# Overview

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</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 Home 64
- Windows 10 Pro 64
- FreeDOS
- No operating system

## Graphics

### Graphics

<table>
<thead>
<tr>
<th>Graphics Type</th>
<th>Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA® GeForce® GTX 1650</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>NVIDIA GeForce GTX 1650 Ti</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>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

### Memory Type
DDR4-3200

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

### Max Memory
Up to 32GB 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 2242/2280 SSD
  - 2.5” HDD up to 2TB
  - M.2 2280 SSD up to 1TB
  - M.2 2242 SSD up to 512GB
- **Dual SSD mode:** up to two drives, 2x M.2 2280 SSD or 2x M.2 2242 SSD
  - M.2 2280 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>2.5” SATA HDD</td>
<td>SATA 6Gb/s</td>
<td>7.2K</td>
<td>-</td>
</tr>
<tr>
<td>2.5” 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 x4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</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-branded

**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: 7.8 hr (60W)
- MobileMark 2018: 9.3 hr (80W)

**Notes:**
1. All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, and/or JEITA 2.0 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**
170W slim tip AC adapter

**DESIGN**

**Display**

<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”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>250 nits</td>
<td>Anti-glare 16:9</td>
<td>-</td>
<td>45% NTSC</td>
<td>-</td>
<td>Refresh rate 120Hz, DC dimmer</td>
<td></td>
</tr>
<tr>
<td>15.6”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>300 nits</td>
<td>Anti-glare 16:9</td>
<td>-</td>
<td>100% sRGB</td>
<td>-</td>
<td>Refresh rate 144Hz, Dolby Vision™, DC dimmer</td>
<td></td>
</tr>
</tbody>
</table>
## Input Device

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

**Keyboard Backlight**
- White LED backlight
- 4-Zone RGB LED backlight

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

## Mechanical

**Dimensions (WxDxH)**
363.06 x 259.61 x 22-24 mm (14.3 x 10.22 x 0.87-0.94 inches)

**Weight**
2.3 kg (5.07 lbs)

**Case Color**
Phantom black

**Surface Treatment**
Painting

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

**System Lighting**
No system lighting

## CONNECTIVITY

**Network**

- **Onboard Ethernet**
  Gigabit Ethernet

- **WLAN + Bluetooth™**
  802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 Card

## Ports

**Standard Ports**
- 1x USB 3.2 Gen 1 (Always On)
- 3x USB 3.2 Gen 1
- 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;

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**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.carecycle.ca.gov/Electronics/Consumer
SECURITY & PRIVACY

Security
Physical Locks
Kensington® Security Slot
Fingerprint Reader
No fingerprint reader
BIOS Security
• Power-on password
• Supervisor 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

ACCESSORIES

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

CERTIFICATIONS

Green Certifications
Green Certifications
• ErP Lot 3
• RoHS compliant