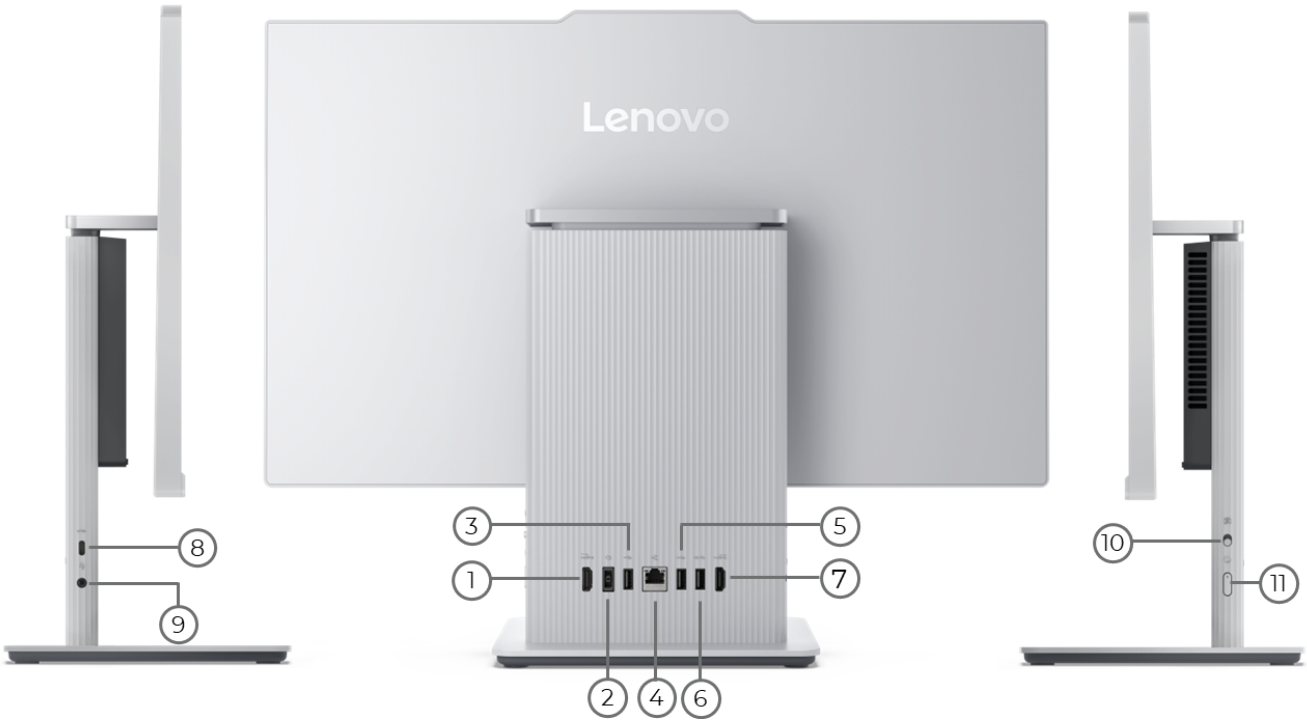
## OVERVIEW




| | |
|---|---|
| 1. HDMI-in | 7. HDMI 2.1 TMDS |
| 2. Power connector | 8. USB-C (USB 10Gbps) |
| 3. USB-A (Hi-Speed USB) | 9. Headphone / microphone combo jack (3.5mm) |
| 4. Ethernet (RJ-45) | 10. Camera switch |
| 5. USB-A (Hi-Speed USB) | 11. Power button |
| 6. USB-A (USB 10Gbps) | |

# PERFORMANCE

## Processor

**Processor Family**

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

**Processor****

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Processor Graphics | NPU | Overall TOPS |
|---|---|---|---|---|---|---|---|---|
| Core Ultra 5 226V | 8 (4 P-core + 4 LP E-core) | 8 | P-core 2.1GHz / LP E-core 2.1GHz | P-core 4.5GHz / LP E-core 3.5GHz | 8MB Intel® Smart Cache | Intel® Arc™ Graphics 130V, up to 53 TOPS | Intel® AI Boost, up to 40 TOPS | Up to 97 TOPS |
| Core Ultra 7 256V | 8 (4 P-core + 4 LP E-core) | 8 | P-core 2.2GHz / LP E-core 2.2GHz | P-core 4.8GHz / LP E-core 3.7GHz | 12MB Intel® Smart Cache | Intel® Arc™ Graphics 140V, up to 64 TOPS | Intel® AI Boost, up to 47 TOPS | Up to 115 TOPS |

## AI (Artificial Intelligence)

**AI PC Category**

AI PC

**NPU****

- Integrated Intel® AI Boost, up to 40 TOPS
- Integrated Intel® AI Boost, up to 47 TOPS

## Operating System

**Operating System****

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

## Graphics

**Graphics****

| Graphics | Type | Memory | AI TOPS (Peak) | Max Resolution | Connector | Key Features |
|---|---|---|---|---|---|---|
| Intel® Arc™ Graphics 130V | Integrated | Shared | 53 TOPS | 4096x2160@60Hz(HDMI®) | 1x HDMI® 2.1 TMDS | DirectX® 12 |
| Intel® Arc™ Graphics 140V | Integrated | Shared | 64 TOPS | 4096x2160@60Hz(HDMI®) | 1x HDMI® 2.1 TMDS | DirectX® 12 |

## 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]

16GB soldered LPDDR5X-8533 MoP, not upgradable

**Memory Slots**

Memory soldered to systemboard, no slots, dual-channel

**Memory Type**

LPDDR5X-8533, MoP (Memory on Package) memory

**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]

One drive, up to 1TB M.2 SSD

**Storage Type**

| Disk Type | Interface |
|---|---|
| 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.

## Removable Storage

**Optical**

None

**Card Reader**

No card reader

## Multi-Media

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC233 codec

**Speakers**

Stereo speakers, 3W x2, Audio by HARMAN

**Microphone**

Dual-microphone array

**Camera**

5.0MP

## Power Supply

**Power Supply****

| Power | Type | Efficiency | Key Features |
|---|---|---|---|
| 90W | Adapter | 89% | Autosensing |
| 135W | Adapter | 90% | Autosensing |

# DESIGN

## Display

**Display****[1]

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Refresh Rate | Viewing Angle (L/R/U/D) | Key Features |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.8″ | FHD (1920x1080) | Multi-touch | IPS | 250nits | Anti-glare | 16:9 | 1300:1 | 99% sRGB | 100Hz | 89° / 89° / 89° / 89° | Borderless design, low blue light, flicker free |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.8″ | FHD (1920x1080) | Non-touch | IPS | 250nits | Anti-glare | 16:9 | 1300:1 | 99% sRGB | 100Hz | 89° / 89° / 89° / 89° | Borderless design, low blue light, flicker free |

**Touchscreen**

- 10-point multi-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), cloud grey
- Lenovo® Calliope Keyboard (USB connector), luna grey
- Wireless EOS Keyboard, cloud grey
- Wireless EOS Keyboard, luna grey
- No keyboard

**Mouse****

- Lenovo® Calliope Mouse (USB connector), Cloud Grey
- Lenovo® Calliope Mouse (USB connector), Luna Grey
- Wireless EOS Mouse, Cloud Grey
- Wireless EOS Mouse, Luna Grey
- No mouse

## Mechanical

**Form Factor**

AIO (23.8 inches)

**Dimensions (WxDxH)**[1]

539.5 x 192.1 x 437.97 mm (21.24 x 7.56 x 17.24 inches)

**Packaging Dimensions (WxDxH)**

670 x 229 x 553 mm (26.38 x 9.02 x 21.77 inches)

**Weight**[2]

Around 6.0 kg (13.23 lbs)

**Packaging Weight**

9.55 kg (21.01 lbs)

**Case Color****

- Cloud grey
- Luna grey

**Expansion Slots**

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

**Stand**

Monitor stand, Supports -5° to +15° tilt

**Others**

- (Optional) Wireless charger 15W
- 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® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, 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-A (USB 10Gbps / USB 3.2 Gen 2)
- 2x USB-A (Hi-Speed USB / USB 2.0)
- 1x HDMI® 2.1 TMDS
- 1x HDMI®-in
- 1x Ethernet (RJ-45)
- 1x power connector

**Left Ports**

- 1x Camera switch
- 1x Power button

**Right Ports**

- 1x headphone / microphone combo jack (3.5mm)
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2)

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
- More BIOS security features, please visit BIOS Simulator

# 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% (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® 9.0
- ErP Lot 3/7
- GREENGUARD®
- 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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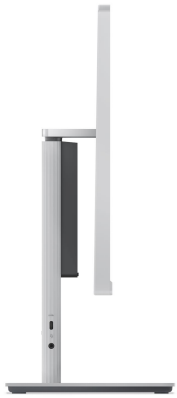

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