## OVERVIEW

<table>
<thead>
<tr>
<th>1. 2x USB 2.0</th>
<th>8. USB 3.2 Gen 2</th>
</tr>
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<tr>
<td>2. 2x USB 3.2 Gen 1</td>
<td>9. 2x USB 3.2 Gen 1</td>
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<td>3. Headphone (3.5mm)</td>
<td>10. Ethernet (RJ-45)</td>
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<tr>
<td>4. Power button</td>
<td>11. 6x Audio line-out (3.5mm)</td>
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<td>13. Power connector</td>
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</table>
PERFORMANCE

Processor

Processor Family
10th Generation Intel® Core™ i7 / i9 or 11th Generation Intel Core i7 / i9 Processor

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<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>
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</thead>
<tbody>
<tr>
<td>Core i7-10700K</td>
<td>8</td>
<td>16</td>
<td>3.8GHz</td>
<td>5.1GHz</td>
<td>16MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
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<td>Core i7-10700KF</td>
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<td>3.8GHz</td>
<td>5.1GHz</td>
<td>16MB</td>
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<td>16</td>
<td>3.6GHz</td>
<td>5.0GHz</td>
<td>16MB</td>
<td>DDR4-3200</td>
<td>Intel UHD Graphics 750</td>
</tr>
<tr>
<td>Core i9-10850K</td>
<td>10</td>
<td>20</td>
<td>3.6GHz</td>
<td>5.2GHz</td>
<td>20MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics 630</td>
</tr>
<tr>
<td>Core i9-10900K</td>
<td>10</td>
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</table>

Notes:
1. Intel UHD Graphics 630 in processor is disabled

Operating System

Operating System**

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 10 Pro 64
- Windows 10 Home 64
- 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>AMD Radeon™ RX 6800XT</td>
<td>Discrete</td>
<td>16GB GDDR6</td>
<td>1x HDMI* 2.1, 2x DP 1.4, 1x USB-C* 3.2 Gen2</td>
<td>7680*4320@120Hz(HDMI), 7680x4320@60Hz(DP)</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA® GeForce RTX™ 2060 CD</td>
<td>Discrete</td>
<td>6GB GDDR6</td>
<td>1x HDMI 2.0b, 3x DP 1.4</td>
<td>4096x2160@60Hz(HDMI), 7680x4320@60Hz with DSC(DP)</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 2070 CD</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>1x HDMI 2.0b, 3x DP 1.4</td>
<td>7680x4320@60Hz(DP)</td>
<td>DirectX 12 VR ready</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 2070 SUPER</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>1x HDMI 2.0b, 1x USB-C Gen 2, 3x DP 1.4</td>
<td>7680x4320@60Hz(DP)</td>
<td>DirectX 12 VR ready</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 2080 SUPER</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>1x HDMI 2.0b, 3x DP 1.4</td>
<td>7680x4320@60Hz(DP)</td>
<td>DirectX 12 VR ready</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3060</td>
<td>Discrete</td>
<td>12G GDDR6</td>
<td>3x DP 1.4a, 1x HDMI 2.1</td>
<td>7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP)</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3060 Ti</td>
<td>Discrete</td>
<td>8G GDDR6</td>
<td>3x DP 1.4a, 1x HDMI 2.1</td>
<td>7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP)</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3070</td>
<td>Discrete</td>
<td>8G GDDR6</td>
<td>3x DP 1.4a, 1x HDMI 2.1</td>
<td>7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP)</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3070 Ti</td>
<td>Discrete</td>
<td>8G GDDR6X</td>
<td>3x DP 1.4a, 1x HDMI 2.1</td>
<td>7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP)</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3080</td>
<td>Discrete</td>
<td>10G GDDR6X</td>
<td>3x DP 1.4a, 1x HDMI 2.1</td>
<td>7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP)</td>
<td>DirectX 12</td>
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</table>
**NVIDIA GeForce RTX 3080 Ti**

Discrete 12G GDDR6X

3x DP 1.4a, 1x HDMI 2.1

7680x4320@60Hz (HDMI); 7680x4320@60Hz (DP)

DirectX 12

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**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 4 independent displays via discrete graphics

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**Notes:**
1. Ports may vary by the discrete graphics.

**Chipset**

Chipset

Intel Z490 chipset

**Memory**

Max Memory

Up to 128GB DDR4-2933

**Memory Slots**

Four DDR4 UDIMM slots, dual-channel capable

**Memory Type**

- DDR4-3200
- DDR4-3200, Armor
- DDR4-3600, RGB Armor, XMP

**Memory Protection**

Non-ECC

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**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.
2. Installed memory is actually 3200MHz or 3600MHz, but may run at 2933MHz depending on the memory support capability of processor

**Storage**

Storage Support

Up to six drives, 2x 3.5” HDD + 2x 2.5” HDD + 2x M.2 SSD
- 3.5” HDD up to 2TB
- 2.5” HDD up to 1TB
- M.2 SSD up to 1TB

**Storage Type**

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5” SATA HDD</td>
<td>SATA 6Gb/s</td>
<td>7.2K</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe*, PCIe 3.0 x4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**RAID**

RAID 0/1/5 support

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**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
Lenovo Legion T7 34IMZ5

- 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® ALC892 codec

Speakers
No speakers

Power Supply

<table>
<thead>
<tr>
<th>Power Type</th>
<th>Efficiency</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>550W</td>
<td>Fixed</td>
<td>88%</td>
</tr>
<tr>
<td>650W</td>
<td>Fixed</td>
<td>90%</td>
</tr>
<tr>
<td>850W</td>
<td>Fixed</td>
<td>90%</td>
</tr>
</tbody>
</table>

DESIGN

Input Device

Keyboard**
- Lenovo Calliope Keyboard (USB connector), black
- Lenovo USB Keyboard (USB connector), black
- No keyboard

Mouse**
- Lenovo Calliope Mouse (USB connector), black
- USB Mouse, black

Mechanical

Form Factor
Tower (34L)

Dimensions (WxDxH)
211 x 450 x 483 mm (8.3 x 17.7 x 19 inches)

Packaging Dimensions (WxDxH)
320 x 580 x 625 mm (12.6 x 22.8 x 24.6 inches)

Weight
12.5 kg (27.6 lbs)

Packaging Weight
All models: 17 kg (37.47 lbs)

Case Color
Raven black

Chassis**
- Transparent side cover
- Transparent side cover and inner decorate cover

Bays
- 2x 2.5” disk bay
- 2x 3.5” disk bay

Expansion Slots
- Two PCIe 3.0 x16
- Three PCIe 3.0 x1
- Three M.2 slots (one for WLAN, two for SSD)
Cooling System (Fan & Cooler)***
- (Optional) 1x front system fan, 1x rear system fan for airflow or liquid
- (Optional) 1x front system fan, 1x rear system fan with ARGB
- (Optional) 2x top system fan with ARGB, 3x front system fan with ARGB, 1x rear system fan with ARGB
- (Optional) 150W side flow Air-Cooler or 200W Liquid-Cooler

System Lighting**
- (Optional) Internal ambient lighting
- Legion OY iconic LED

Others
- (Optional) Carry handle

CONNECTIVITY

Network
Onboard Ethernet
- Gigabit Ethernet, 1x RJ-45

WLAN + Bluetooth®[1]
- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

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

Ports[1][2]
Rear Ports
- 4x USB 2.0
- 2x USB 3.2 Gen 1
- 1x USB 3.2 Gen 2
- 1x USB-C 3.2 Gen 2 (support data transfer and 5V@3A charging)
- 1x Ethernet (RJ-45)
- 1x line-in (blue)
- 1x line-out / front output (green)
- 1x microphone in (pink)
- 1x centre and subwoofer combine output (orange)
- 1x side surround output (grey)
- 1x rear surround output (black)
- 1x power connector

Top Ports
- 2x USB 2.0
- 2x USB 3.2 Gen 1
- 1x headphone (3.5mm)
- 1x microphone (3.5mm)

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 chipset

**BIOS Security**
- Administrator password
- Power-on password

**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](https://pcsupport.lenovo.com/warranty)

**ENVIRONMENTAL**

**Operating Environment**

**Temperature**
- 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**

- ENERGY STAR® 8.0 (on some models)
- ErP Lot 3
- RoHS compliant

- 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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