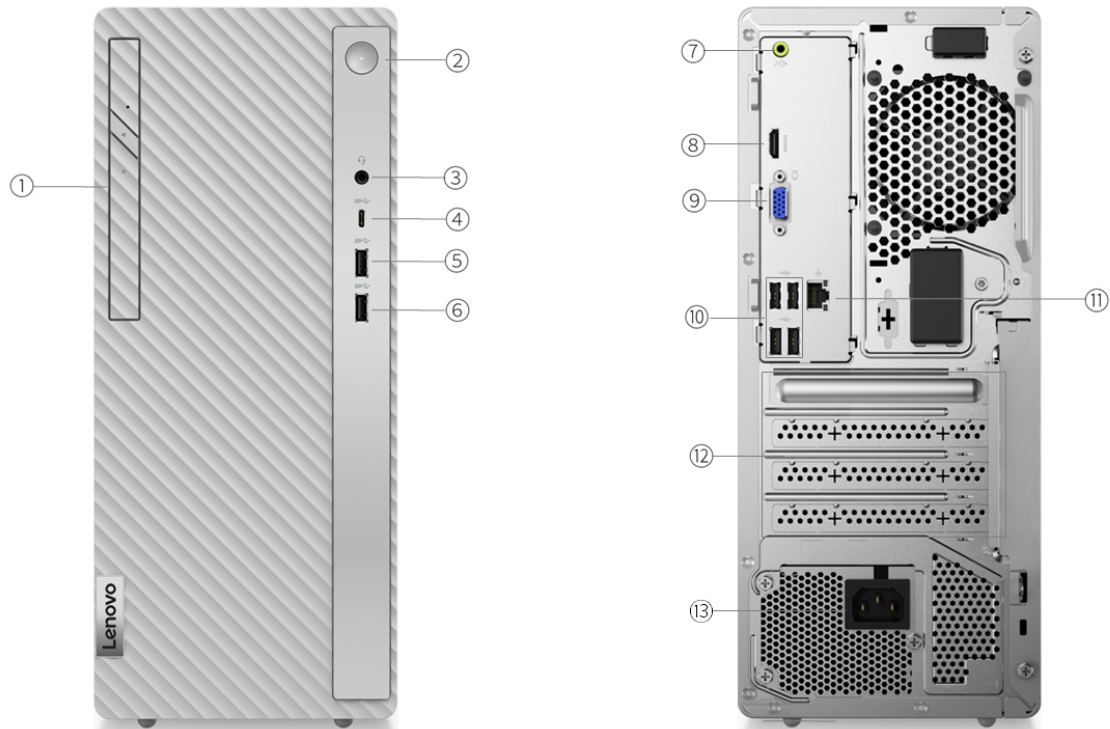


**OVERVIEW**



|  |                                       |
|--|---------------------------------------|
| 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:

- Items 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\*\*<sup>[1]</sup>

| 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 | Max Turbo up to 4.9GHz / 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 | Max Turbo up to 4.9GHz / P-core 4.8GHz / E-core 3.6GHz | 25MB  | DDR4-3200      | -                       |

Notes:

<sup>[1]</sup> 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
- No operating system

### Graphics

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

| Graphics                               | Type       | Memory      | Boost Clock | TGP | Connector                    | Max Resolution                             | Key Features            |
|--|------------|-------------|-------------|-----|------------------------------|--|-------------------------|
| Intel® UHD Graphics 770 <sup>[2]</sup> | Integrated | Shared      | NA          | NA  | 1x HDMI® 1.4b, 1x VGA        | 1920x1200@50Hz(VGA), 1920x1080@60Hz(HDMI®) | DirectX® 12             |
| Intel® UHD graphics 710 <sup>[3]</sup> | Integrated | Shared      | -           | -   | 1x VGA, 1x HDMI® 1.4b        | 1920x1200@50Hz(VGA), 1920x1080@60Hz(HDMI®) | DirectX® 12             |
| Intel® UHD graphics 730 <sup>[4]</sup> | Integrated | Shared      | -           | -   | 1x VGA, 1x HDMI® 1.4b        | 1920x1200@50Hz(VGA), 1920x1080@60Hz(HDMI®) | DirectX® 12             |
| AMD Radeon™ RX 6400                    | Discrete   | 4GB GDDR6   | -           | -   | 1x HDMI® 2.1 FRL, 1x DP 1.4a | 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:

<sup>[1]</sup>, <sup>[2]</sup>, <sup>[3]</sup>, <sup>[4]</sup> The information of integrated graphics are not applicable for the models with processor which has no

integrated graphics inside (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.

## 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  |
|---------------|---------------------------|------|
| 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 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

### 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 |

**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)<sup>[1]</sup>**

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>[2]</sup>**

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

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

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

**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****Onboard Ethernet**

Gigabit Ethernet, 1x RJ-45

**WLAN + Bluetooth®\*\***

## IdeaCentre 5 14IAB7

- 802.11ac 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 Card<sup>[1]</sup>
- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 card<sup>[2]</sup>

Notes:

[1], [2] Bluetooth® 5.2 is hardware ready but may run at a lower version due to OS limitations.

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

#### Front Ports

- 1x USB-C® 3.2 Gen 1 (support data transfer and 5V@3A charging)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)

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

- 4x USB 2.0
- 1x HDMI® 2.0b
- 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.

[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<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
- OB

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://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<sup>[1]</sup>

#### Green Certifications

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

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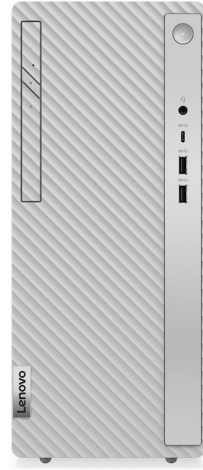
#### Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

- Feature with \*\* means that only one offering listed under the feature is configured on selected models.
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