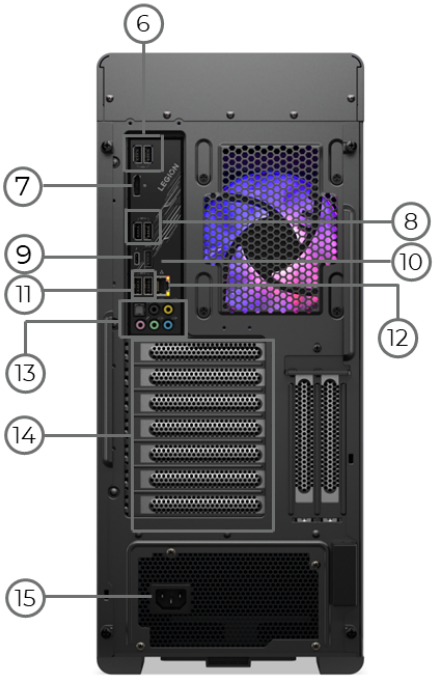
OVERVIEW



1. 1x USB-C (USB 10Gbps)	9. 1x USB-C (Thunderbolt 4)
2. 2x USB-A (Hi-Speed USB)	10. 1x USB-A (USB 10Gbps)
3. 1x USB-A (USB 5Gbps)	11. 2x USB-A (USB 5Gbps)
4. 1x Headphone / microphone combo jack (3.5mm)	12. Ethernet (2.5GbE RJ-45)
5. Power button	13. 6x Audio connectors
6. 2x USB-A (Hi-Speed USB)	14. Optional ports on expansion cards *
7. 1x DisplayPort 1.4	15. Power connector
8. 2x USB-A (USB 5Gbps)	

Notes:
- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

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

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
Core Ultra 7 265K	20 (8 P-core + 12 E-core)	20	P-core 3.9GHz / E-core 3.3GHz	P-core 5.4GHz / E-core 4.6GHz	36MB L2 Cache / 30MB Intel® Smart Cache	Intel® Graphics, up to 8 TOPS	Intel® AI Boost, up to 13 TOPS	Up to 33 TOPS
Core Ultra 7 265KF	20 (8 P-core + 12 E-core)	20	P-core 3.9GHz / E-core 3.3GHz	P-core 5.4GHz / E-core 4.6GHz	36MB L2 Cache / 30MB Intel® Smart Cache	-	Intel® AI Boost, up to 13 TOPS	Up to 25 TOPS
Core Ultra 7 270K Plus	24 (8 P-core + 16 E-core)	24	P-core 3.7GHz / E-core 3.2GHz	Max Turbo up to 5.5GHz / P-core 5.4GHz / E-core 4.7GHz	40MB L2 Cache / 36MB Intel® Smart Cache	Intel® Graphics, up to 8 TOPS	Intel® AI Boost, up to 13 TOPS	Up to 36 TOPS
Core Ultra 9 285K	24 (8 P-core + 16 E-core)	24	P-core 3.7GHz / E-core 3.2GHz	Max Turbo up to 5.7GHz / P-core 5.5GHz / E-core 4.6GHz	40MB L2 Cache / 36MB Intel® Smart Cache	Intel® Graphics, up to 8 TOPS	Intel® AI Boost, up to 13 TOPS	Up to 36 TOPS

AI (Artificial Intelligence)

AI PC Category

AI-Powered Gaming PC[1]

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™ 4070 Ti SUPER	Discrete	16G GDDR6	706	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™ 4080 SUPER	Discrete	16G GDDR6X	836	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™ 5070Ti	Discrete	16G GDDR7	1406	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™ 5080	Discrete	16G GDDR7	1801	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™ 5090	Discrete	32G GDDR7	3352 TOPS	7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP)[4]	3x DP 2.1b UHBR20, 1x HDMI® 2.1b 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] 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® Z890 chipset

Memory

Max Memory[1]

Up to 128GB DDR5-5600

Memory Slots

Four DDR5 UDIMM/CUDIMM slots, dual-channel capable

Memory Type**[2]

- DDR5-5600 UDIMM
- DDR5-6400 CUDIMM[3]

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 DDR5-6400 but may run as DDR5-5600 or less depending on the memory support capability of Intel®.
[3] . Installed memory is actually DDR5-6400 but may run as DDR5-5600 or less depending on the memory support capability of Intel®.

Storage

Max Storage Support[1]

Up to six drives, 2x 3.5″ HDD + 4x M.2 SSD
• 3.5″ HDD up to 2TB each
• 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® ALC1220 codec

Speakers

No speakers

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features
850W	Fixed	90%	100V - 240V
1200W	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 (34L)

Dimensions (WxDxH)

211 x 446 x 489.93 mm (8.3 x 17.55 x 19.28 inches)

Packaging Dimensions (WxDxH)

320 x 580 x 625 mm (12.59 x 22.83 x 24.6 inches)

Weight[1]

Around 18 kg (39.68 lbs)

Packaging Weight

All models: Around 19 kg (41.88 lbs)

Case Color

Storm grey

Chassis**

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

Bays

2x 3.5″ disk bay

Expansion Slots

- One PCIe® 5.0 x16
- One PCIe® 4.0 x16 (x4 signal)
- One PCIe® 3.0 x1
- Five M.2 slots (one for WLAN, four for SSDs)

Cooling System (Fan & Cooler)**

- 120mm-Fan with ARGB lighting air cooler, 1x rear system fan with ARGB, 3x front system fan with ARGB
- 120mm-Fan with ARGB lighting air cooler, 1x rear system fan with ARGB, 3x front system fan with ARGB, 2x top system fan with ARGB
- 3x 120mm-Fan with ARGB lighting liquid cooler, 1x rear system fan with ARGB, 2x top system fan with ARGB, 3x Front ARGB (Include in liquid cooler module)

System Lighting**

- Legion ARGB Lighting
- Legion ARGB Lighting + Internal ambient lighting

Notes:

[1] 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

Onboard Ethernet

2.5GbE, Realtek® RTL8125BG 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.

Ports[1]

Rear Ports[2]

- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.1 and DisplayPort™ 2.1[3]
- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 2x USB-A (Hi-Speed USB / USB 2.0)
- 4x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x DisplayPort™ 1.4[4]
- 1x Ethernet (2.5GbE RJ-45)
- 1x Power connector
- 6x Audio connectors

Top Ports

- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 2x USB-A (Hi-Speed USB / USB 2.0)
- 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

[3] For some models, this connector does not support display function.

[4] DisplayPort™ out connector are not applicable for the models with processor which has no integrated graphics inside (for the details, please refer to processor section).

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in chipset

BIOS Security

- Administrator password
- Hard disk 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% (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

- 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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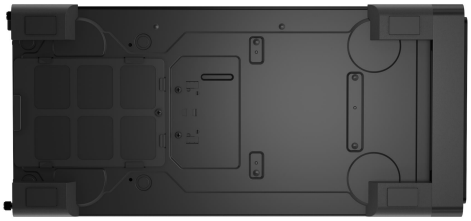
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