## OVERVIEW

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>2</td>
<td>USB-C 3.2 Gen 1 (data transfer / DP 1.4 only)</td>
</tr>
<tr>
<td>3</td>
<td>USB-C 3.2 Gen 2 / Thunderbolt 3</td>
</tr>
<tr>
<td>4</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>5</td>
<td>HDMI 2.0</td>
</tr>
<tr>
<td>6</td>
<td>USB 3.2 Gen 2</td>
</tr>
<tr>
<td>7</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>8</td>
<td>USB 3.2 Gen 2</td>
</tr>
<tr>
<td>9</td>
<td>Power connector</td>
</tr>
<tr>
<td>10</td>
<td>Kensington Security Slot</td>
</tr>
</tbody>
</table>
PERFORMANCE

Processor

Processor Family

10th Generation Intel® Core™ i5 / i7 / i9 Processor

**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>
<tr>
<td>Core i7-10870H</td>
<td>8</td>
<td>16</td>
<td>2.2GHz</td>
<td>5.0GHz</td>
<td>16MB</td>
<td>DDR4-3200</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-10875H</td>
<td>8</td>
<td>16</td>
<td>2.3GHz</td>
<td>5.1GHz</td>
<td>16MB</td>
<td>DDR4-3200</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i9-10980HK</td>
<td>8</td>
<td>16</td>
<td>2.4GHz</td>
<td>5.3GHz</td>
<td>16MB</td>
<td>DDR4-3200</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

<table>
<thead>
<tr>
<th>Graphics</th>
<th>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</td>
<td>VR ready, DirectX® 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX™ 2060</td>
<td>Discrete</td>
<td>6GB GDDR6</td>
<td>VR ready, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 2070 with Max-Q Design</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>VR ready, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 2070 SUPER with Max-Q Design</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>VR ready, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 2080 SUPER with Max-Q Design</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>VR ready, 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 4096x2304@60Hz
- USB-C supports up to 4096x2304@60Hz

Chipset

Chipset

Intel HM470 chipset

Memory

Max Memory

- Up to 32GB DDR4-2933 offering
- Up to 32GB DDR4-3200 offering

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type

- DDR4-2933
- 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.
2. Installed memory is actually 3200MHz but may run at 2933MHz due to processor limitation

**Storage**

**Storage Support**

Up to two drives, 2x M.2 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>M.2 2280 SSD</td>
<td>PCIe® NVMe®, PCIe 3.0 x4</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**RAID**

• RAID 0 support
• No support

**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® ALC3306 codec

**Speakers**

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

**Microphone**

Dual array microphone

**Camera**

HD 720p, with privacy shutter, fixed focus

**Battery**

**Battery**

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

**Max Battery Life**

MobileMark® 2018: 7.3 hr

**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, 100-240V, 50-60Hz

**Notes:**

1. AC adapter offerings depend on the country.

**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&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>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>500 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>-</td>
<td>100% Adobe® RGB</td>
<td>-</td>
<td>Refresh rate 144Hz, Dolby Vision, DisplayHDR™ 400, G-Sync, DC dimmer</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>500 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>-</td>
<td>100% sRGB</td>
<td>-</td>
<td>Refresh rate 240Hz, Dolby Vision, DisplayHDR 400, G-Sync, DC dimmer</td>
</tr>
</tbody>
</table>

#### Color Calibration

X-Rite® Pantone® factory color calibration

#### 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.cairecycle.ca.gov/Electronics/Consumer](https://www.cairecycle.ca.gov/Electronics/Consumer)

### Input Device

**Keyboard**

6-row, spill-resistant, multimedia Fn keys, numeric keypad, CORSAIR iCUE

**Keyboard Backlight**

RGB backlight

**Touchpad**

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 69 x 104 mm (2.72 x 4.09 inches)

### Mechanical

**Dimensions (WxDxH)**

359.34 x 259.04 x 19.9 mm (14.15 x 10.20 x 0.78 inches)

**Weight**

2.25 kg (4.96 lbs)

**Case Color**

Slate grey (top), black (bottom)

**Surface Treatment**

Anodizing sandblasting

**Case Material**

Aluminium (top), aluminium (bottom)

**System Lighting**

"Y" logo RGB lighting on top cover
RGB lighting on power button
"U" strip RGB lighting
RGB lighting on rear thermal vent

---

**Notes:**

1. The system dimensions and weight vary depending on configurations.

### CONNECTIVITY
Network
Onboard Ethernet
Gigabit Ethernet
WLAN + Bluetooth®
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
• 1x USB 3.2 Gen 1 (Always On)
• 2x USB 3.2 Gen 2
• 1x USB-C 3.2 Gen 1 (support data transfer and DisplayPort™ 1.4)
• 1x USB-C 3.2 Gen 2 / Thunderbolt™ 3 (support data transfer and DisplayPort 1.4)
• 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
- 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).

CERTIFICATIONS

Green Certifications
- ErP Lot 3
- RoHS compliant

- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. LENOVO PROVIDES THIS PUBLICATION “AS IS,” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.
- The specifications on this page may not be available in all regions, and may be changed or updated without notice.