## OVERVIEW

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<th>Description</th>
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<td>1</td>
<td>USB 3.2 Gen 1 (Always On)</td>
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<td>2</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>3</td>
<td>Ethernet (RJ-45)</td>
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<td>4</td>
<td>USB-C 3.2 Gen 1 (data transfer / DP 1.2 only)</td>
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<td>5</td>
<td>2x USB 3.2 Gen 1</td>
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<td>6</td>
<td>HDMI 2.0</td>
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<td>7</td>
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<td>Kensington Security Slot</td>
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<td>Power light</td>
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<td>10</td>
<td>NOVO button hole</td>
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<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</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 (native display and 2 external monitors via HDMI® and USB-C)
- HDMI supports up to 4096x2160@60Hz
- USB-C supports up to 3840x2160@60Hz

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory**
Up to 32GB DDR4-3200

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
  • M.2 2242 SSD up to 512GB
  • M.2 2280 SSD up to 1TB

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

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>5.4K</td>
<td>-</td>
</tr>
<tr>
<td>2.5” 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 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>

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
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
HD 720p, with privacy shutter, fixed focus

Battery
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 (60Wh)
• MobileMark 2018: 9.3 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
• 135W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
• 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
Notes:
1. AC adapter offerings depend on the country.

**DESIGN**

**Display**

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch</th>
<th>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</td>
<td>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</td>
<td>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</td>
<td>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.carecycle.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)**

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

Notes:
1. The system dimensions and weight vary 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

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

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™ 3/4: 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
- 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 (Korea only)
- 2-year (1-yr battery) depot service

Notes:
ENVIRONMENTAL

Operating Environment

Temperature\(^{(1)}\)
- 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

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

CERTIFICATIONS

Green 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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