# OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<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>
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<tr>
<td>4.</td>
<td>HDMI 2.0</td>
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<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 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 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

Memory Type
DDR4-2933

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

Max Memory
Up to 16GB DDR4-2933 offering

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 2242/2280 SSD
- 2.5” HDD up to 1TB
- M.2 2280 SSD up to 1TB
- M.2 2242 SSD up to 512GB

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>
### 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 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 120Hz, DC dimmer</td>
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<td>45% NTSC</td>
<td>-</td>
<td>Refresh rate 60Hz, 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.calecycle.ca.gov/Electronics/Consumer
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

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

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[1]
Standard Ports[2]
• 2x USB 3.2 Gen 1
• 1x USB-C 3.2 Gen 1
• 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
Physical Locks
No physical locks

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

**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 Gaming M100 RGB Mouse (USB connector)
- None

**CERTIFICATIONS**

**Green Certifications**

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