), black
- No keyboard

Mouse
- Lenovo® Calliope Mouse (USB connector), black
- No mouse

Mechanical

Form Factor
Tower (26L)

Dimensions (WxDxH)[1]
205 x 396.9 x 425.9 mm (8.1 x 15.62 x 16.76 inches)

Packaging Dimensions (WxDxH)
325 x 502 x 580 mm (12.79 x 19.76 x 22.83 inches)

Weight[2]
Around 14 kg (30.86 lbs)

Packaging Weight
All models: Around 16 kg (35.27 lbs)

Case Color
Storm grey

Chassis**
- Normal side cover
- Transparent side cover
- Transparent side cover and inner decorate cover

Bays
2x 3.5″ disk bay

Expansion Slots
- One PCIe® 4.0 x16
- Four M.2 slots (one for WLAN, three for SSD: One M.2 2280 PCIe® 4.0 x2 and two M.2 2280 PCIe® 4.0 x4)
- One PCIe® 3.0 x4

Cooling System (Fan & Cooler)**
- 1x front system fan, 1x rear system fan
- 1x rear system fan
- 1x rear system fan with ARGB
- 1x rear system fan with ARGB, 2x front system fan with ARGB
- 1x rear system fan with ARGB, 2x front system fan with ARGB, 2x top system fan with ARGB

System Lighting***
- (Optional) Internal ambient lighting
- Legion Wordmark lighting

Notes:

[1] The system dimensions may vary depending on configurations.

[2] 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.

CONNECTIVITY

Network

WLAN + Bluetooth®

Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card[1]

Onboard Ethernet

2.5GbE, Realtek® RTL8125BG Gaming Ethernet, 1x RJ-45

Notes:

[1] Bluetooth® 5.3 requires Windows® 11.

Ports[1]

Rear Ports[2]

- 1x USB-C® 3.2 Gen 2
- 2x USB 2.0
- 2x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x Ethernet (2.5GbE RJ-45)
- 1x Lighting switch
- 1x power connector
- 3x audio connector (3.5mm)

Top Ports

- 2x USB 3.2 Gen 1
- 1x headphone (3.5mm)
- 1x microphone (3.5mm)

Notes:

[1] The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.
USB 2.0: 480 Mbit/s;
USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;
USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;
USB4® 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
USB4® 40Gbps (USB 40Gbps): 40 Gbit/s;
Thunderbolt™ 3/4: 40 Gbit/s.
[2] For video ports on discrete graphics, please see graphics section.

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in chipset

BIOS Security

- Administrator password
- Power-on password
- More BIOS security features, please visit BIOS Simulator[1]

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

SERVICE

Warranty[1]

Base Warranty**

- 1-year mail-in service
- 1-year courier or carry-in service

- 1-year limited onsite service
- 2-year courier or carry-in service
- 3-year courier or carry-in service

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://support.lenovo.com/warrantylookup/warrantypolicy.

OPERATING REQUIREMENTS

Operating Environment

Temperature

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage: -40°C (-40°F) to 60°C (140°F)

Relative Humidity

- Operating: 20% to 80%
- Storage: 10% to 90%

Altitude

- Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
- Storage: -15.2 m (-50 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration. For ESG & regulatory compliance documents, please visit https://compliance.lenovo.com.

- Feature with ** means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
- Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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