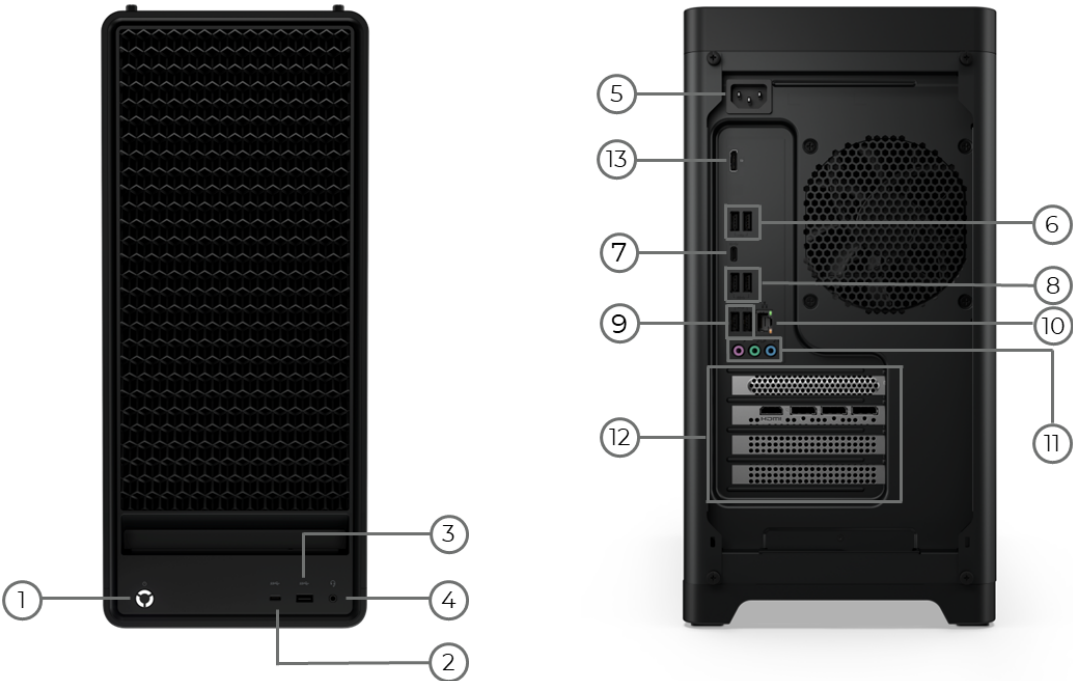# OVERVIEW

1. Power button	8. 2x USB-A (USB 5Gbps)
2. 1x USB-C (USB 5Gbps)	9. 2x USB-A (Hi-Speed USB)
3. 1x USB-A (USB 5Gbps)	10. Ethernet (RJ-45)
4. 1x headphone / microphone combo jack (3.5mm)	11. 3x Audio connectors
5. Power connector	12. Optional ports on expansion cards
6. 2x USB-A (Hi-Speed USB)	13. 1x DisplayPort 1.4
7. USB-C (USB 20Gbps)	

PERFORMANCE

Processor

Processor Family

Intel® Core™ Ultra 5 / 7 / 9 Processor (Series 2)

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
Core Ultra 5 235HX	14 (6 P-core + 8 E-core)	14	P-core 2.9GHz / E-core 2.6GHz	P-core 5.1GHz / E-core 4.5GHz	26MB L2 Cache / 24MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	Up to 27 TOPS
Core Ultra 7 255HX	20 (8 P-core + 12 E-core)	20	P-core 2.4GHz / E-core 1.8GHz	P-core 5.2GHz / E-core 4.5GHz	36MB L2 Cache / 30MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	Up to 33 TOPS
Core Ultra 9 275HX	24 (8 P-core + 16 E-core)	24	P-core 2.7GHz / E-core 2.1GHz	P-core 5.4GHz / E-core 4.6GHz	36MB L2 Cache / 40MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	Up to 36 TOPS

AI (Artificial Intelligence)

AI PC Category

AI-Powered Gaming PC[1]

AI Performance

Up to 36 overall TOPS

NPU

Integrated Intel® AI Boost, up to 13 TOPS

Notes:

[1] AI-Powered Gaming PCs feature Lenovo® AI Engine+ and NVIDIA® GeForce RTX™ GPUs to handle AI-driven tasks and deliver exceptional gaming performance.

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™ 4060	Discrete	8G GDDR6	242	7680x4320@60Hz with DSC, HDR(HDMI®), 7680x4320@60Hz with DSC, HDR(DP)	1x HDMI® 2.1a FRL, 3x DP 1.4a	DirectX® 12
NVIDIA® GeForce RTX™ 4060 Ti	Discrete	8G GDDR6	353	7680x4320@60Hz with DSC, HDR(HDMI®), 7680x4320@60Hz with DSC, HDR(DP)	1x HDMI® 2.1a FRL, 3x DP 1.4a	DirectX® 12
NVIDIA® GeForce RTX™ 4070 Ti SUPER 16GB	Discrete	16G GDDR6X	706	7680x4320@60Hz with DSC, HDR(HDMI®), 7680x4320@60Hz with DSC, HDR(DP)	3x DP 1.4a, 1x HDMI® 2.1a FRL	DirectX® 12
NVIDIA® GeForce RTX™ 5060	Discrete	8G GDDR7	614	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 Ti	Discrete	8G GDDR7	759	7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP)[3]	3x DP 2.1b UHBR20, 1x	DirectX® 12

					HDMI® 2.1b FRL	
NVIDIA® GeForce RTX™ 5070	Discrete	12G GDDR7	988	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™ 5070Ti	Discrete	16G GDDR7	1406	7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP)[5]	3x DP 2.1b UHBR20, 1x HDMI® 2.1b FRL	DirectX® 12
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], [5] 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 ports (DP, HDMI®)

Chipset

Chipset

Intel® HM870 chipset

Memory

Max Memory[1]

Up to 64GB DDR5-6400

Memory Slots

Two DDR5 SODIMM/CSODIMM slots, dual-channel capable

Memory Type***

- DDR5-5600 SODIMM[2]
- DDR5-6400 CSODIMM[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 5600MHz or 6400Mhz , but actural frequncy depending on the memory support capability of Intel®.

Storage

Max Storage Support[1]

Up to four drives, 1x 3.5″ HDD + 3x M.2 SSD
• 3.5″ HDD bay 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
M.2 2280 SSD	PCIe® NVMe®, PCIe® 5.0 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 codec

Speakers

No speakers

Power Supply

Power Supply**

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

DESIGN

Input Device

Keyboard

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

Mouse

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

Mechanical

Form Factor

Tower (30L)

Dimensions (WxDxH)[1]

211 x 490.4 x 414 mm (8.3 x 19.3 x 16.29 inches)

Packaging Dimensions (WxDxH)

321 x 596 x 549 mm (12.63 x 23.46 x 21.61 inches)

Weight[2]

Around 15 kg (33.06 lbs)

Packaging Weight

All models: Around 17 kg (37.47 lbs)

Case Color

Eclipse black

Chassis**

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

Expansion Slots

- One PCIe® 5.0 x16
- One PCIe® 3.0 x4
- Four M.2 slots (one for WLAN, three for SSD)

Cooling System (Fan & Cooler)**

- 1x rear system fan with ARGB + 2x buttom system fan with ARGB
- 1x rear system fan with ARGB
- 2x buttom system fan with ARGB + 2x top system fan with ARGB
- 150W airflow 120MM-Fan, PCH Heatsink, 3x SSD Heatsink, VRM Heatsink
- 150W airflow 120MM-Fan cooler, M.2 SSD DECO Mylar® Heatsink, VRM Heatsink
- 150W airflow 120MM-Fan cooler, VRM Heatsink, SSD Heatsink
- 150W airflow 120MM-Fan cooler, 2x top system fan
- 150W airflow 120MM-Fan cooler
- 150W airflow 120MM-Fan cooler, VRM Heatsink
- 150W airflow 120MM-Fan cooler, VRM Heatsink, PCH Heatsink
- 150W airflow 120MM-Fan cooler, 2x top system fan with ARGB
- 150W airflow 120MM-Fan cooler, PCH Heatsink, SSD Heatsink, VRM Heatsink
- 200W liquid 2x 120MM-Fan with ARGB light, VRM Heatsink, 2x SSD Heatsink
- 200W liquid 2x 120MM-Fan with ARGB light, VRM Heatsink, PCH Heatsink
- 200W liquid 2x 120MM-Fan with ARGB light, VRM Heatsink, SSD Heatsink
- 200W liquid 2x 120MM-Fan with ARGB light, PCH Heatsink, 2x SSD Heatsink, VRM Heatsink
- 200W liquid 2x 120MM-Fan with ARGB light, VRM Heatsink, 3x SSD Heatsink, PCH Heatsink
- 200W liquid 2x 120MM-Fan with ARGB light, PCH Heatsink, SSD Heatsink, VRM Heatsink
- 200W liquid 2x 120MM-Fan with ARGB light, M.2 SSD DECO Mylar® Heatsink, VRM Heatsink
- 200W liquid 2x 120MM-Fan with ARGB light, VRM Heatsink

System Lighting

- Legion Logo Lighting
- None

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® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card[2]

Onboard Ethernet

2.5GbE, Realtek® RTL8125BGS Gaming 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.

[2] The bandwidth of WiFi 7 adapter is 160 MHz.

Ports[1]

Rear Ports[2]

- 1x USB-C® (USB 20Gbps / USB 3.2 Gen 2x2)
- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 4x USB-A (Hi-Speed USB / USB 2.0)
- 1x DisplayPort™ 1.4
- 1x Ethernet (2.5GbE RJ-45)
- 1x power connector
- 3x audio out (5.1 channel)

Top Ports

- 1x USB-C® (USB 5Gbps / USB 3.2 Gen 1)
- 1x 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 chipset

BIOS Security

- Administrator password
- Power-on password

SERVICE

Warranty[1]

Base Warranty**

- 1-year mail-in service
- 1-year courier or carry-in 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% (non-condensing)
- Storage: 10% to 90% (non-condensing)

Altitude

- Operating: 0 m (0 ft) to 3048 m (10,000 ft)
- Storage: 0 m (0 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Silver Registered
- 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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