## OVERVIEW

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<table>
<thead>
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<th></th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>2.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>3.</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>4.</td>
<td>USB-C 3.2 Gen 1 (data transfer / DP 1.2 only)</td>
</tr>
<tr>
<td>5.</td>
<td>2x USB 3.2 Gen 1</td>
</tr>
<tr>
<td>6.</td>
<td>HDMI 2.0</td>
</tr>
<tr>
<td>7.</td>
<td>Power connector</td>
</tr>
<tr>
<td>8.</td>
<td>Kensington Security Slot</td>
</tr>
<tr>
<td>9.</td>
<td>Power light</td>
</tr>
<tr>
<td>10.</td>
<td>NOVO button hole</td>
</tr>
<tr>
<td>11.</td>
<td>USB 3.2 Gen 1</td>
</tr>
</tbody>
</table>
PERFORMANCE

Processor
Processor Family
AMD Ryzen™ 5 / 7 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>AMD Ryzen 5 4600H</td>
<td>6</td>
<td>12</td>
<td>3.0GHz</td>
<td>4.0GHz</td>
<td>3MB L2 / 8MB L3</td>
<td>DDR4-3200</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 4800H</td>
<td>8</td>
<td>16</td>
<td>2.9GHz</td>
<td>4.2GHz</td>
<td>4MB L2 / 8MB L3</td>
<td>DDR4-3200</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Operating System
Operating System**
- Windows® 10 Pro 64
- Windows 10 Home 64
- FreeDOS
- No operating system

Graphics
Graphics**

<table>
<thead>
<tr>
<th>Graphics Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA® GeForce® GTX 1660 Ti</td>
<td>Discrete</td>
<td>6GB GDDR6, VR ready, DirectX® 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX™ 2060</td>
<td>Discrete</td>
<td>6GB GDDR6, VR ready, DirectX 12</td>
</tr>
</tbody>
</table>

Monitor Support
Monitor Support
Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via HDMI® (up to 4096x2160@60Hz) or USB-C (up to 3840x2160@60Hz)

Chipset
Chipset
AMD SoC (System on Chip) platform

Memory
Max Memory**(1)
Up to 16GB DDR4-3200 offering

Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type
DDR4-3200

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
- HDD/SSD mode: up to two drives, 1x 2.5” HDD + 1x M.2 SSD
- 2.5” HDD up to 2TB
- M.2 2242 SSD up to 512GB
- M.2 2280 SSD up to 1TB
- Dual SSD mode: up to two drives, 2x M.2 SSD
Storage Slot
- HDD/SSD mode: one 2.5" drive slot + one M.2 slot
- One 2.5" drive slot, supports 2.5" SATA HDD
- One M.2 2280 PCIe Gen 3x4 slot, supports M.2 2242/2280 SSD
- Dual SSD mode: two M.2 slots
- Two M.2 2280 PCIe Gen 3x4 slots, support M.2 PCIe 2242/2280 SSD

<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 3.0x4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 3.0x4</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Removable Storage
- Optical
  None
- Card Reader
  No card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers
Stereo speakers, 2W x2, Dolby® Atmos® for gaming, Harman Speakers

Microphone
Dual array microphone

Camera
720p, with privacy shutter, fixed focus

Battery
- Integrated Li-Polymer 60Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- Integrated Li-Polymer 80Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)

Max Battery Life
- MobileMark® 2018: 4.2 hr (60Wh)
- MobileMark 2018: 5.7 hr (80Wh)

Notes:
1. All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, JEITA 2.0, continuous 1080p video playback (with 150nits brightness and default volume level) or Google Power Load Test (PLT) battery-life benchmark tests. Actual battery life will vary and depends on many factors such as product configuration and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter
- Power Adapter
  230W slim tip (3-pin) AC adapter

DESIGN

Display

Display**[1]
## Key Features

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch 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>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>None IPS</td>
<td>250 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>-</td>
<td>45% NTSC</td>
<td>-</td>
<td>Refresh rate 120Hz, DC dimmer</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>None IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>-</td>
<td>100% sRGB</td>
<td>-</td>
<td>Refresh rate 60Hz, DC dimmer</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>None IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>-</td>
<td>100% sRGB</td>
<td>-</td>
<td>Refresh rate 144Hz, DC dimmer, Dolby Vision™</td>
</tr>
</tbody>
</table>

### Touchscreen
Non-touch

### Notes:
1. California Electronic Waste Recycling Fee
   In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product.
   For more information, go to https://www.calrecycle.ca.gov/Electronics/Consumer

## Input Device

### Keyboard
6-row, multimedia Fn keys, numeric keypad

### Keyboard Backlight
- White backlight
- 4-Zone RGB backlight

### Touchpad
Buttonless Mylar® surface multi-touch touchpad

## Mechanical

### Dimensions (WxDxH)

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>363.06 x 259.61 x 23.57-26.1 mm (14.3 x 10.22 x 0.93-1.03 inches)</td>
</tr>
</tbody>
</table>

### Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>2.46 kg (5.42 lbs)</td>
</tr>
</tbody>
</table>

### Case Color
Phantom black

### Surface Treatment
Painting

### Case Material
PC + ABS (top), PC + ABS (bottom)

### System Lighting
No system lighting

### Notes:
1. The system weight varies depending on configurations

## CONNECTIVITY

### Network

### Onboard Ethernet
Gigabit Ethernet

### WLAN + Bluetooth®
- 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

**Ports**

**Standard Ports**

- 3x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer and DisplayPort™ 1.2)
- 1x HDMI 2.0
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector

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: 40 Gbit/s;
   - FireWire 400: 400 Mbit/s;
   - FireWire 800: 800 Mbit/s

**SECURITY & PRIVACY**

**Security**

**Security Chip**
Firmware TPM 2.0 integrated in chipset

**Physical Locks**
Kensington® Security Slot

**Fingerprint Reader**
No fingerprint reader

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

**Other Security**
Camera privacy shutter

**SERVICE**

**Warranty**

**Base Warranty**

- 1-year depot service
- 1-year depot with 2-year system board service
- 2-year (1-yr battery) depot service

**ENVIRONMENTAL**

**Operating Environment**

**Temperature**

- At altitudes up to 2438 m (8,000 ft)
  - Operating: 5°C to 35°C (41°F to 95°F)
  - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
  - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

**Humidity**
• Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
• Storage: 5% to 95% at wet-bulb temperature 27°C (81°F)

Altitude
Maximum altitude (without pressurization): 3048 m (10,000 ft)

Notes:
1. When you charge the battery, its temperature must be no lower than 10°C (50°F)

ACCESSORIES

Bundled Accessories

Lenovo Legion™ M300 RGB Gaming Mouse (USB connector)
None

CERTIFICATIONS

Green Certifications

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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