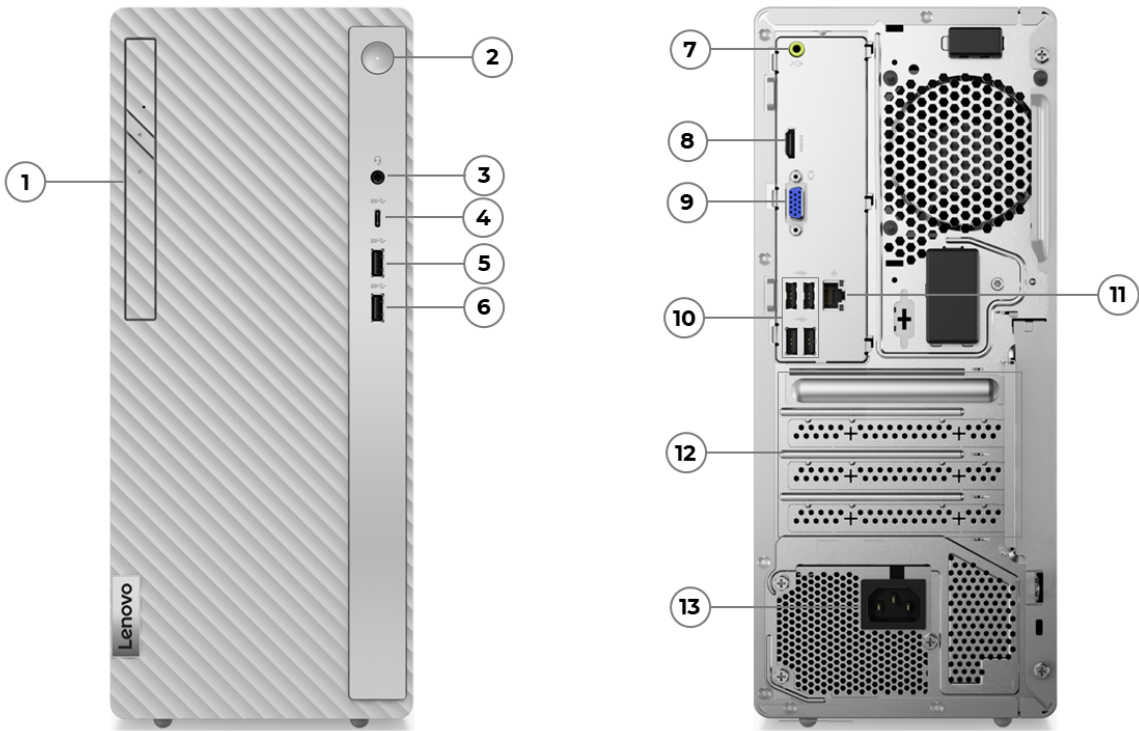


OVERVIEW



|                                              |                                       |
|----------------------------------------------|---------------------------------------|
| 1. Optical drive                             | 8. HDMI 2.1 TMDs                      |
| 2. Power button                              | 9. VGA                                |
| 3. Headphone / microphone combo jack (3.5mm) | 10. 4x USB-A (Hi-Speed USB)           |
| 4. USB-C (USB 5Gbps), with 15W charging      | 11. Ethernet (RJ-45)                  |
| 5. USB-A (USB 5Gbps)                         | 12. Optional ports on expansion cards |
| 6. USB-A (USB 5Gbps)                         | 13. Power connector                   |
| 7. Audio-out (3.5mm)                         |                                       |

PERFORMANCE

Processor

Processor Family

13th / 14th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor\*\*

| Processor Name | Cores                     | Threads | Base Frequency                | Max Frequency                                          | Cache                                    | Memory Support | Processor Graphics      |
|----------------|---------------------------|---------|-------------------------------|--------------------------------------------------------|------------------------------------------|----------------|-------------------------|
| Core i3-13100  | 4 (4 P-core + 0 E-core)   | 8       | P-core 3.4GHz                 | P-core 4.5GHz                                          | 5MB L2 Cache / 12MB Intel® Smart Cache   | DDR5-4800      | Intel® UHD Graphics 730 |
| Core i5-13400  | 10 (6 P-core + 4 E-core)  | 16      | P-core 2.5GHz / E-core 1.8GHz | P-core 4.6GHz / E-core 3.3GHz                          | 9.5MB L2 Cache / 20MB Intel® Smart Cache | DDR5-4800      | Intel® UHD Graphics 730 |
| Core i7-13700  | 16 (8 P-core + 8 E-core)  | 24      | P-core 2.1GHz / E-core 1.5GHz | Max Turbo up to 5.2GHz / P-core 5.1GHz / E-core 4.1GHz | 24MB L2 Cache / 30MB Intel® Smart Cache  | DDR5-5600      | Intel® UHD Graphics 770 |
| Core i3-14100  | 4 (4 P-core + 0 E-core)   | 8       | P-core 3.5GHz                 | P-core 4.7GHz                                          | 5MB L2 Cache / 12MB Intel® Smart Cache   | DDR5-4800      | Intel® UHD Graphics 730 |
| Core i5-14400  | 10 (6 P-core + 4 E-core)  | 16      | P-core 2.5GHz / E-core 1.8GHz | P-core 4.7GHz / E-core 3.5GHz                          | 9.5MB L2 Cache / 20MB Intel® Smart Cache | DDR5-4800      | Intel® UHD Graphics 730 |
| Core i7-14700  | 20 (8 P-core + 12 E-core) | 28      | P-core 2.1GHz / E-core 1.5GHz | Max Turbo up to 5.4GHz / P-core 5.3GHz / E-core 4.2GHz | 28MB L2 Cache / 33MB Intel® Smart Cache  | DDR5-5600      | Intel® UHD Graphics 770 |

Operating System

Operating System\*\*

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

Graphics

Graphics\*\*

| Graphics                     | Type       | Memory    | Max Resolution                             | Connector                 | Key Features            |
|------------------------------|------------|-----------|--------------------------------------------|---------------------------|-------------------------|
| Intel® UHD graphics 730      | Integrated | Shared    | 2048x1536@50Hz(VGA), 3840x2160@60Hz(HDMI®) | 1x VGA, 1x HDMI® 2.1 TMDS | DirectX® 12             |
| Intel® UHD graphics 770      | Integrated | Shared    | 2048*1536@50Hz(VGA), 3840x2160@60Hz(HDMI®) | 1x VGA, 1x HDMI® 2.1 TMDS | DirectX® 12             |
| Intel® Arc™ A310 LP Graphics | Discrete   | 4GB GDDR6 | 3840x2160@60Hz(HDMI®), 1600x1200@60Hz(VGA) | 1x HDMI® 2.0b, 1x VGA     | DirectX® 12, OpenGL 4.6 |

Monitor Support

Monitor Support

Supports up to 2 independent displays via onboard ports (VGA + HDMI®)

Chipset

Chipset

Intel® B760 chipset

Memory

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

Up to 32GB DDR5-5600

Memory Slots

Two DDR5 UDIMM slots, dual-channel capable

Memory Type\*\*[2]

- DDR5-4800
- DDR5-5600

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 DDR5-5600 but may run as DDR5-4800, or DDR5-5600 depending on the memory support capability of processor.

Storage

Max Storage Support[1]

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

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

Storage Type\*\*

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

- 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
- 24-bit DAC supports 44.1K/48K/96K sample rate, 2 channel DAC supports 16/20/24-bit PCM format for independent two stereo channel or 2.1 audio playback
- 24-bit ADC supports 44.1K/48K/96K sample rate, 2 channel ADC supports 16/20/24-bit PCM format for independent two stereo channel audio inputs

Speakers

No speakers

Power Supply

Power Supply\*\*

| Power   | Type  | Efficiency | Key Features      |
|---------|-------|------------|-------------------|
| 260W[1] | Fixed | 90%        | 100-240V, 50-60Hz |
| 310W    | Fixed | 92%        | 100-240V, 50-60Hz |

Notes:

- [1] Hybrid PSU sources configured for supply assurance; assembled product has maximum wattage of 258W.

## DESIGN

### Input Device

#### Keyboard

- 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<sup>[1]</sup>

Around 4.9 kg (10.8 lbs)

#### Packaging Weight

All models: 6.9 kg (15.21 lbs)

#### Case Color

Cloud grey

#### Bays

1x 3.5" disk bay

#### Expansion Slots

- One PCIe® 4.0 x16, full height
- One PCIe® 3.0 x1, full height
- Two M.2 slots (one for WLAN, one for SSD)

#### Cooling System (Fan & Cooler)\*\*

- (Optional) 1x front system fan
- (Optional) 1x front system fan, 1x rear system fan
- (Optional) 1x rear system fan
- None

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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®\*\*<sup>[1]</sup>

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 card
- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- No WLAN and Bluetooth®

#### Onboard Ethernet

Gigabit Ethernet, 1x RJ-45

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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>

### Front Ports

- 1x USB-C® (USB 5Gbps / USB 3.2 Gen 1), with 15W charging
- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x headphone / microphone combo jack (3.5mm)

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

- 4x USB-A (Hi-Speed USB / USB 2.0)
- 1x HDMI® 2.1 TMDS
- 1x VGA
- 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;

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](#)

## SECURITY & PRIVACY

### Security

#### Security Chip

Firmware TPM 2.0 integrated in processor

#### BIOS Security

- Administrator password
- Hard disk password
- Power-on 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/warrantylookup>.

## OPERATING REQUIREMENTS

### Operating Environment

#### Temperature

- Operating: 10°C (50°F) to 35°C (95°F)
- Storage: -40°C (-40°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<sup>[1]</sup>

#### Green Certifications

- (Optional) ENERGY STAR® 8.0
- 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>.

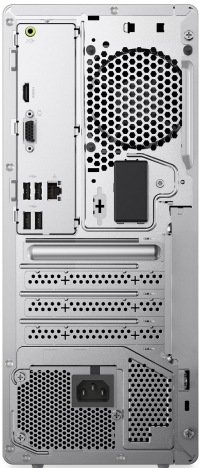
- Feature with \*\* means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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