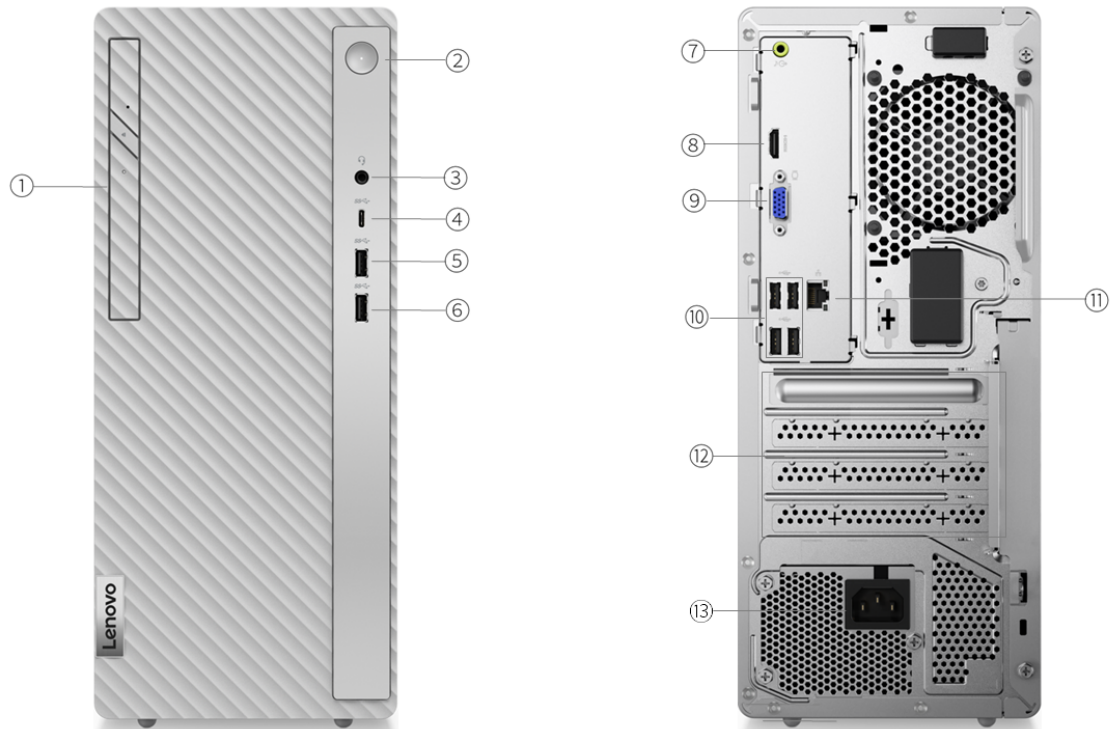


**OVERVIEW**



1. Optical drive *	8. HDMI 2.0b
2. Power button	9. VGA
3. Headphone / microphone combo jack (3.5mm)	10. 4x USB 2.0
4. USB-C 3.2 Gen 1	11. Ethernet (RJ-45)
5. USB 3.2 Gen 1	12. Optional ports on expansion cards
6. USB 3.2 Gen 2	13. Power connector
7. Audio line-out (3.5mm)	

Notes:

- Ports with \* are only available on selected models

## PERFORMANCE

### Processor

#### Processor Family

Intel® Celeron®, Intel Pentium®, or 12th Generation Intel Core™ i3 / i5 / i7 Processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Celeron G6900	2	2	3.4GHz	-	4MB	DDR4-3200	Intel UHD Graphics 710
Pentium Gold G7400	2	4	3.7GHz	-	6MB	DDR4-3200	Intel UHD Graphics 710
Core i3-12100	4 (4 P-core + 0 E-core)	8	P-core 3.3GHz	P-core 4.3GHz	12MB	DDR4-3200	Intel UHD Graphics 730
Core i5-12400	6 (6 P-core + 0 E-core)	12	P-core 2.5GHz	P-core 4.4GHz	18MB	DDR4-3200	Intel UHD Graphics 730
Core i5-12400F	6 (6 P-core + 0 E-core)	12	P-core 2.5GHz	P-core 4.4GHz	18MB	DDR4-3200	-
Core i7-12700	12 (8 P-core + 4 E-core)	20	P-core 2.1GHz / E-core 1.6GHz	P-core 4.8GHz / E-core 3.6GHz	25MB	DDR4-3200	Intel UHD Graphics 770
Core i7-12700F	12 (8 P-core + 4 E-core)	20	P-core 2.1GHz / E-core 1.6GHz	P-core 4.8GHz / E-core 3.6GHz	25MB	DDR4-3200	-

### Operating System

#### Operating System

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

### Graphics

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

Graphics	Type	Memory	Boost Clock	TGP	Connector	Max Resolution	Key Features	Remark
Intel UHD graphics 710	Integrated	Shared	-	-	1x VGA, 1x HDMI® 1.4b	1920x1200@50Hz(VGA), 1920x1080@60Hz(HDMI)	DirectX® 12	-
Intel UHD graphics 730	Integrated	Shared	-	-	1x VGA, 1x HDMI 1.4b	1920x1200@50Hz(VGA), 1920x1080@60Hz(HDMI)	DirectX 12	-
Intel UHD Graphics 770	Integrated	Shared	NA	NA	1x HDMI 1.4b, 1x VGA	1920x1200@50Hz(VGA), 1920x1080@60Hz(HDMI)	DirectX 12	-
AMD Radeon™ RX 6400	Discrete	4GB GDDR6	-	-	1x HDMI 2.1, 1x DP 1.4	7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP)	DirectX 12, OpenGL 4.6	-
Intel Iris® Xe Max Graphics	Discrete	2GB LPDDR4X	-	-	1x HDMI 1.4, 1x VGA	3840x2160@30Hz(HDMI), 1920x1080@60Hz(VGA)	DirectX 12	-

#### Notes:

1. The information of integrated graphics are not applicable for the models without integrated graphics (for the details, please refer to processor section)

### Monitor Support

#### Monitor Support

Supports up to 2 independent displays via onboard ports (VGA and HDMI), more displays support via discrete graphics

## Chipset

### Chipset

Intel B660 chipset

## Memory

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

Up to 32GB DDR4-3200

### Memory Slots

Two DDR4 UDIMM slots, dual-channel capable

### Memory Type

DDR4-3200

### Memory Protection

Non-ECC

#### Notes:

1. 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>

Up to two drives, 1x 3.5" HDD + 1x M.2 SSD

- 3.5" HDD up to 2TB
- M.2 SSD up to 1TB

### Storage Type

Disk Type	Interface	RPM	Offering	Security
3.5" SATA HDD	SATA 6Gb/s	7.2K	-	-
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 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

- DVD burner (DVD±RW), SATA 1.5Gb/s, slim (9.0mm)
- None

### Card Reader

No card reader

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC623-CG codec

### Speakers

No speakers

## Power Supply

### Power Supply

Power	Type	Efficiency	Key Features
260W	Fixed	90%	100-240V, 50-60Hz

260W	Fixed	85%	100-240V, 50-60Hz
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## DESIGN

### Input Device

#### Keyboard

- EOS Wireless Keyboard, black
- Lenovo Calliope Keyboard (USB connector), black
- No keyboard

#### Mouse

- Lenovo Calliope Mouse (USB connector), black
- No mouse

### Mechanical

#### Form Factor

Tower (13.6L)

#### Dimensions (WxDxH)

145 x 287.9 x 340 mm (5.71 x 11.33 x 13.39 inches)

#### Packaging Dimensions (WxDxH)

240 x 395 x 530 mm (9.45 x 15.55 x 20.87 inches)

#### Weight

5.4 kg (11.9 lbs)

#### Packaging Weight

All models: 7.4 kg (16.31 lbs)

#### Case Color

Cloud grey

#### Bays

1x 3.5" disk bay

#### Expansion Slots

- One PCIe 4.0 x1, full height
- One PCIe 4.0 x16, full height
- Two M.2 slots (one for WLAN, one for SSD)

#### Cooling System (Fan & Cooler)

- (Optional) 1x front system fan, 1x rear system fan
- (Optional) 1x front system fan
- (Optional) 1x rear system fan

## CONNECTIVITY

### Network

#### Ethernet

Gigabit Ethernet, 1x RJ-45

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

- 802.11ac 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card
- Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2, 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>

#### Front Ports

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 2

- 1x USB-C® 3.2 Gen 1 (support data transfer and 5V@3A charging)
- 1x headphone / microphone combo jack (3.5mm)

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

- 4x USB 2.0
- 1x VGA
- 1x HDMI 2.0b
- 1x Ethernet (RJ-45)
- 1x headphone (3.5mm)
- 1x power connector

**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 chipset

**BIOS Security**

- Administrator password
- Power-on password
- Hard disk password

## 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

**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: -40°C (-40°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

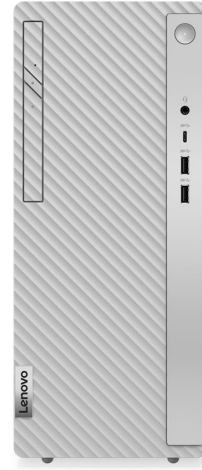
### Green Certifications

- (Optional) ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

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