## OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2x USB-C 3.2 Gen 2</td>
</tr>
<tr>
<td>2</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>3</td>
<td>Card reader</td>
</tr>
<tr>
<td>4</td>
<td>2x USB 3.2 Gen 2 (one Always On)</td>
</tr>
<tr>
<td>5</td>
<td>Power connector</td>
</tr>
</tbody>
</table>
**PERFORMANCE**

**Processor**

**Processor Family**

AMD Ryzen™ 5 / 7 / 9 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 5 5600H</td>
<td>6</td>
<td>12</td>
<td>3.3GHz</td>
<td>4.2GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>DDR4-3200</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 5800H</td>
<td>8</td>
<td>16</td>
<td>3.2GHz</td>
<td>4.4GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>DDR4-3200</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 9 5900HX</td>
<td>8</td>
<td>16</td>
<td>3.3GHz</td>
<td>4.6GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>DDR4-3200</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

**Operating System**

**Operating System**

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 10 Pro 64
- Windows 10 Home 64
- No operating system

**Graphics**

**Graphics**

<table>
<thead>
<tr>
<th>Graphics Type</th>
<th>Memory</th>
<th>Boost Clock</th>
<th>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA® GeForce® RTX™ 3050 Ti Laptop GPU</td>
<td>Discrete 4GB GDDR6</td>
<td>1485 MHz / 1695 MHz</td>
<td>90W</td>
<td>Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, DirectX® 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3060 Laptop GPU</td>
<td>Discrete 6GB GDDR6</td>
<td>1282 MHz / 1425 MHz</td>
<td>100W</td>
<td>Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, 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 USB-C)

- USB-C supports up to 5120x2160@60Hz

**Chipset**

**Chipset**

AMD SoC (System on Chip) platform

**Memory**

**Max Memory**

- Up to 16GB (8GB soldered + 8GB SO-DIMM) DDR4-3200 offering
- Up to 32GB (16GB soldered + 16GB SO-DIMM) DDR4-3200 offering

**Memory Slots**

One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

**Memory Type**

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.

**Storage**
Storage Support
Up to two drives, 2x M.2 SSD
• M.2 2280 SSD up to 2TB

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>

Removable Storage
Optical
None

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

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers
Stereo speakers, 2W x2, Nahimic Audio, Harman Speakers, Smart AMP

Microphone
Dual array microphone

Camera
720p, with camera shutter, fixed focus

Battery
Battery
Integrated Li-Polymer 71Wh battery, supports Rapid Charge Express (get 3 hours of runtime with a 15-minute charge)

Max Battery Life
MobileMark® 2018: 7.8 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**
• 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
• 230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

DESIGN

Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch Type</th>
<th>Brightness</th>
<th>Surface Type</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 IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>170°</td>
<td>Refresh rate 165Hz, Dolby Vision™, Free-Sync, G-Sync, DC dimmer</td>
</tr>
<tr>
<td>15.6”</td>
<td>WQHD (2560x1440)</td>
<td>None IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>178°</td>
<td>Refresh rate 165Hz, Dolby Vision, Free-Sync, G-Sync, DC dimmer</td>
</tr>
</tbody>
</table>
Color Calibration
- X-Rite® Pantone® factory color calibration
- No 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.calrecycle.ca.gov/Electronics/Consumer

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

Keyboard Backlight**
- RGB backlight
- White backlight

Touchpad
Buttonless glass surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical**
Dimensions (WxDxH)
356 x 252 x 15.9-18.9 mm (14.02 x 9.92 x 0.63-0.74 inches)

Weight
1.9 kg (4.19 lbs)

Case Color**
- Shadow black
- Storm grey

Surface Treatment
Anodizing

Case Material
Aluminium (top), aluminium (bottom)

System Lighting**
- "Y" logo with white lighting on top cover
- RGB lighting on power button (Storm Grey model)
- RGB lighting on power button (Shadow Black model)

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

CONNECTIVITY

Network
Onboard Ethernet
No Ethernet

WLAN + Bluetooth®**
- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Killer Wi-Fi 6 AX1650, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card

Ports**

Standard Ports
- 1x USB 3.2 Gen 2
- 1x USB 3.2 Gen 2 (Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 100w and DisplayPort™ 1.4)
- 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™ 3/4: 40 Gbit/s;
   - FireWire 400: 400 Mbit/s;
   - FireWire 800: 800 Mbit/s

Monitor Cable
- Lenovo USB-C 3-in-1 Hub (USB-C to VGA / HDMI® / USB-A)
- No monitor cable

SECURITY & PRIVACY

Security
Security Chip
Firmware TPM 2.0 integrated in chipset

Fingerprint Reader
Touch style fingerprint reader on power button

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

Other Security
Camera privacy shutter

SERVICE

Warranty
Base Warranty**(1)
- 1-year depot service
- 1-year depot with 2-year system board service
- 2-year (1-yr battery) depot service
- 3-year (1-yr battery) depot service

Notes:
1. More information of warranty policy, please access https://pcsupport.lenovo.com/warranty

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

ENERGY STAR® 8.0
ErP Lot 3

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

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