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

Graphics

Graphics[1]

<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 610</td>
<td>Integrated</td>
<td>Shared</td>
<td>1x DP</td>
<td>4096x2304@60Hz(DP)</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>Intel UHD graphics 630</td>
<td>Integrated</td>
<td>Shared</td>
<td>1x DP</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</td>
<td>4096x2304@60Hz(DP)</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:

1. Integrated graphics information and onboard video ports information are not applicable for all 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
Memory Type
- DDR4-2666
- DDR4-2933
Memory Slots
Two DDR4 DIMM slots, dual-channel capable
Memory Protection
Non-ECC
Max Memory
Up to 64GB DDR4-2933

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 2242/2280 SSD
• 2.5" HDD up to 2TB each
• M.2 SSD up to 1TB
• Optional Intel Optane™ Memory, M.2
RAID
RAID 0/1 support for HDDs

<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>7.2K</td>
<td>-</td>
</tr>
<tr>
<td>2.5&quot; SATA HDD</td>
<td>SATA 6Gb/s</td>
<td>5.4K</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>Intel Optane Memory M10</td>
<td>PCIe NVMe, PCIe 3.0 x2</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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
Speakers
Stereo speakers, 3W x2
Microphone
Dual array microphone
Camera
- 1080p, with ThinkShutter (physical switch on/off)
ThinkCentre M90a

- 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 Adapter</td>
</tr>
<tr>
<td>170W Adapter</td>
</tr>
</tbody>
</table>

**DESIGN**

**Display**

<table>
<thead>
<tr>
<th>Display[1]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
</tr>
<tr>
<td>23.8&quot;</td>
</tr>
<tr>
<td>23.8&quot;</td>
</tr>
<tr>
<td>23.8&quot;</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 Wireless Mouse (2.4GHz via USB receiver), black
- Lenovo Calliope Mouse (USB connector), black
- Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
- No mouse

**Mechanical**

**Buttons**

- Power button
- PrivacyGuard on/off button (only for the models with PrivacyGuard)
- Microphone mute button

**Form Factor**

AIO (23.8 inches)

**Dimensions (WxDxH)**
### Models and Dimensions

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models (with full function monitor stand, without ODD, with PrivacyGuard, with camera)</td>
<td>541 x 200 x 414.2 to 494.2 mm (21.3 x 7.9 x 16.3 to 19.5 inches)</td>
</tr>
<tr>
<td>Models (without stand, with ODD, without PrivacyGuard, with camera)</td>
<td>541 x 57.8 x 340.5 mm (21.3 x 2.3 x 13.4 inches)</td>
</tr>
<tr>
<td>Models (without stand, without ODD, without PrivacyGuard, with camera)</td>
<td>541 x 46 x 340.5 mm (21.3 x 1.8 x 13.4 inches)</td>
</tr>
<tr>
<td>Models (without stand, with ODD, with PrivacyGuard, with camera)</td>
<td>541 x 61.3 x 340.5 mm (21.3” x 2.4” x 13.4 inches)</td>
</tr>
<tr>
<td>Models (with full function monitor stand, without ODD, without PrivacyGuard, with camera)</td>
<td>541 x 200 x 414.2 to 494.2 mm (21.3 x 7.9 x 16.3 to 19.5 inches)</td>
</tr>
<tr>
<td>Models (with full function monitor stand, with ODD, without PrivacyGuard, with camera)</td>
<td>541 x 200 x 414.2 to 494.2 mm (21.3 x 7.9 x 16.3 to 19.5 inches)</td>
</tr>
<tr>
<td>Models (with full function monitor stand, with ODD, with PrivacyGuard, with camera)</td>
<td>541 x 200 x 414.2 to 494.2 mm (21.3 x 7.9 x 16.3 to 19.5 inches)</td>
</tr>
<tr>
<td>Models (without stand, without ODD, without PrivacyGuard, with camera)</td>
<td>541 x 49.5 x 340.5 mm (21.3 x 1.9 x 13.4 inches)</td>
</tr>
<tr>
<td>Models (with UltraFlex IV stand, with ODD, without PrivacyGuard, with camera)</td>
<td>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)</td>
</tr>
<tr>
<td>Models (with UltraFlex IV stand, without ODD, without PrivacyGuard, with camera)</td>
<td>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)</td>
</tr>
</tbody>
</table>

### Weight

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

### Case Color
- Black

### Bays
- 1x slim ODD bay
- 2x 2.5" disk bay (2nd 2.5" HDD occupies 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™
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, Intel vPro technology support, M.2 Card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- No WLAN and Bluetooth

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

Notes:
1. For video ports on discrete graphics, please see graphics section

Monitor Cable
Monitor Cable
- DP to VGA dongle
- DP to dual DP dongle
- DP to DVI-D dongle
- DP to HDMI® 1.4 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
- ThinkShutter camera cover
- None
BIOS Security

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

MANAGEABILITY

System Management

- 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

CERTIFICATIONS

Green Certifications

- 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 PrivacyGuard.

Other Certifications

- TÜV Low Blue Light certified
- TÜV Eye comfort certified
- (Optional) TÜV Ultra Low Noise certified

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)