OVERVIEW

1. Power button
2. PC / monitor mode switch
3. Power connector
4. Headphone / microphone combo jack (3.5mm)
5. HDMI-in 2.1 TMDS
6. Ethernet (RJ-45)
7. HDMI-out 2.1 TMDS
8. USB 2.0
9. Top camera
10. USB 3.2 Gen 2
11. USB-C 3.2 Gen 2
**PERFORMANCE**

**Processor**

**Processor Family**

12th Generation Intel® Core™ i5 / i7 Processor

**Processor**

<table>
<thead>
<tr>
<th>Processor Name</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Frequency</th>
<th>Cache</th>
<th>Memory Support</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i5-12500H</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 2.5GHz / E-core 1.8GHz</td>
<td>P-core 4.5GHz / E-core 3.3GHz</td>
<td>18MB</td>
<td>DDR5-4800</td>
<td>Intel Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core i7-12700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.3GHz / E-core 1.7GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>24MB</td>
<td>DDR5-4800</td>
<td>Intel Iris Xe Graphics</td>
</tr>
</tbody>
</table>

**Notes:**

1. Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

**Operating System**

**Operating System**

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

**Graphics**

**Graphics**

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Boost Clock</th>
<th>TGP</th>
<th>Connector</th>
<th>Max Resolution</th>
<th>Key Features</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Iris Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>-</td>
<td>-</td>
<td>1x HDMI 2.1 TMDS</td>
<td>3840x2160@60Hz(HDMI)</td>
<td>DirectX 12</td>
<td>-</td>
</tr>
<tr>
<td>Intel Arc A370M Graphics</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>-</td>
<td>-</td>
<td>1x HDMI 2.1 TMDS</td>
<td>3840x2160@60Hz(HDMI)</td>
<td>DirectX 12</td>
<td>-</td>
</tr>
</tbody>
</table>

**Notes:**

1. The information of integrated graphics are not applicable for the models without integrated graphics (for the details, please refer to processor section)
2. Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

**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**

Up to 16GB DDR5-4800

**Memory Slots**

Two DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**

DDR5-4800

**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
One drive, up to 1TB M.2 SSD

<table>
<thead>
<tr>
<th>Storage Type</th>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M.2 2280 SSD</td>
<td>PCIe® NVMe®, PCIe 3.0 x4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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
None

Card Reader
No card reader

Multi-Media

Audio Chip
High Definition (HD) Audio, Realtek® ALC274-CG codec

Speakers
Stereo speakers, 5W x2, JBL*-branded

Microphone
Dual array microphone

Camera
- 5.0-megapixel, fixed focus
- 5.0-megapixel IR camera, fixed focus
- 5.0-megapixel IR camera, fixed focus, with AI chip

Power Supply

Power Supply

<table>
<thead>
<tr>
<th>Power</th>
<th>Type</th>
<th>Efficiency</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>180W</td>
<td>Fixed</td>
<td>90%</td>
<td>100V - 240V, 50-60Hz</td>
</tr>
<tr>
<td>230W</td>
<td>Fixed</td>
<td>92%</td>
<td>100V - 240V, 50-60Hz</td>
</tr>
</tbody>
</table>

DESIGN

Display

Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch</th>
<th>Type</th>
<th>Brightness</th>
<th>Surface</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Color Gamut</th>
<th>Viewing Angle</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.8&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>250 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>72% NTSC</td>
<td>horizontal: +/-89°, vertical: +/-89°</td>
<td>Borderless design</td>
</tr>
</tbody>
</table>

Power Supply

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</tbody>
</table>
### Input Device

**Pen**
No support

**Keyboard**
- Euterpe Wireless Keyboard, grey
- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard, black

**Mouse**
- Lenovo Calliope Mouse (USB connector), black
- Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Euterpe Wireless Mouse, grey

### Mechanical

**Form Factor**
AIO (23.8 inches)

**Dimensions (WxDxH)**
541.2 x 187.57 x 433.38 mm (21.3 x 7.38 x 17.06 inches)

**Packaging Dimensions (WxDxH)**
187.57 x 541 x 433.38 mm (7.38 x 21.29 x 17.26 inches)

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discrete graphic model</td>
<td>8.07 kg (17.79 lbs)</td>
</tr>
<tr>
<td>Integrated graphic model</td>
<td>7.57 kg (16.68 lbs)</td>
</tr>
</tbody>
</table>

**Packaging Weight**
- Discrete graphic model: 11.81 kg (26.03 lbs)
- Integrated graphic model: 11.29 kg (24.89 lbs)

**Case Color**
Storm grey

**Bays**
No bays

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

**Stand**
Monitor stand, supports -5° to +25° tilt

**Others**
(Optional) Wireless charger 15W

### CONNECTIVITY
Network

Ethernet
Gigabit Ethernet, 1x RJ-45

WLAN + Bluetooth®

• Wi-Fi® 5, 802.11ac 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
• Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 card

Notes:
1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation

Ports

Rear Ports

• 1x USB 2.0
• 1x USB 3.2 Gen 2
• 1x USB-C® 2.0 Gen 2 with DisplayPort™-In function (Only for QHD models)
• 1x USB-C 3.2 Gen 2
• 1x HDMI 2.1 TMDS
• 1x HDMI-in
• 1x Ethernet (RJ-45)
• 1x headphone / microphone combo jack (3.5mm)
• 1x mode switcher
• 1x power connector

Left Ports

1x USB 3.2 Gen 1

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 SoC

BIOS Security
• Administrator password
• Power-on password
• Hard disk password

MANAGEABILITY

System Management

System Management
None

SERVICE

Warranty

Base Warranty
• 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: -20°C (-4°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
• ErP Lot 3 and Lot 7
• RoHS compliant

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