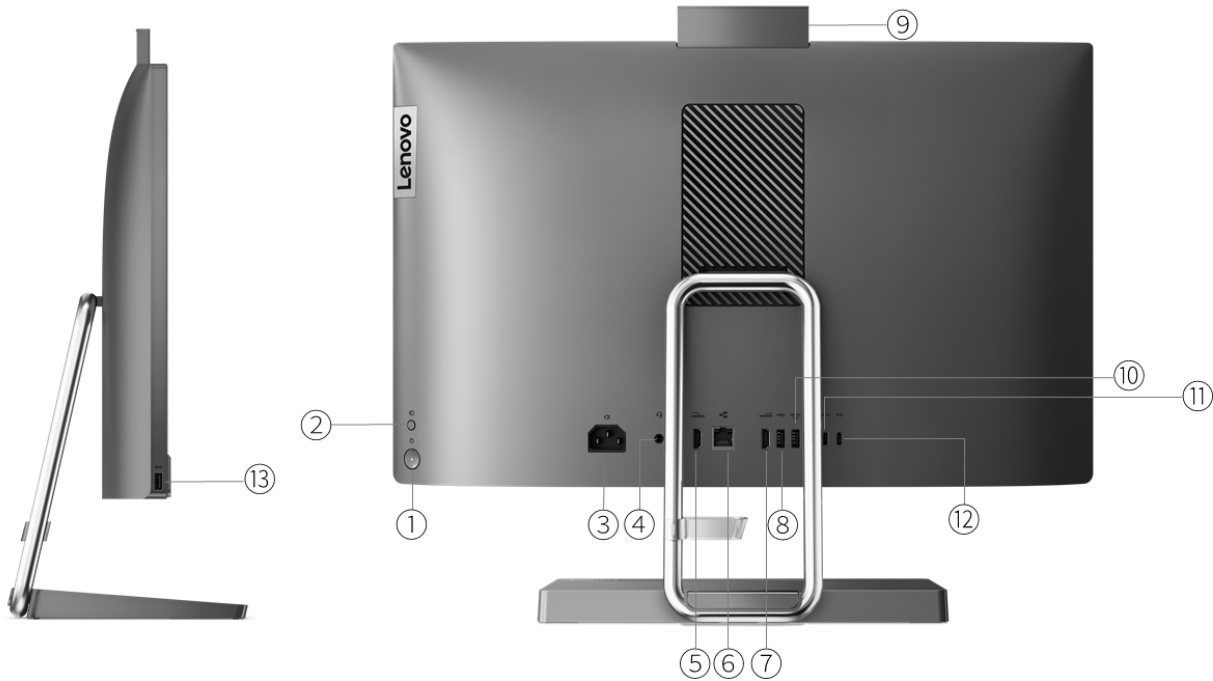


**OVERVIEW**



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

## PERFORMANCE

### Processor

#### Processor Family

12th Generation Intel® Core™ i5 / i7 Processor

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

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	DDR5-4800	Intel Iris® Xe Graphics
Core i7-12700H	14 (6 P-core + 8 E-core)	20	P-core 2.3GHz / E-core 1.7GHz	P-core 4.7GHz / E-core 3.5GHz	24MB	DDR5-4800	Intel Iris Xe Graphics

#### Notes:

- 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.

### Operating System

#### Operating System

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 11 Home 64 Single Language
- No operating system

### Graphics

#### Graphics<sup>[1][2]</sup>

Graphics	Type	Memory	Boost Clock	TGP	Connector	Max Resolution	Key Features	Remark
Intel Iris Xe Graphics	Integrated	Shared	-	-	1x HDMI® 2.1 TMDS	3840x2160@60Hz(HDMI)	DirectX® 12	-
Intel Arc A370M Graphics	Discrete	4GB GDDR6	-	-	1x HDMI 2.1 TMDS	3840x2160@60Hz(HDMI)	DirectX 12	-

#### Notes:

- The information of integrated graphics are not applicable for the models without integrated graphics (for the details, please refer to processor section)
- 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<sup>[1]</sup>

Up to 16GB DDR5-4800

#### Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

#### Memory Type

DDR5-4800

#### Memory Protection

Non-ECC

## Notes:

- The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.

## Storage

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

One drive, up to 1TB M.2 SSD

### Storage Type

Disk Type	Interface	RPM	Offering	Security
M.2 2280 SSD	PCIe® NVMe®, PCIe 3.0 x4	-	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 4.0 x4	-	-	-

### RAID

No support

## Notes:

- The storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

## 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 array microphone

### Camera

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

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

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
23.8"	FHD (1920x1080)	None	IPS	250 nits	Anti-glare	16:9	1000:1	72% NTSC	horizontal: +/- 89°, vertical: +/- 89°	Borderless design

23.8"	FHD (1920x1080)	Multi-touch	IPS	250 nits	Anti-glare	16:9	1000:1	72% NTSC	horizontal: +/- 89°, vertical: +/- 89°	Borderless design
23.8"	QHD (2560x1440)	None	IPS	300 nits	Anti-glare	16:9	1000:1	72% NTSC	horizontal: +/- 89°, vertical: +/- 89°	borderless, 100Hz

**Touchscreen**

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

**Notes:**

## 1. California Electronic Waste Recycling Fee

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to <https://www.calrecycle.ca.gov/Electronics/Consumer>

**Input Device****Pen**

No support

**Keyboard**

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

**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 (23.8 inches)

**Dimensions (WxDxH)**

541.2 x 187.57 x 433.38 mm (21.3 x 7.38 x 17.06 inches)

**Packaging Dimensions (WxDxH)**

187.57 x 541 x 433.38 mm (7.38 x 21.29 x 17.26 inches)

**Weight**

Models	Weight
Discrete graphic model	8.07 kg (17.79 lbs)
Integrated graphic model	7.57 kg (16.68 lbs)

**Packaging Weight**

- Discrete graphic model: 11.81 kg (26.03 lbs)
- Integrated graphic model: 11.29 kg (24.89 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

**CONNECTIVITY**

## Network

### Ethernet

Gigabit Ethernet, 1x RJ-45

### WLAN + Bluetooth<sup>[1]</sup>

- Wi-Fi<sup>®</sup> 5, 802.11ac 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 card

#### Notes:

1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation

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

### Rear Ports<sup>[1][2]</sup>

- 1x USB 2.0
- 1x USB 3.2 Gen 2
- 1x USB-C<sup>®</sup> 2.0 Gen 2 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 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;  
USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;  
Thunderbolt™ 3/4: 40 Gbit/s
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
- Power-on password
- Hard disk password

## MANAGEABILITY

### System Management

#### System Management

None

## SERVICE

### Warranty

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

- 1-year mail-in service

- 1-year depot service
- 1-year limited onsite service
- 2-year depot service
- 3-year depot service
- OB

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**Notes:**

1. More information of warranty policy, please access <https://pcsupport.lenovo.com/warranty>

## ENVIRONMENTAL

### Operating Environment

#### Temperature

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage: -20°C (-4°F) to 60°C (140°F)

#### 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

#### Green Certifications

- ErP Lot 3 and Lot 7
- RoHS compliant

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