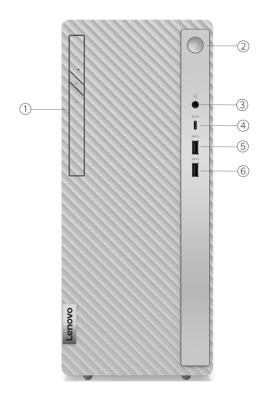
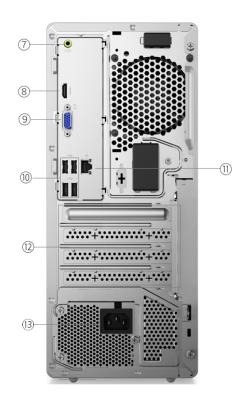


# **OVERVIEW**





| 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\*\*[1]

| Processor<br>Name      | Cores                           | Threads | Base Frequency                   | Max Frequency  | Cache  | Memory<br>Support | Processor<br>Graphics      |
|------------------------|---------------------------------|---------|----------------------------------|--|--|-------------------|----------------------------|
| Celeron®<br>G6900      | 2                               | 2       | 3.4GHz                           | -  | 2.5MB L2 Cache<br>/ 4MB Intel®<br>Smart Cache  | DDR4-<br>3200     | Intel® UHD<br>Graphics 710 |
| Pentium®<br>Gold G7400 | 2                               | 4       | 3.7GHz                           | -  | 2.5MB L2 Cache<br>/ 6MB Intel®<br>Smart Cache  | DDR4-<br>3200     | Intel® UHD<br>Graphics 710 |
| Core i3-<br>12100      | 4 (4 P-<br>core + 0<br>E-core)  | 8       | P-core 3.3GHz                    | P-core 4.3GHz  | 5MB L2 Cache /<br>12MB Intel®<br>Smart Cache   | DDR4-<br>3200     | Intel® UHD<br>Graphics 730 |
| Core i5-<br>12400      | 6 (6 P-<br>core + 0<br>E-core)  | 12      | P-core 2.5GHz                    | P-core 4.4GHz  | 7.5MB L2 Cache<br>/ 18MB Intel®<br>Smart Cache | DDR4-<br>3200     | Intel® UHD<br>Graphics 730 |
| Core i5-<br>12400F     | 6 (6 P-<br>core + 0<br>E-core)  | 12      | P-core 2.5GHz                    | P-core 4.4GHz  | 18MB Intel®<br>Smart Cache                     | DDR4-<br>3200     | -                          |
| Core i7-<br>12700      | 12 (8 P-<br>core + 4<br>E-core) | 20      | P-core 2.1GHz /<br>E-core 1.6GHz | Max Turbo up to<br>4.9GHz / P-core 4.8GHz<br>/ E-core 3.6GHz | 25MB Intel®<br>Smart Cache                     | DDR4-<br>3200     | Intel® UHD<br>Graphics 770 |
| Core i7-<br>12700F     | 12 (8 P-<br>core + 4<br>E-core) | 20      | P-core 2.1GHz /<br>E-core 1.6GHz | Max Turbo up to<br>4.9GHz / P-core 4.8GHz<br>/ E-core 3.6GHz | 12MB L2 Cache<br>/ 20MB Intel®<br>Smart Cache  | DDR4-<br>3200     | -                          |

#### Notes:

[1] 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 preload operating system

### **Graphics**

### Graphics\*\*[1]

| Graphics                                  | Туре       | Memory         | Boost<br>Clock | TGP | Max Resolution   | Connector                | Key Features |
|---|------------|----------------|----------------|-----|--|--------------------------|--------------|
| Intel® UHD<br>Graphics 770                | Integrated | Shared         | NA             | NA  | 1920x1200@50Hz(VGA),<br>1920x1080@60Hz(HDMI®)              | 1x HDMI® 1.4b,<br>1x VGA | DirectX® 12  |
| Intel® UHD<br>graphics 710 <sup>[3]</sup> | Integrated | Shared         | -              | -   | 1920x1200@50Hz(VGA),<br>1920x1080@60Hz(HDMI®)              | 1x VGA, 1x<br>HDMI® 1.4b | DirectX® 12  |
| Intel® UHD<br>graphics 730 <sup>[4]</sup> | Integrated | Shared         | -              | -   | 1920x1200@50Hz(VGA),<br>1920x1080@60Hz(HDMI <sup>®</sup> ) | 1x VGA, 1x<br>HDMI® 1.4b | DirectX® 12  |
| Intel® Iris® Xe<br>Max Graphics           | Discrete   | 2GB<br>LPDDR4X | -              | -   | 3840x2160@30Hz(HDMI®),<br>1920x1080@60Hz(VGA)              | 1x HDMI® 1.4, 1x<br>VGA  | DirectX® 12  |
| AMD Radeon™                               | Discrete   | 4GB            | -              | -   | 7680x4320@60Hz(HDMI®),                                     | 1x HDMI® 2.1             | DirectX® 12, |

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| RX 6400 |  | GDDR6 |  |  | 7680x4320@60Hz(DP) | FRL, 1x DP 1.4a | OpenGL 4.6 |
|---------|--|-------|--|--|--------------------|-----------------|------------|
|---------|--|-------|--|--|--------------------|-----------------|------------|

Notes:

[1], [2], [3], [4] 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[1]

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**

### Max Storage Support[1]

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  | PCle® NVMe®, PCle® 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



- 24-bit DAC supports 44.1K/48K/96K sample rate, 4 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, 4 channel ADC supports 16/20/24-bit PCM format for independent two stereo channel audio inputs

#### **Speakers**

No speakers

## **Power Supply**

### Power Supply\*\*

| Power | Туре  | Efficiency | Key Features      |
|-------|-------|------------|-------------------|
| 260W  | Fixed | 90%        | 100-240V, 50-60Hz |
| 260W  | Fixed | 85%        | 100-240V, 50-60Hz |

# **DESIGN**

### **Input Device**

#### Keyboard\*\*

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

#### Mouse

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

### Mechanical

#### **Form Factor**

Tower (13.6L)

#### Dimensions (WxDxH)[1]

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 PCle® 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 front system fan, 1x rear system fan
- (Optional) 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**

#### WLAN + Bluetooth®\*\*[1]

- Wi-Fi® 5, 802.11ac 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 card[2]
- Wi-Fi<sup>®</sup> 6, 802.11ax 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.1, M.2 card<sup>[3]</sup>

#### **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.

[2], [3] 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[2]

- 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.

Thunderbolt<sup>™</sup> 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 chipset

### **BIOS Security**

- · Administrator password
- Hard disk password
- Power-on password
- More BIOS security features, please visit BIOS Simulator[1]

#### 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 <a href="https://smartfind.lenovo.com/">https://smartfind.lenovo.com/</a>. To learn more details of warranty policy, please access <a href="https://support.lenovo.com/warrantylookup/warrantypolicy">https://support.lenovo.com/warrantylookup/warrantypolicy</a>.

## **OPERATING REQUIREMENTS**

### **Operating Environment**

#### **Temperature**

Operating: 5°C (41°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**

- (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 <a href="https://compliance.lenovo.com">https://compliance.lenovo.com</a>.

- Feature with \*\* means that only one option listed under the feature can be configured on selected models.

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