OVERVIEW

1. Power connector  
2. HDMI 1.4b  
3. USB 2.0  
4. 2x USB 3.1 Gen 1  
5. Power indicator  
6. NOVO button hole  
7. Headphone / microphone combo jack (3.5mm)  
8. Card reader
PERFORMANCE

Processor

Processor Family
AMD 3000, AMD Athlon™, or AMD Ryzen™ 3 / 5 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 3020e</td>
<td>2</td>
<td>2</td>
<td>1.2GHz</td>
<td>2.6GHz</td>
<td>1MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Athlon Silver</td>
<td>2</td>
<td>2</td>
<td>2.3GHz</td>
<td>3.2GHz</td>
<td>1MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>3050U</td>
<td></td>
<td></td>
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<tr>
<td>AMD Athlon Gold</td>
<td>2</td>
<td>4</td>
<td>2.4GHz</td>
<td>3.3GHz</td>
<td>1MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>3150U</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>AMD Ryzen 3</td>
<td>2</td>
<td>4</td>
<td>2.6GHz</td>
<td>3.5GHz</td>
<td>1MB L2 / 4MB L3</td>
<td>DDR4-2400</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>3250U</td>
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</tr>
<tr>
<td>AMD Ryzen 5</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>
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<tr>
<td>3500U</td>
<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Operating System

Operating System**
- Windows® 10 Pro 64
- Windows 10 Home 64
- FreeDOS

Graphics

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Radeon 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>
</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 3840x2160@30Hz)

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory**(1)
- Up to 8GB (8GB SO-DIMM) DDR4-2400
- Up to 12GB (4GB soldered + 8GB SO-DIMM) DDR4-2400

Memory Slots**(2)
- One DDR4 SO-DIMM slot
- One memory soldered to systemboard, one DDR4 SO-DIMM slot

Memory Type
DDR4-2400

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. A4-3020E model: One DDR4 SO-DIMM slot

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**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 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>
<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>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Removable Storage**

**Optical**
None

**Card Reader**
4-in-1 card reader (SD, SDHC, SDXC, MMC)

**Multi-Media**

**Audio Chip**
High Definition (HD) Audio

**Speakers**
Stereo speakers, 1.5W x2, Dolby® Audio™

**Microphone**
Single microphone

**Camera**
0.3-megapixel, fixed focus

**Battery**

**Battery**
- Integrated Li-Polymer 30Wh battery
- Integrated Li-Polymer 35Wh battery

**Max Battery Life**
- MobileMark® 2014: 5 hr (30Wh)
- MobileMark 2014: 6 hr (35Wh)

**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**
65W round tip (2-pin, wall-mount) AC adapter

**DESIGN**

**Display**

**Display**

<p>| Size | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Key Features |
|------|------------|-------|------|------------|---------|--------------|----------------|-------------|---------------|--------------|--------------|</p>
<table>
<thead>
<tr>
<th>Display</th>
<th>Resolution</th>
<th>Color</th>
<th>Panel Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Color Accuracy</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.6” HD (1366x768)</td>
<td>None</td>
<td>TN</td>
<td>220 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>15.6” FHD (1920x1080)</td>
<td>None</td>
<td>TN</td>
<td>220 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>15.6” FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>250 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>-</td>
<td>-</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.ca-recycle.ca.gov/Electronics/Consumer

**Input Device**

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

**Keyboard Backlight**
No support

**Touchpad**
Buttonless Mylar® surface multi-touch touchpad

**Mechanical**

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>362.2 x 251.5 x 19.9 mm (14.26 x 9.9 x 0.78 inches)</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>1.85 kg (4.08 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
Iron grey

**Surface Treatment**
- IMR (in-mold decoration by roller)
- Texture

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

**Notes:**

1. The system weight varies depending on configurations

**CONNECTIVITY**

**Network**

**Onboard Ethernet**
No Ethernet

**WLAN + Bluetooth®**
802.11ac 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card

**Ports**

**Standard Ports**
- 1x USB 2.0
- 2x USB 3.1 Gen 1
1x HDMI 1.4b
1x Card reader
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

SECURITY & PRIVACY

Security
Security Chip
Firmware TPM 2.0 integrated in chipset

Fingerprint Reader
No fingerprint reader

BIOS Security
• Supervisor password
• Power-on password
• Hard disk password

SERVICE

Warranty
Base Warranty**
• 1-year depot 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)

CERTIFICATIONS

Green Certifications
Green Certifications

- ErP Lot 3
- RoHS compliant

- Feature with ** means that only one offering listed under the feature is configured on selected models.

- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.

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