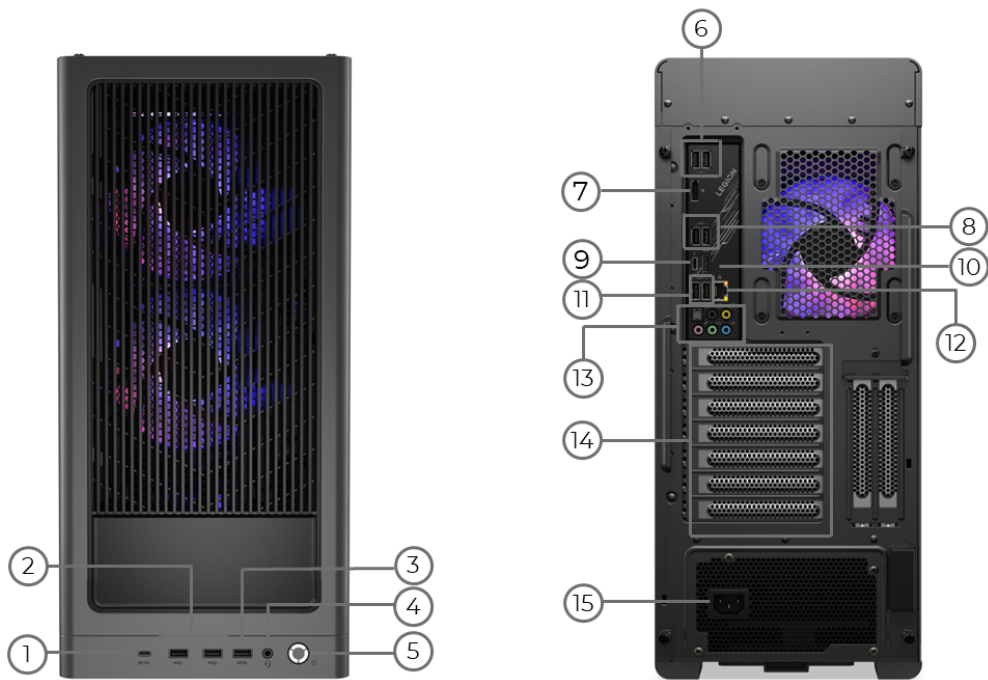


OVERVIEW



|   |   |
|---|---|
| 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    | 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 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    | Intel® AI Boost, up to 13 TOPS | Up to 36 TOPS |

AI (Artificial Intelligence)

AI PC Category

AI-Powered Gaming PC<sup>[1]</sup>

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\*\*<sup>[1]</sup>

| 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) <sup>[2]</sup> | 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) <sup>[3]</sup> | 3x DP 2.1b UHBR20, 1x HDMI®          | DirectX® 12  |

|                           |          |           |   |  |                                      |             |
|---------------------------|----------|-----------|---|--|--------------------------------------|-------------|
|                           |          |           |   |  | 2.1b FRL                             |             |
| NVIDIA® GeForce RTX™ 5090 | Discrete | 32G GDDR7 | - | 7680x4320@120Hz with DSC(HDMI®); 7680x4320@165Hz with DSC(DP) <sup>[4]</sup> | 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<sup>[1]</sup>

Up to 128GB DDR5-5600

Memory Slots

Four DDR5 UDIMM/CUDIMM slots, dual-channel capable

Memory Type<sup>\*\*[2]</sup>

- DDR5-5600 UDIMM
- DDR5-6400 CUDIMM<sup>[3]</sup>

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<sup>[1]</sup>

Up to six drives, 2x 3.5" HDD + 4x M.2 SSD

- 3.5" HDD up to 2TB
- M.2 SSD up to 2TB

Storage Type<sup>\*\*</sup>

| 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<sup>(1)</sup>

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

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 + 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<sup>[1]</sup>

#### Rear Ports<sup>[2]</sup>

- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.1 and DisplayPort™ 2.1<sup>[3]</sup>
- 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<sup>[4]</sup>
- 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<sup>\[1\]</sup>](#)

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<sup>[1]</sup>

#### 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<sup>[1]</sup>

#### 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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