PERFORMANCE

Processor
Processor Family
10th Generation Intel® Core™ i5 / i7 / i9 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>DDR4-2933</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
- Windows® 10 Home 64
- Windows 10 Pro 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 6GB GDDR6</td>
<td>VR ready, DirectX® 12</td>
<td></td>
</tr>
<tr>
<td>NVIDIA GeForce RTX™ 2060</td>
<td>Discrete 6GB GDDR6</td>
<td>VR ready, DirectX 12</td>
<td></td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 2070 Max-Q</td>
<td>Discrete 8GB GDDR6</td>
<td>VR ready, DirectX 12</td>
<td></td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 2070 SUPER Max-Q</td>
<td>Discrete 8GB GDDR6</td>
<td>VR ready, DirectX 12</td>
<td></td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 2080 SUPER Max-Q</td>
<td>Discrete 8GB GDDR6</td>
<td>VR ready, DirectX 12</td>
<td></td>
</tr>
</tbody>
</table>

Monitor Support
Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via HDMI® (up to 4096x2304@60Hz) or USB-C (up to 4096x2304@60Hz)

Chipset
Intel HM470 chipset

Memory
Memory Type
- DDR4-2933
- DDR4-3200

Notes:
- Installed memory is actually 3200MHz but may run at 2933MHz due to processor limitation

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

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

Notes:
- 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, 2x M.2 2280 SSD
• M.2 2280 SSD up to 1TB

RAID
RAID 0 support (RAID preset on some models)

Removable Storage
Optical
Not Support
Card Reader
Not Support

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
720p, with privacy shutter, fixed focus

Battery
Battery
Integrated Li-Polymer 80Wh battery, supports Rapid Charge Pro (charge up to 50% in 30 minutes)
Max Battery Life
MobileMark® 2018: 7.3 hr

Notes:
• All battery life claims are approximate maximum and based on results using the MobileMark 2014 and/or MobileMark 2018 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
230W slim tip AC adapter

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” 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™, HDR 400, G-Sync</td>
<td></td>
</tr>
<tr>
<td>15.6” 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</td>
<td></td>
</tr>
<tr>
<td>15.6” 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, HDR 400, G-Sync</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
• 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
**Touchscreen**
Non-touch

**Input Device**

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

**Keyboard Backlight**
RGB LED backlight

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

**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

**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

**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)
- 2x USB 3.2 Gen 2
- 1x USB-C 3.2 Gen 1 (support data and DP 1.4)
- 1x USB-C 3.2 Gen 2 / Thunderbolt™ 3 (support data and DP 1.4)
- 1x HDMI 2.0
- 1x Ethernet (RJ-45)
- 1x headphone / microphone combo jack (3.5mm)
- 1x power connector

**Notes:**
- 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
Kensington® Security Slot

Fingerprint Reader
Not Support

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

CERTIFICATIONS

Green Certifications
• ErP Lot 3
• RoHS