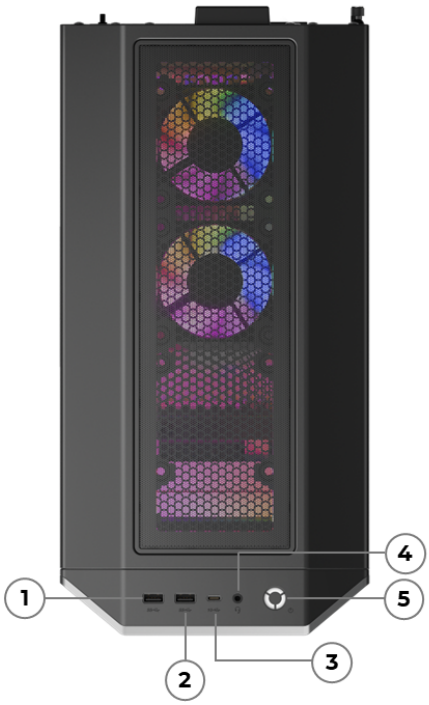
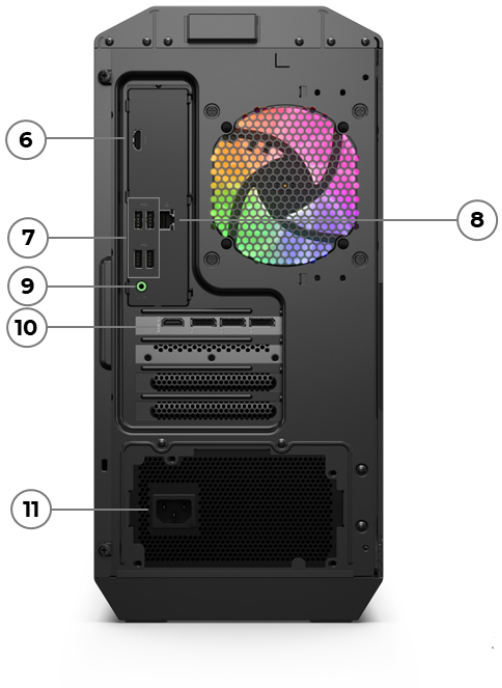
OVERVIEW





1. 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)	7. 4x USB-A (Hi-Speed USB)
2. 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)	8. Ethernet (RJ-45)
3. 1x USB-C (USB 10Gbps / USB 3.2 Gen 2)	9. 1x headphone (3.5mm)
4. Headphone / microphone combo jack (3.5mm)	10. Optional ports on expansion cards *
5. Power button	11. Power connector
6. HDMI 2.1 TMDS	

Notes:

- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 7 8000 Series Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
AMD Ryzen™ 7 8745HX	8	16	3.6GHz	5.1GHz	8MB L2 / 32MB L3	AMD Radeon™ 610M
AMD Ryzen™ 9 8945HX	16	32	2.5GHz	5.4GHz	16MB L2 / 64MB L3	AMD Radeon™ 610M
AMD Ryzen™ 9 9955HX3D	16	32	2.5GHz	5.4GHz	16MB L2 / 128MB L3	AMD Radeon™ 610M

Operating System

Operating System**

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- No preload operating system

Graphics

Graphics[1]

Graphics	Type	Memory	AI TOPS (Peak)	Max Resolution	Connector	Key Features
NVIDIA GeForce RTX™ 5050	Discrete	8GB GDDR6	421	7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP)[2]	3x DP 2.1b UHBR20, 1x HDMI® 2.1b FRL	DirectX® 12
NVIDIA GeForce RTX™ 5060	Discrete	8G GDDR7	614	7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP)[3]	3x DP 2.1b UHBR20, 1x HDMI® 2.1b FRL	DirectX® 12
NVIDIA GeForce RTX™ 5060 Ti	Discrete	8G GDDR7	759	7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP)[4]	3x DP 2.1b UHBR20, 1x HDMI® 2.1b FRL	DirectX® 12
NVIDIA GeForce RTX™ 5060 Ti	Discrete	16G GDDR7	759	7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP)[5]	3x DP 2.1b UHBR20, 1x HDMI® 2.1b FRL	DirectX® 12
NVIDIA GeForce RTX™ 5070	Discrete	12G GDDR7	988	7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP)[6]	3x DP 2.1b UHBR20, 1x HDMI® 2.1b FRL	DirectX® 12
NVIDIA GeForce RTX™ 5070Ti	Discrete	16G GDDR7	1406	7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP)[7]	3x DP 2.1b UHBR20, 1x HDMI® 2.1b FRL	DirectX® 12
AMD Radeon™ RX 9060 XT	Discrete	16GB GDDR6	-	7680*4320@120HZ with DSC (HDMI®), 7680*4320@144HZ with DSC(DP)	2x DP 2.1a UHBR13.5, 1x HDMI® 2.1b FRL	DirectX® 12, OpenGL 4.6
AMD Radeon™ RX 9070 XT	Discrete	16GB GDDR6	-	7680*4320@120HZ with DSC (HDMI®), 7680*4320@144HZ with DSC(DP)	3x DP 2.1a UHBR13.5, 1x HDMI® 2.1b FRL	DirectX® 12, OpenGL 4.6

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], [5], [6], [7] DSC. Up to 8K 12-bit HDR at 165Hz with DP 2.1b, DSC. Up to 8K 12-bit HDR at 120Hz With HDMI® 2.1b.

Monitor Support

Monitor Support

Supports up to 4 independent displays via discrete graphics

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory[1][2]

Up to 64GB DDR5-5200

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5200[3]

Memory Protection

Non-ECC

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.
[2], [3] Installed memory is actually DDR5-5600 but may run as DDR5-5200 depending on the memory support capability of AMD.

Storage

Max Storage Support[1]

Up to four drives, 2x M.2 SSD + 2x 3.5″ HDD
• 3.5″ HDD bay is only for customer self upgrade
• M.2 SSD up to 2TB each

Storage Type

Disk Type	Interface
M.2 2280 SSD	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.

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC623-CG codec

Speakers

No speakers

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features
500W	Fixed	88%	100V - 240V
500W	Fixed	85%	100V - 240V
850W	Fixed	90%	100V - 240V

DESIGN

Input Device

Keyboard

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

Mouse

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

Mechanical

Form Factor

Tower (26L)

Dimensions (WxDxH)[1]

205 x 404.5 x 437.1 mm (8.07 x 15.92 x 17.2 inches)

Packaging Dimensions (WxDxH)

560 x 330 x 548 mm (22.04 x 12.99 x 21.57 inches)

Weight[2]

Around 10.5 kg (23.14 lbs)

Packaging Weight

All models: Around 13.2 kg (29.1 lbs)

Case Color

Luna grey (front bezel), eclipse black (chassis)

Chassis

Transparent side cover

Bays

2x 3.5″ disk bay

Expansion Slots

- One PCIe® 4.0 x16, full height
- One PCIe® 3.0 x1, full-height
- Three M.2 slots (one for WLAN, two for SSD)

Cooling System (Fan & Cooler)**

- 120MM front system fan with ARGB light, 120MM rear system fan with ARGB light
- 2x 120MM front system fan with ARGB light
- 2x 120MM front system fan with ARGB light, 120MM rear system fan with ARGB light

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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®**[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card
- No WLAN and Bluetooth®

Onboard Ethernet

Gigabit Ethernet, 1x RJ-45

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

Ports[1]

Rear Ports[2]

- 4x USB-A (Hi-Speed USB / USB 2.0)
- 1x HDMI® 2.1 TMDS
- 1x Ethernet (RJ-45)
- 1x headphone (3.5mm)
- 1x power connector

Top Ports

- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2)
- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x headphone / microphone combo jack (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.
Thunderbolt™ 5: 80 Gbit/s (bidirectional), up to 120 Gbit/s in bandwidth boost mode for video-intensive applications.
[2] For video ports on discrete graphics, please see graphics section

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

BIOS Security

- Administrator password
- Hard disk password
- Master hard disk password
- More BIOS security features, please visit BIOS Simulator

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: 10°C (50°F) to 35°C (95°F)
- Storage: -40°C (-40°F) to 60°C (140°F)

Relative Humidity

- Operating: 20% to 80% (non-condensing)
- Storage: 10% to 90% (non-condensing)

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® 9.0
- 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.
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