PERFORMANCE

Processor

Processor Family
AMD Ryzen™ 3 / 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 3 PRO 3300U</td>
<td>4</td>
<td>4</td>
<td>2.1GHz</td>
<td>3.5GHz</td>
<td>2MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>AMD Radeon™ Vega 6 Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 3500U</td>
<td>4</td>
<td>8</td>
<td>2.1GHz</td>
<td>3.7GHz</td>
<td>2MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>AMD Radeon Vega 8 Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 3700U</td>
<td>4</td>
<td>8</td>
<td>2.3GHz</td>
<td>4.0GHz</td>
<td>2MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>AMD Radeon Vega 10 Graphics</td>
</tr>
</tbody>
</table>

Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- Linux
- Ubuntu Linux
- 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>AMD Radeon Vega 6 Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>AMD Radeon Vega 8 Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>AMD Radeon Vega 10 Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX 12</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 4096x2160@24Hz), USB-C (up to 4096x2304@60Hz)

Chipset

AMD SoC (System on Chip) platform

Memory

Memory Type
DDR4-2400

Notes:
- Installed memory is actually 2666MHz but run at 2400MHz due to processor limitation

Memory Slots
Memory soldered to systemboard, no slots

Max Memory
- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable

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
One drive, 1x M.2 2280 SSD or 1x M.2 2242 SSD
- M.2 2280 SSD up to 1TB
• M.2 2242 SSD up to 128GB
• Optional Intel® Optane™ Memory integrated with SSD, M.2

### 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 2242 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>SATA 6Gb/s</td>
<td>-</td>
<td>Opal2</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>Opal2</td>
</tr>
</tbody>
</table>

### Removable Storage

**Optical**
None

**Card Reader**
- MicroSD card slot (WiFi model)
- Nano-SIM + microSD card slot (WWAN model)

### Multi-Media

**Audio Chip**
High Definition (HD) Audio, Realtek® ALC3287 codec

**Speakers**
Stereo speakers, 1W x2, Dolby® Audio™ Premium

**Microphone**
- Dual array microphone, far-field
- No microphone

**Camera**
- 720p, with ThinkShutter, fixed focus
- IR & 720p, with ThinkShutter, fixed focus
- No camera

### Battery

**Battery**
Integrated Li-Polymer 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

**Max Battery Life**
MobileMark® 2014: 14.5 hr

**Notes:**
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

- 45W USB-C AC adapter
- 65W USB-C 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>13.3&quot; HD</td>
<td>(1366x768)</td>
<td>None</td>
<td>TN</td>
<td>250 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>300:1</td>
<td>45% NTSC</td>
<td>90°</td>
<td>-</td>
</tr>
<tr>
<td>13.3&quot; FHD</td>
<td>None</td>
<td>IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>72%</td>
<td>170°</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Display</td>
<td>Size</td>
<td>Resolution</td>
<td>Multi-touch</td>
<td>Anti-glare</td>
<td>Aspect Ratio</td>
<td>Brightness</td>
<td>NTSC</td>
<td>Response Time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>------</td>
<td>------------</td>
<td>-------------</td>
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<td>------------</td>
<td>------</td>
<td>---------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot; FHD</td>
<td>1920x1080</td>
<td>Multi-touch IPS 300 nits Anti-glare 16.9 700:1 72% NTSC 170°</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot; FHD</td>
<td>1920x1080</td>
<td>None IPS 400 nits Anti-glare 16.9 1000:1 72% NTSC 178° ThinkPad® Privacy Guard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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
- On-cell touch, supports 10-point touch
- Non-touch

Input Device

Keyboard
- 6-row, spill-resistant, multimedia Fn keys

Keyboard Backlight
- LED backlight
- Not support

UltraNav™
- TrackPoint® pointing device and Mylar® surface multi-touch touchpad

Mechanical

Dimensions (WxDxH)
311.9 x 217.2 x 16.9 mm (12.28 x 8.55 x 0.67 inches)

Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHD Privacy Guard models</td>
<td>1.37 kg (3.01 lbs)</td>
</tr>
<tr>
<td>FHD non-touch models</td>
<td>1.28 kg (2.82 lbs)</td>
</tr>
<tr>
<td>HD / FHD touch models</td>
<td>1.32kg (2.91lbs)</td>
</tr>
</tbody>
</table>

Case Color
- Black

Case Material
- PPS / GF (top), Magnesium-aluminium (bottom)

CONNECTIVITY

Network

Onboard Ethernet
- Gigabit Ethernet, Realtek RTL8111EPV, RJ45 via optional ThinkPad Ethernet Extension Adapter Gen 2

WLAN + Bluetooth™
- Intel Wireless-AC 9260, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

Notes:
- BT5.1 is supported on Windows 10 version 2004 or above (limited to BT5.0 on earlier version)

WWAN
- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card
- Not Support
For non-WWAN model, it means the model is NOT WWAN upgradable

SIM Card
- Gemalto eSIM
- No SIM card

NFC
Not support

Ports

Standard Ports
- 1x USB 3.1 Gen 1 (Always On)
- 1x USB 3.1 Gen 2
- 2x USB-C 3.1 Gen 2 (support data transfer, Power Delivery and DisplayPort™ 1.4)
- 1x HDMI 2.0
- 1x Ethernet extension connector
- 1x headphone / microphone combo jack (3.5mm)
- 1x side docking connector

Notes:
- Depending on many factors, actual data transfer speed may be lower than theoretical speed

Optional Ports
- 1x Smart card reader
- 1x microSD card slot (WLAN model)
- 1x Nano-SIM + microSD card slot (WWAN model)

Monitor Cable
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to DisplayPort Adapter
- Lenovo USB-C to VGA Adapter
- No monitor cable

SECURITY & PRIVACY

Security

Security Chip
- Discrete TPM 2.0, TCG certified
- Firmware TPM 2.0 integrated in chipset
- Disabled (in some regions)

Physical Locks
- Kensington® Security Slot

Smart Card Reader
- Smart card reader
- No smart card reader

Fingerprint Reader
- Touch style fingerprint reader on palm rest, match-on-chip
- No fingerprint reader

BIOS Security
- Power-on password
- Supervisor password
- Hard disk password
- Self-healing BIOS

Other Security
- (Optional) ThinkShutter camera cover
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert

MANAGEABILITY
System Management
DASH

SERVICE

Warranty

Base Warranty
• 1-year depot service
• 1-year limited onsite service
• 1-year depot with 2-year system board service
• 1-year + 2-year depot service
• 1-year + 2-year limited onsite service
• 3-year (1-yr battery) depot service
• 3-year (1-yr battery) limited onsite service
• No base warranty

ACCESSORIES

Bundled Accessories
• ThinkPad Ethernet Extension Adapter Gen 2
• None

CERTIFICATIONS

Green Certifications
• EPEAT™ Gold
• ENERGY STAR® 8.0
• TCO
• RoHS compliant

Other Certifications

MIL-Spec Test
MIL-STD-810G military test passed