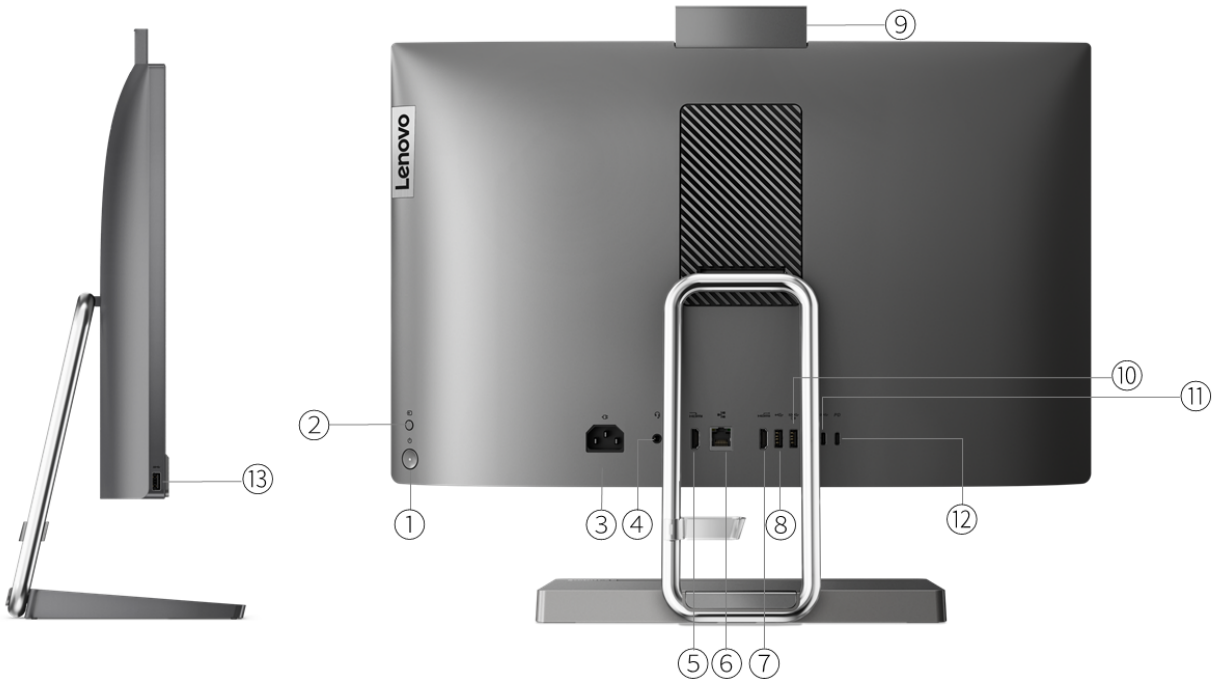
## OVERVIEW




| | |
|---|---|
| 1. Power button | 8. USB 2.0 |
| 2. PC / monitor mode switch | 9. Top camera |
| 3. Power connector | 10. USB 3.2 Gen 2 |
| 4. Headphone / microphone combo jack (3.5mm) | 11. USB-C 3.2 Gen 2 |
| 5. HDMI-in 2.1 TMDS | 12. USB-C 2.0 (support data transfer, PD 3.0) |
| 6. Ethernet (RJ-45) | 13. USB 3.2 Gen 1 |
| 7. HDMI-out 2.1 TMDS | |

# PERFORMANCE

## Processor

**Processor Family**

12th / 13th Generation Intel® Core™ i5 / i7 Processor

**Processor****[1]

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|---|---|---|---|---|---|---|---|
| Core i5-12500H | 12 (4 P-core + 8 E-core) | 16 | P-core 2.5GHz / E-core 1.8GHz | P-core 4.5GHz / E-core 3.3GHz | 18MB Intel® Smart Cache | DDR5-4800 | Intel® Iris® Xe Graphics |
| Core i7-12700H | 14 (6 P-core + 8 E-core) | 20 | - | P-core 4.7GHz / E-core 3.5GHz | 24MB Intel® Smart Cache | DDR5-4800 | Intel® Iris® Xe Graphics |
| Core i5-13500H | 12 (4 P-core + 8 E-core) | 16 | - | P-core 4.7GHz / E-core 3.5GHz | 18MB Intel® Smart Cache | DDR5-4800 | Intel® Iris® Xe Graphics |
| Core i7-13700H | 14 (6 P-core + 8 E-core) | 20 | - | P-core 5.0GHz / E-core 3.7GHz | 24MB Intel® Smart Cache | DDR5-4800 | Intel® Iris® Xe Graphics |

Notes:

[1] Intel® Iris® Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel® Iris® Xe Graphics will function as Intel® UHD Graphics.

Intel® Max Turbo frequency will vary depending on application workload and the hardware and software configurations, see http://www.intel.com/technology/turboboost/ for more information.

## Operating System

**Operating System****

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

## Graphics

**Graphics****

| Graphics | Type | Memory | Max Resolution | Connector | Key Features |
|---|---|---|---|---|---|
| Intel® Iris® Xe Graphics[1] | Integrated | Shared | 3840x2160@60Hz(HDMI®) | 1x HDMI® 2.1 TMDS | DirectX® 12.1 |
| Intel® Arc™ A370M Graphics | Discrete | 4GB GDDR6 | 3840x2160@60Hz(HDMI®) | 1x HDMI® 2.1 TMDS | DirectX® 12 Ultimate |

Notes:

[1] Intel® Iris® Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel® Iris® Xe Graphics will function as Intel® UHD Graphics.

## Monitor Support

**Monitor Support**

Supports up to 2 independent displays via native display and 1 external monitor; supports external monitor via HDMI®

## Chipset

**Chipset**

Intel® SoC (System on Chip) platform

## Memory

**Max Memory**[1]

Up to 32GB DDR5-4800

**Memory Slots**

Two DDR5 SODIMM slots, dual-channel capable

**Memory Type****

- DDR5-4800
- DDR5-5200

**Memory Protection**

Non-ECC

Notes:

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

## Storage

**Max Storage Support**[1][2]

One drive, up to 1TB M.2 SSD

**Storage Type****

| Disk Type | Interface |
|---|---|
| M.2 2242 SSD | PCIe® NVMe®, PCIe® 3.0 x4 |
| M.2 2280 SSD | PCIe® NVMe®, PCIe® 3.0 x4 |
| 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.
[2] 2.5" HDD bracket kit only comes with pre-configured HDD models.

## Removable Storage

**Optical**

None

**Card Reader**

No card reader

## Multi-Media

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC274-CG codec

**Speakers**

Stereo speakers, 5W x2, JBL®-branded

**Microphone**

Dual-microphone array

**Camera****

- 5.0-megapixel IR camera, fixed focus
- 5.0-megapixel IR camera, fixed focus, with AI chip
- 5.0-megapixel, fixed focus

## Power Supply

**Power Supply****

| Power | Type | Efficiency | Key Features |
|---|---|---|---|
| 180W | Fixed | 90% | 100V - 240V, 50-60Hz |
| 230W | Fixed | 92% | 100V - 240V, 50-60Hz |

# DESIGN

## Display

**Display****[1]

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle (L/R/U/D) | Key Features |
|---|---|---|---|---|---|---|---|---|---|---|
| 27″ | QHD (2560x1440) | Multi-touch | IPS | 350nits | Anti-glare | 16:9 | 1000:1 | 99% sRGB | horizontal: +/- 89°, vertical: +/- 89° | Borderless, 100Hz |
| 27″ | QHD (2560x1440) | Non-touch | IPS | 350nits | Anti-glare | 16:9 | 1000:1 | 99% sRGB | horizontal: +/- 89°, vertical: +/- 89° | Borderless, 100Hz |

**Touchscreen**

- Capacitive-type multi-touch, supports 10-point touch
- Non-touch

Notes:

[1] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

## Input Device

**Pen**

No support

**Keyboard****

- Lenovo® Calliope Keyboard (USB connector), black
- Lenovo® Calliope Wireless Keyboard, black
- Euterpe Wireless Keyboard, grey

**Mouse****

- Lenovo® Calliope Mouse (USB connector), black
- Lenovo® Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Euterpe Wireless Mouse, grey

## Mechanical

**Form Factor**

AIO (27 inches)

**Dimensions (WxDxH)**[1]

614.8 x 187.57 x 474.12 mm (24.2 x 7.38 x 18.66 inches)

**Packaging Dimensions (WxDxH)**

232 x 763 x 570 mm (9.13 x 30.03 x 22.44 inches)

**Weight**[2]

| Models | Weight |
|---|---|
| Integrated graphic models | 9 kg (19.84 lbs) |
| Discrete graphic models | 9.55 kg (21.05 lbs) |

**Packaging Weight****

- Discrete graphic models: 13.88 kg (30.6 lbs)
- Integrated graphic models: 13.35 kg (29.43 lbs)

**Case Color**

Storm grey

**Bays**

No bays

**Expansion Slots**

Two M.2 slots (one for WLAN, one for SSD)

**Stand**

Monitor stand, supports -5° to +25° tilt

**Others**

(Optional) Wireless charger 15W

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® 5, 802.11ac 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 card
- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 card

**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**

- 1x USB-C® 2.0 with DisplayPort™-In function (Only for QHD models)
- 1x USB-C® 3.2 Gen 2
- 1x HDMI® 2.1 TMDS
- 1x HDMI®-in
- 1x Ethernet (RJ-45)
- 1x USB 2.0
- 1x USB 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)
- 1x mode switcher
- 1x power connector

**Left Ports**

1x USB 3.2 Gen 1

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.

# SECURITY & PRIVACY

## Security

**Security Chip**

Firmware TPM 2.0 integrated in SoC

**BIOS Security**

- Administrator password
- Hard disk 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.

# MANAGEABILITY

## System Management

**System Management**

None

# 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: -20°C (-4°F) to 60°C (140°F)

**Relative Humidity**

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

**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 3/7
- 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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