## OVERVIEW

<table>
<thead>
<tr>
<th>Port Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Optical drive *</td>
<td>Ports with * are only available on selected models</td>
</tr>
<tr>
<td>2. Power button</td>
<td></td>
</tr>
<tr>
<td>3. Card reader *</td>
<td></td>
</tr>
<tr>
<td>4. Microphone (3.5mm)</td>
<td></td>
</tr>
<tr>
<td>5. Headphone / microphone combo jack (3.5mm)</td>
<td></td>
</tr>
<tr>
<td>6. USB-C 3.2 Gen 1</td>
<td></td>
</tr>
<tr>
<td>7. 2x USB 3.2 Gen 1</td>
<td></td>
</tr>
<tr>
<td>8. 2x USB 3.2 Gen 2</td>
<td></td>
</tr>
<tr>
<td>9. Line-out (3.5mm)</td>
<td></td>
</tr>
<tr>
<td>10. Serial</td>
<td></td>
</tr>
<tr>
<td>11. 2x DisplayPort</td>
<td></td>
</tr>
<tr>
<td>12. 2x PS/2 ports (keyboard / mouse) *</td>
<td></td>
</tr>
<tr>
<td>13. Optional Video Port (HDMI / DP / USB-C) *</td>
<td></td>
</tr>
<tr>
<td>14. Ethernet (RJ-45)</td>
<td></td>
</tr>
<tr>
<td>15. 2x USB 3.2 Gen 1</td>
<td></td>
</tr>
<tr>
<td>16. 2x USB 3.2 Gen 1</td>
<td></td>
</tr>
<tr>
<td>17. Power connector</td>
<td></td>
</tr>
<tr>
<td>18. Serial *</td>
<td></td>
</tr>
<tr>
<td>19. Optional ports on expansion cards *</td>
<td></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>
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<tr>
<td>Celeron G5905</td>
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<tr>
<td>Pentium Gold G6400</td>
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<td>4.0GHz</td>
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<td>Intel UHD Graphics 610</td>
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<tr>
<td>Pentium Gold G6500</td>
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<tr>
<td>Core i3-10100</td>
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<td>4.3GHz</td>
<td>6MB</td>
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<td>Intel UHD Graphics 630</td>
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<tr>
<td>Core i3-10300</td>
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<td>Intel UHD Graphics 630</td>
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<td>Core i3-10320</td>
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<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i5-10400</td>
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<td>12</td>
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<td>4.3GHz</td>
<td>12MB</td>
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<tr>
<td>Core i5-10400F</td>
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<td>Core i5-10500</td>
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<td>Intel UHD Graphics 630</td>
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<tr>
<td>Core i5-10600</td>
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<td>DDR4-2666</td>
<td>Intel UHD Graphics 630</td>
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<tr>
<td>Core i7-10700</td>
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<td>Intel UHD Graphics 630</td>
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<tr>
<td>Core i7-10700F</td>
<td>8</td>
<td>16</td>
<td>2.9GHz</td>
<td>4.8GHz</td>
<td>16MB</td>
<td>DDR4-2933</td>
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<tr>
<td>Core i9-10900</td>
<td>10</td>
<td>20</td>
<td>2.8GHz</td>
<td>5.2GHz</td>
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<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
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<tr>
<td>Core i9-10900F</td>
<td>10</td>
<td>20</td>
<td>2.8GHz</td>
<td>5.2GHz</td>
<td>20MB</td>
<td>DDR4-2933</td>
<td>-</td>
</tr>
</tbody>
</table>

Operating System

Operating System
- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 11 DG Windows 10 Pro 64
- 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 610</td>
<td>Integrated</td>
<td>Shared</td>
<td>2x DP, 1x optional video port (HDMI*, 3rd DP / USB-C)</td>
<td>4096x2160@24Hz(onboard HDMI), 4096x2304@60Hz(DP), 4096x2304@60Hz(USB-C)</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>Intel UHD graphics 630</td>
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<td>DirectX 12</td>
</tr>
<tr>
<td>AMD Radeon™ 520</td>
<td>Discrete</td>
<td>2GB GDDR5</td>
<td>2x DP 1.2</td>
<td>4096x2160@60Hz(DP)</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>AMD Radeon RX 550X</td>
<td>Discrete</td>
<td>4GB GDDR5</td>
<td>1x HDMI 2.0, 1x VGA, 1x DP 1.4</td>
<td>4096x2160@60Hz(HDMI), 2048x1536@85Hz(VGA),</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>
**Monitor Support**

**Monitor Support**

Supports up to 3 independent displays via onboard ports (2x DisplayPort™ and 1x optional port [HDMI / 3rd DP / USB-C]), more displays support via discrete graphics.

**Notes:**

1. Onboard video ports are only available for the models with integrated graphics.

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**Chipset**

**Chipset**

Intel Q470 chipset

---

**Memory**

**Max Memory**

Up to 128GB DDR4-2933

**Memory Slots**

Four DDR4 DIMM slots, dual-channel capable

**Memory Type**

- DDR4-2666
- 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 five drives, 2x 2.5”/3.5” HDD + 1x 2.5” HDD + 2x M.2 SSD

- 2.5” HDD up to 1TB each
- 3.5” HDD up to 2TB each
- M.2 SSD up to 2TB each
- 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” SATA HDD</td>
<td>SATA 6Gb/s</td>
<td>7.2K</td>
<td>-</td>
</tr>
<tr>
<td>3.5” 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>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 (RAID preset only available via special bid model)

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 (SD, SDHC, SDXC)
- No card reader

Multi-Media

Audio Chip
High Definition (HD) Audio, Realtek® ALC623-CG codec

Speakers
Single speaker, 2W x1

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>85%</td>
<td>-</td>
</tr>
<tr>
<td>300W</td>
<td>Fixed</td>
<td>85%</td>
<td>100-240V, 50-60Hz</td>
</tr>
<tr>
<td>300W</td>
<td>Fixed</td>
<td>90%</td>
<td>100-240V, 50-60Hz</td>
</tr>
<tr>
<td>500W</td>
<td>Fixed</td>
<td>92%</td>
<td>100-240V, 50-60Hz</td>
</tr>
</tbody>
</table>

DESIGN

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

Form Factor
Tower (17L)

Dimensions (WxDxH)
170 x 298 x 376 mm (6.7 x 11.7 x 14.8 inches)

Packaging Dimensions (WxDxH)
275 x 395 x 540 mm (10.8 x 15.6 x 21.4 inches)

Weight
6.5 kg (14.3 lbs)

Packaging Weight
9.8 kg (21.6 lbs)

Case Color
Black

Bays
- 1x 2.5” disk bay (bay comes with disk)
- 1x 3.5” disk bay
- 1x 3.5” disk bay (optional, or bay comes with disk)
- 1x slim ODD bay

Expansion Slots
- One PCIe 3.0 x1, full-height (length < 245mm)
- One PCIe 3.0 x4, full-height (length < 245mm)
- One PCIe 3.0 x16, full-height (length < 245mm)
- One dummy slot, only bracket for optional port extension
- Three M.2 slots (one for WLAN, two for SSD)

Others
- (Optional) Dust filter
- Supports Smart Power On

CONNECTIVITY

Network

Onboard Ethernet
Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ-45, supports Wake-on-LAN

Optional Ethernet**
- Gigabit Ethernet, Bitland BN8E88, 1x RJ-45, PCIe x1
- Gigabit Ethernet, Intel Ethernet Server Adapter I350-T4, 4x RJ-45, PCIe x4
- 2.5 Gigabit Ethernet, Realtek RTL8125BGS, 1x RJ-45, PCIe x1
- No optional Ethernet

WLAN + Bluetooth®**
- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, 802.11ax 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

Ports**(1)

Front Ports
- 2x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x USB-C 3.2 Gen 1
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

Optional Front Ports
- 1x card reader
- None

Rear Ports**(2)
- 4x USB 3.2 Gen 1
- 2x DisplayPort
- 1x serial (9-pin)
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

Optional Rear Ports***
- 2x USB 2.0 (via 2-port adapter)
- 2x USB 3.2 Gen 1 (via 2-port USB expansion card, PCIe x1)
- 2x USB-C 3.2 Gen 2 (via 2-port USB-C expansion card, PCIe x4)
- Optional video port (one of HDMI / DisplayPort / USB-C 3.2 Gen 1 with DisplayPort function)
- 1x serial
- 4x serial (via 4-port serial expansion card, PCIe x1)
- 1x parallel
- 2x PS/2
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
   - FireWire 400: 400 Mbit/s
   - FireWire 800: 800 Mbit/s
2. For video ports on discrete graphics, please see graphics section

Monitor Cable

Monitor Cable
- DP to dual DP dongle
- DP to DVI-D dongle
- DP to HDMI 1.4 dongle
- DP to VGA cable (1.5M)
- DP to VGA dongle
- No monitor cable

SECURITY & PRIVACY

Security
- Security Chip
  Discrete TPM 2.0, TCG certified

Physical Locks
- (Optional) E-lock
- (Optional) Smart Cable Clip
- Kensington® Security Slot
- Padlock Loop

Chassis Intrusion Switch
- Chassis intrusion switch
- No chassis intrusion switch

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

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 disablement

MANAGEABILITY

System Management

System Management
- Intel vPro with Intel AMT 14.0
- Non-vPro

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

SERVICE
**Warranty**

**Base Warranty**

- 1-year limited onsite service
- 3-year limited onsite service
- No base warranty

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: -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**

- EPEAT™ Gold
- EPEAT Silver
- ENERGY STAR® 8.0 (only available for MT 11D0/11CY)
- ErP Lot 3
- TCO Certified 8.0
- RoHS compliant

**Other Certifications**

(Optional) TÜV Rheinland® Ultra Low Noise

- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.
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