## OVERVIEW

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<table>
<thead>
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<th></th>
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<tbody>
<tr>
<td>1.</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>2.</td>
<td>E-camera shutter switch</td>
</tr>
<tr>
<td>3.</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>4.</td>
<td>Thunderbolt 4</td>
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<tr>
<td>5.</td>
<td>3x USB 3.2 Gen 1 (one Always On)</td>
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<tr>
<td>6.</td>
<td>HDMI 2.1</td>
</tr>
<tr>
<td>7.</td>
<td>Power connector</td>
</tr>
<tr>
<td>8.</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>9.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
</tbody>
</table>
PERFORMANCE

Processor

Processor Family
11th Generation Intel® Core™ i7 Processor

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 i7-11800H</td>
<td>8</td>
<td>16</td>
<td>2.3GHz</td>
<td>4.6GHz</td>
<td>24MB</td>
<td>DDR4-3200</td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**
- Windows® 10 Pro 64
- Windows 10 Home 64
- Windows 11 Pro 64
- Windows 11 Home 64
- No operating system

Graphics

Graphics**

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Boost Clock</th>
<th>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA® GeForce® RTX™ 3060</td>
<td>Discrete</td>
<td>6GB GDDR6</td>
<td>1425 MHz / 1702 MHz</td>
<td>130W</td>
<td>Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, DirectX® 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3070 Laptop GPU</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>1560 MHz / 1620 MHz</td>
<td>140W</td>
<td>Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, DirectX 12</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support
Supports up to 4 independent displays via native display and 3 external monitors; supports external monitors via HDMI® (up to 7680x4320@60Hz) or USB-C (up to 5120x2880@60Hz)

Chipset

Chipset
Intel HM570 chipset

Memory

Max Memory(1)
Up to 32GB DDR4-3200 offering

Memory Slots
Two DDR4 SO-DIMM slots, 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 2242 SSD up to 512GB
- M.2 2280 SSD up to 1TB

Storage Slot
Two M.2 slots
- One M.2 2280 PCIe Gen 3x4 slot, supports M.2 2242/2280 SSD
• One M.2 2280 PCIe Gen 4x4 slot, supports M.2 2242/2280 SSD

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</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>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Removable Storage

Optical
None

Card Reader
No card reader

Multi-Media

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

Speakers
Stereo speakers, 2W x2, Nahimic Audio

Microphone
Dual array microphone

Camera
720p, with E-camera shutter, fixed focus

Battery

Battery
Integrated Li-Polymer 80Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)

Max Battery Life®
MobileMark® 2018: 7.3 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**
• 230W slim tip (3-pin) AC adapter
• 300W slim tip (3-pin) AC adapter

DESIGN

Display

Display[

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch 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>16.0&quot;</td>
<td>WQXGA (2560x1600)</td>
<td>None</td>
<td>IPS</td>
<td>500 nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>178° Refresh rate 165Hz, Dolby® Vision™, DisplayHDR™ 400, G-Sync, DC dimmer</td>
</tr>
</tbody>
</table>

Color Calibration
X-Rite® Pantone® factory 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
- Stingray model: 6-row, multimedia Fn keys, numeric keypad, moon white keycap
- Storm grey model: 6-row, multimedia Fn keys, numeric keypad, black keycap

Keyboard Backlight
- Blue backlight
- White backlight
- 4-Zone RGB backlight

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>356 x 260.2-264.2 x 21.7-26.15 mm (14.02 x 10.24-10.40 x 0.85-1.03 inches)</td>
</tr>
</tbody>
</table>

Weight

<table>
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<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>2.3 kg (5.07 lbs)</td>
</tr>
</tbody>
</table>

Case Color
- Stingray (top), dove grey (bottom)
- Storm grey (top), black (bottom)

Surface Treatment
- Anodize electrophoresis deposition
- Anodizing

Case Material
Aluminium (top), aluminium (bottom)

System Lighting
- “Y” logo with blue lighting on top cover (Stingray model)
- “Y” logo with white lighting on top cover (Storm Grey model)

Notes:
1. The system weight varies depending on configurations

CONNECTIVITY

Network

Onboard Ethernet
Gigabit Ethernet, Realtek RTL8111H

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

Ports
Standard Ports
- 3x USB 3.2 Gen 1
1x USB 3.2 Gen 1 (Always On)
• 1x Thunderbolt™ 4 / USB4™ 40Gbps (support data transfer and DisplayPort™ 1.4)
• 1x Thunderbolt 4 / USB4 40Gbps (support data transfer, Power Delivery and DisplayPort 1.4)
• 1x HDMI 2.1
• 1x Ethernet (RJ-45)
• 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

Other Security
E-Camera 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
• 3-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
- ErP Lot 3
- RoHS compliant

Other Certifications
- TÜV Rheinland® Low Blue Light (Hardware Solution)

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