## OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>2.</td>
<td>Power connector</td>
</tr>
<tr>
<td>3.</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>4.</td>
<td>HDMI 2.0</td>
</tr>
<tr>
<td>5.</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>6.</td>
<td>USB-C 3.2 Gen 1 (data transfer only)</td>
</tr>
<tr>
<td>7.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>8.</td>
<td>NOVO button hole</td>
</tr>
<tr>
<td>9.</td>
<td>Power light</td>
</tr>
</tbody>
</table>
## PERFORMANCE

### Processor

**Processor Family**
10th Generation Intel® Core™ i5 / i7 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>Core i5-10300H</td>
<td>4</td>
<td>8</td>
<td>2.5GHz</td>
<td>4.5GHz</td>
<td>8MB</td>
<td>DDR4-2933</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-10750H</td>
<td>6</td>
<td>12</td>
<td>2.6GHz</td>
<td>5.0GHz</td>
<td>12MB</td>
<td>DDR4-2933</td>
<td>Intel UHD 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 2 independent displays via native display and 1 external monitor; supports external monitor via HDMI® (up to 4096x2160@60Hz)

### Chipset

**Chipset**
Intel HM470 chipset

### Memory

**Max Memory**
Up to 16GB DDR4-2933 offering

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

**Memory Type**
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 two drives, 1x 2.5” HDD + 1x M.2 SSD
- 2.5” HDD up to 1TB
- M.2 2242 SSD up to 512GB
- 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>5.4K</td>
<td>-</td>
</tr>
</tbody>
</table>
M.2 2242 SSD  PCIe NVMe, PCIe 3.0 x4
M.2 2280 SSD  PCIe NVMe, PCIe 3.0 x4

Removable Storage
Optical
None
Card Reader
No card reader

Multi-Media
Audio Chip
High Definition (HD) Audio
Speakers
Stereo speakers, 1.5W x2, Dolby® Audio™
Microphone
Dual array microphone
Camera
720p, with privacy shutter, fixed focus

Battery
Battery
Integrated Li-Polymer 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
Max Battery Life
MobileMark® 2014: 9.7 hr

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
135W slim tip (3-pin) AC adapter

DESIGN
Display
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”</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 60Hz, DC dimmer</td>
</tr>
<tr>
<td>15.6”</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>
</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
Blue LED backlight

Touchpad
Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP)

Mechanical

Dimensions (WxDxH)
359 x 249.6 x 24.9 mm (14.13 x 9.83 x 0.98 inches)

Weight
2.2 kg (4.8 lbs)

Case Color
• Chameleon blue
• Onyx black

Surface Treatment
IMR (in-mold decoration by roller)

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

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
• 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 card

Ports
Standard Ports
• 2x USB 3.2 Gen 1
• 1x USB-C 3.2 Gen 1 (support data transfer only)
• 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
2. Depending on many factors, actual data transfer speed may be lower than theoretical speed

SECURITY & PRIVACY

Security
Security Chip
Firmware TPM 2.0 integrated in chipset

Physical Locks
No physical locks

Fingerprint Reader
No fingerprint reader

BIOS Security
- Supervisor 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
Bundled Accessories
- Lenovo Gaming M100 RGB Mouse (USB connector)
- None

CERTIFICATIONS

Green Certifications
Green Certifications
- ENERGY STAR® 8.0
- ErP Lot 3
- GREENGUARD®
• RoHS compliant