# 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>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>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**

**Memory Slots**
One memory soldered to system board, one DDR4 SO-DIMM slot, dual-channel capable

**Memory Type**
DDR4-3200

**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
Display**[1]

<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”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>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>UHD (3840x2160)</td>
<td>None</td>
<td>IPS</td>
<td>500 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1500:1</td>
<td>100% Adobe® RGB</td>
<td>178°</td>
<td>Refresh rate 60Hz, VESA HDR 400, Dolby Vision, Free-Sync, DC dimmer</td>
</tr>
<tr>
<td>15.6”</td>
<td>WQHD (2560x1440)</td>
<td>None</td>
<td>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)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>356 x 252 x 15.9-18.9 mm (14.02 x 9.92 x 0.63-0.74 inches)</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>1.9 kg (4.19 lbs)</td>
</tr>
</tbody>
</table>

**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 weight varies 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: 40 Gbit/s;
   FireWire 400: 400 Mbit/s;
   FireWire 800: 800 Mbit/s

Monitor Cable

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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