OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Optical drive *</td>
</tr>
<tr>
<td>2.</td>
<td>Microphone mute button</td>
</tr>
<tr>
<td>3.</td>
<td>USB-C 3.2 Gen 1</td>
</tr>
<tr>
<td>4.</td>
<td>2x USB 3.2 Gen 2</td>
</tr>
<tr>
<td>5.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>6.</td>
<td>Power button</td>
</tr>
<tr>
<td>7.</td>
<td>Card reader *</td>
</tr>
<tr>
<td>8.</td>
<td>DisplayPort</td>
</tr>
<tr>
<td>9.</td>
<td>Power connector</td>
</tr>
<tr>
<td>10.</td>
<td>Serial *</td>
</tr>
<tr>
<td>11.</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>12.</td>
<td>4x USB 3.2 Gen 1</td>
</tr>
<tr>
<td>13.</td>
<td>Kensington Security Slot</td>
</tr>
</tbody>
</table>

Notes:
• Ports with * are only available on selected models
PERFORMANCE

Processor

Processor Family
Intel® Celeron®, Intel Pentium®, or 10th Generation Intel Core™ i3 / i5 / i7 / i9 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>Celeron G5900</td>
<td>2</td>
<td>2</td>
<td>3.4GHz</td>
<td>-</td>
<td>2MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 610</td>
</tr>
<tr>
<td>Celeron G5905</td>
<td>2</td>
<td>2</td>
<td>3.5GHz</td>
<td>-</td>
<td>4MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 610</td>
</tr>
<tr>
<td>Celeron G5920</td>
<td>2</td>
<td>2</td>
<td>3.5GHz</td>
<td>-</td>
<td>2MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 610</td>
</tr>
<tr>
<td>Celeron G5925</td>
<td>2</td>
<td>2</td>
<td>3.6GHz</td>
<td>-</td>
<td>4MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 610</td>
</tr>
<tr>
<td>Pentium Gold G6400</td>
<td>2</td>
<td>4</td>
<td>4.0GHz</td>
<td>-</td>
<td>4MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 610</td>
</tr>
<tr>
<td>Pentium Gold G6500</td>
<td>2</td>
<td>4</td>
<td>4.1GHz</td>
<td>-</td>
<td>4MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Pentium Gold G6600</td>
<td>2</td>
<td>4</td>
<td>4.2GHz</td>
<td>-</td>
<td>4MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i3-10100</td>
<td>4</td>
<td>8</td>
<td>3.6GHz</td>
<td>4.3GHz</td>
<td>6MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i3-10300</td>
<td>4</td>
<td>8</td>
<td>3.7GHz</td>
<td>4.4GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i3-10320</td>
<td>4</td>
<td>8</td>
<td>3.8GHz</td>
<td>4.6GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10400</td>
<td>6</td>
<td>12</td>
<td>2.9GHz</td>
<td>4.3GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10500</td>
<td>6</td>
<td>12</td>
<td>3.1GHz</td>
<td>4.5GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10600</td>
<td>6</td>
<td>12</td>
<td>3.3GHz</td>
<td>4.8GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i7-10700</td>
<td>8</td>
<td>16</td>
<td>2.9GHz</td>
<td>4.8GHz</td>
<td>16MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i9-10900</td>
<td>10</td>
<td>20</td>
<td>2.8GHz</td>
<td>5.2GHz</td>
<td>20MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
</tr>
</tbody>
</table>

Operating System

Operating System
- Windows® 10 Pro 64
- Windows 10 Home 64
- Windows 10 IoT Enterprise
- Ubuntu Linux
- No operating system

Graphics

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Connector</th>
<th>Max Resolution</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel UHD graphics 630</td>
<td>Integrated</td>
<td>Shared</td>
<td>1x DP 1.2</td>
<td>4096x2304@60Hz(DP)</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>Intel UHD graphics 610</td>
<td>Integrated</td>
<td>Shared</td>
<td>1x DP 1.2</td>
<td>4096x2304@60Hz(DP)</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>AMD Radeon™ 625</td>
<td>Discrete</td>
<td>2GB GDDR5</td>
<td>1x DP 1.2</td>
<td>4096x2304@60Hz(DP)</td>
<td>DirectX 12</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)

Monitor Support

Monitor Support
Supports up to 2 independent displays via native display and 1 external monitor; supports external monitor via DisplayPort™

Chipset

Chipset
Intel Q470 chipset
**Memory**

Max Memory

Up to 64GB DDR4-2933

Memory Slots

Two DDR4 DIMM slots, dual-channel capable

Memory Type

- DDR4-2666
- DDR4-2933

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

Up to three drives, 2x 2.5" HDD + 1x M.2 SSD

- 2.5" HDD up to 2TB each
- M.2 SSD up to 1TB
- Optional Intel Optane™ Memory, M.2

**Storage Type**

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5&quot; SATA HDD</td>
<td>SATA 6Gb/s</td>
<td>5.4K</td>
<td></td>
</tr>
<tr>
<td>2.5&quot; SATA HDD</td>
<td>SATA 6Gb/s</td>
<td>7.2K</td>
<td></td>
</tr>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>Opal</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Intel Optane Memory M10</td>
<td>PCIe NVMe, PCIe 3.0 x2</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**RAID**

RAID 0/1 support for HDDs

---

**Notes:**

1. RAID is not preset by default, user can config RAID 0/1 according to the demand

---

**Removable Storage**

**Optical**

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

**Card Reader**

- 3-in-1 card reader
- No card reader

---

**Multi-Media**

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC233 codec

**Microphone**

Dual array microphone

**Camera**

- 1080p, with ThinkShutter (physical switch on/off)
- IR & 1080p, with ThinkShutter (physical switch on/off), Windows Hello support
• No camera

**Power Supply**

<table>
<thead>
<tr>
<th>Power Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
</tr>
<tr>
<td>150W</td>
</tr>
<tr>
<td>170W</td>
</tr>
</tbody>
</table>

**DESIGN**

**Display**

<table>
<thead>
<tr>
<th>Display</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td><strong>Resolution</strong></td>
<td><strong>Touch</strong></td>
<td><strong>Type</strong></td>
<td><strong>Brightness</strong></td>
<td><strong>Surface</strong></td>
<td><strong>Aspect Ratio</strong></td>
<td><strong>Contrast Ratio</strong></td>
<td><strong>Color Gamut</strong></td>
</tr>
<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>-</td>
</tr>
<tr>
<td>23.8&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>350 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>-</td>
</tr>
<tr>
<td>23.8&quot;</td>
<td>FHD (1920x1080)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>250 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>-</td>
</tr>
</tbody>
</table>

**Touchscreen**

- Advanced In-cell Touch (AIT), supports 10-point touch
- Non-touch

**Input Device**

**Keyboard**

- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- Lenovo Traditional Keyboard (USB connector), black
- No keyboard

**Mouse**

- Lenovo Calliope Mouse (USB connector), black
- Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
- No mouse

**Mechanical**

**Buttons**

- Power button
- PrivacyGuard on/off button (PrivacyGuard model only)
- Microphone mute button

**Form Factor**

AIO (23.8 inches)

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Models (with full function monitor stand, with ODD, with PrivacyGuard, with camera) | 541 x 200 x 414.2-494.2 mm (21.3 x 7.9 x 16.3-19.5 inches)
---
Models (with full function monitor stand, with ODD, without PrivacyGuard, with camera) | 541 x 200 x 414.2-494.2 mm (21.3 x 7.9 x 16.3-19.5 inches)
---
Models (with full function monitor stand, without ODD, with PrivacyGuard, with camera) | 541 x 200 x 414.2-494.2 mm (21.3 x 7.9 x 16.3-19.5 inches)
---
Models (with full function monitor stand, without ODD, without PrivacyGuard, with camera) | 541 x 200 x 414.2-494.2 mm (21.3 x 7.9 x 16.3-19.5 inches)
---
Models (with UltraFlex IV stand, with ODD, without PrivacyGuard, with camera) | Lowest in flat mode: 541 x 312.8 x 227.4 mm (21.3 x 12.3 x 9.0 inches)  
Highest in vertical mode: 541 x 232.7 x 467.7 mm (21.3 x 9.2 x 18.4 inches)
---
Models (with UltraFlex IV stand, without ODD, without PrivacyGuard, with camera) | Lowest in flat mode: 541 x 312.8 x 227.4 mm (21.3 x 12.3 x 9.0 inches)  
Highest in vertical mode: 541 x 232.7 x 467.7 mm (21.3 x 9.2 x 18.4 inches)
---
Models (without stand, with ODD, with PrivacyGuard, with camera) | 541 x 61.3 x 340.5 mm (21.3 x 2.4 x 13.4 inches)
---
Models (without stand, with ODD, without PrivacyGuard, with camera) | 541 x 57.8 x 340.5 mm (21.3 x 2.3 x 13.4 inches)
---
Models (without stand, without ODD, with PrivacyGuard, with camera) | 541 x 49.5 x 340.5 mm (21.3 x 1.9 x 13.4 inches)
---
Models (without stand, without ODD, without PrivacyGuard, with camera) | 541 x 46 x 340.5 mm (21.3 x 1.8 x 13.4 inches)
---

### Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models (with full function monitor stand, with ODD, with PrivacyGuard, with camera)</td>
<td>8.71 kg (19.2 lbs)</td>
</tr>
<tr>
<td>Models (with full function monitor stand, with ODD, without PrivacyGuard, with camera)</td>
<td>7.84 kg (17.3 lbs)</td>
</tr>
<tr>
<td>Models (with full function monitor stand, without ODD, with PrivacyGuard, with camera)</td>
<td>8.39 kg (18.5 lbs)</td>
</tr>
<tr>
<td>Models (with full function monitor stand, without ODD, without PrivacyGuard, with camera)</td>
<td>7.51 kg (16.6 lbs)</td>
</tr>
<tr>
<td>Models (with UltraFlex IV stand, with ODD, without PrivacyGuard, with camera)</td>
<td>8.58 kg (18.9 lbs)</td>
</tr>
<tr>
<td>Models (with UltraFlex IV stand, without ODD, without PrivacyGuard, with camera)</td>
<td>8.26 kg (18.2 lbs)</td>
</tr>
<tr>
<td>Models (without stand, with ODD, with PrivacyGuard, with camera)</td>
<td>6.45 kg (14.2 lbs)</td>
</tr>
<tr>
<td>Models (without stand, with ODD, without PrivacyGuard, with camera)</td>
<td>5.57 kg (12.3 lbs)</td>
</tr>
<tr>
<td>Models (without stand, without ODD, with PrivacyGuard, with camera)</td>
<td>6.13 kg (13.5 lbs)</td>
</tr>
<tr>
<td>Models (without stand, without ODD, without PrivacyGuard, with camera)</td>
<td>5.25 kg (11.6 lbs)</td>
</tr>
</tbody>
</table>

### Case Color

- Black

### Bays

- 2x 2.5” disk bay (2nd 2.5” HDD occupies ODD bay)
- 1x slim ODD bay

### Expansion Slots

- Two M.2 slots (one for WLAN, one for SSD)

### EOU

- Toolless cover and stand assembly / removal

### Stand

- Full function monitor stand, supports -5° to +30° tilt, up to 80mm lift
- UltraFlex IV stand, supports -5° to +70° tilt, up to 164mm lift (flat mode) / up to 115mm lift (vertical mode)
- No stand

### Mounting

- Supports VESA mount 100mm
**CONNECTIVITY**

**Network**

**Onboard Ethernet**
Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ45, supports Wake-on-LAN

**Optional Ethernet**
No optional Ethernet

**WLAN + Bluetooth®**
- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, Intel vPro technology support, M.2 Card
- No WLAN and Bluetooth

**Notes:**
1. This system does not support Power Over Ethernet (PoE). If the system is used in a PoE environment, then a Network Isolator is required to prevent possible damage to the system, PoE equipment, or both.

**Ports**

**Rear Ports**
- 4x USB 3.2 Gen 1 (one supports Smart Power On)
- 1x DisplayPort
- 1x Ethernet (RJ-45)

**Optional Rear Ports**
1x serial

**Right Ports**
- 2x USB 3.2 Gen 2
- 1x USB-C 3.2 Gen 1 (5V/3A charging)
- 1x headphone / microphone combo jack (3.5mm)

**Optional Right Ports**
1x card reader

**Monitor Cable**
- DP to dual DP dongle
- DP to DVI-D dongle
- DP to HDMI® 1.4 dongle
- DP to VGA dongle
- No monitor cable

**SECURITY & PRIVACY**

**Security**

**Security Chip**
Discrete TPM 2.0, TCG certified

**Physical Locks**
Kensington® Security Slot

Chassis Intrusion Switch
• Chassis intrusion switch
• No chassis intrusion switch

Fingerprint Reader
• Touch style fingerprint reader on mouse
• No fingerprint reader

Other Security
(Optional) ThinkShutter camera cover

BIOS Security
• Administrator password
• Power-on password
• Hard disk password
• Boot sequence control
• Boot without keyboard and mouse
• Self-healing BIOS
• Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
• Individual USB port disablenent

MANAGEABILITY

System Management
System Management\(^{(1)}\)
• Intel vPro with Intel AMT 14.0
• None

Notes:
1. Require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection

SERVICE

Warranty
Base Warranty
• 1-year depot service
• 1-year limited onsite service
• 3-year limited onsite service
• No base 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%

Altitude
Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
• Storage: -15.2 m (-50 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications
Green Certifications\(^{(1)}\)
• EPEAT™ Silver
• ENERGY STAR® 8.0
• ErP Lot 3
• TCO Certified 8.0
• TCO edge
• RoHS compliant

Notes:
1. Energy Star 8.0 and EPEAT are only available for MT 11CD/11CE, TCO 8.0 and TCO Edge are not for the models with PrivacyGaurd.

Other Certifications

• TÜV Rheinland® Eye Comfort Certification
• TÜV Rheinland Low Blue Light
• (Optional) TÜV Rheinland Ultra Low Noise

Mil-Spec Test
MIL-STD-810H military test passed (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)