OVERVIEW

1. Card slot
2. Smart card reader *
3. USB 3.2 Gen 1 (Always On)
4. Kensington Security Slot
5. USB-C 3.2 Gen 2
6. USB-C 3.2 Gen 2
7. Ethernet extension connector (mini RJ-45)
8. USB 3.2 Gen 1
9. HDMI 2.0
10. Headphone / microphone combo jack (3.5mm)

Notes:
- Ports with * are only available on selected models
- Card slot is for microSD card (WLAN model) or nano-SIM + microSD card (WWAN model)
- The combination of 6 and 7 is side docking connector
PERFORMANCE

Processor
Processor Family
AMD Ryzen™ 3 / 5 / 7 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>AMD Ryzen 3 PRO 4450U</td>
<td>4</td>
<td>8</td>
<td>2.5GHz</td>
<td>3.7GHz</td>
<td>2MB L2 / 4MB L3</td>
<td>DDR4-3200</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 4650U</td>
<td>6</td>
<td>12</td>
<td>2.1GHz</td>
<td>4.0GHz</td>
<td>3MB L2 / 8MB L3</td>
<td>DDR4-3200</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 4750U</td>
<td>8</td>
<td>16</td>
<td>1.7GHz</td>
<td>4.1GHz</td>
<td>4MB L2 / 8MB 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 11 Home 64 Single Language
- Windows 11 DG Windows 10 Pro 64
- Windows 10 Pro 64
- Windows 10 Home 64
- Windows 10 Home 64 Single Language
- Linux
- Ubuntu Linux
- No operating system

Graphics

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>
</tbody>
</table>

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB-C®)
- HDMI supports up to 4K@60Hz
- USB-C supports up to 5K@60Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory**

- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

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**

One drive, up to 512GB M.2 2242 SSD or 1TB M.2 2280 SSD

<table>
<thead>
<tr>
<th>Storage 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>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>Opal2</td>
</tr>
</tbody>
</table>

Notes:
1. The storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

**Removable Storage**

**Optical**

None

**Card Reader**

- MicroSD card slot (WLAN models)
- Nano-SIM + microSD card slot (WWAN models)

**Multi-Media**

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3287 codec

**Speakers**

Stereo speakers, 1W x2, Dolby® Audio™

**Microphone**

- Dual array microphone, far-field
- No microphone

**Camera**

- HD 720p, with ThinkShutter, fixed focus
- IR & HD 720p hybrid, 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: 12.8 hr
MobileMark 2018: 10.35 hr
JEITA 2.0: 13.9 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**

- 45W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 45W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C slim (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
• 65W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
• No power adapter

Notes:
1. AC adapter offerings depend on the country.
2. No power adapter is for special bid only.

**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>13.3&quot; HD (1366x768)</td>
<td>None 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>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot; FHD (1920x1080)</td>
<td>None IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>72% NTSC</td>
<td>170°</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot; FHD (1920x1080)</td>
<td>None IPS</td>
<td>500 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>72% NTSC</td>
<td>170°</td>
<td>ThinkPad® Privacy Guard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot; FHD (1920x1080)</td>
<td>Multi-touch IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>700:1</td>
<td>72% NTSC</td>
<td>170°</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Touchscreen**

• On-cell touch, supports 10-point touch
• 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 with Unified Communications controls

**Keyboard Backlight**

• LED backlight
• Non-backlight

**UltraNav™**

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

**Mechanical**[3]

**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 touch models</td>
<td>Starting at 1.28 kg (2.84 lbs)</td>
</tr>
<tr>
<td>HD / FHD non-touch / FHD Privacy Guard models</td>
<td>Starting at 1.29 kg (2.85 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**

Black

**Case Material**

PPS / GF (top), magnesium-aluminium (keyboard cover & bottom)

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

Network
Ethernet
Gigabit Ethernet, Realtek RTL8111EPV, mini RJ-45 to RJ-45 via optional ThinkPad Ethernet Extension Adapter Gen 2, supports Wake-on-LAN

WLAN + Bluetooth®
- Intel® Wi-Fi® 6 AX200, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Mediatek Wi-Fi 6 MT7921, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Realtek Wi-Fi 6 RTL8852AE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L850-GL, 4G LTE CAT9, M.2 card
- No support

SIM Card
- Gemalto eSIM card (physical)
- No SIM card inbox

NFC
No support

Notes:
1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation
2. Wi-Fi 6 full features might be limited by country-level restrictions.
3. For non-WWAN model, it means the model is NOT WWAN upgradable.

Ports[1]
Standard Ports
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery and DisplayPort™ 1.4)
- 1x HDMI 2.0
- 1x Ethernet extension connector (mini RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Side docking connector

Optional Ports***
- 1x Smart card reader
- 1x Nano-SIM & microSD card slot (WWAN support models)
- 1x microSD card slot (WLAN models)

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

Docking
Docking
Various docking solutions supported via side docking connector or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad X13 Gen 1 (AMD)

Monitor Cable
Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
SECURITY & PRIVACY

Security
Security Chip
Discrete TPM 2.0, TCG certified

Physical Locks
Kensington® Security Slot™, 3 x 7 mm

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

SERVICE

Warranty
Base Warranty**(1)
• 1-year courier or carry-in service
• 1-year courier or carry-in with 2-year system board service (Korea only)
• 1-year limited onsite service
• 3-year (1-yr battery) courier or carry-in service
• 3-year (1-yr battery) limited onsite service
• No base warranty

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

ENVIRONMENTAL

Operating Environment
Temperature(1)
• Operating: 5°C (41°F) to 35°C (95°F)
• Storage and transportation in original shipping package: -20°C (-4°F) to 60°C (140°F)
• Storage without package: 5°C (41°F) to 43°C (109°F)

Humidity
Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
Storage and transportation: 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).

ACCESSORIES

Bundled Accessories

Bundled Accessories

• ThinkPad Ethernet Extension Adapter Gen 2
• None

CERTIFICATIONS

Green Certifications

Green Certifications

• EPEAT™ Gold
• ENERGY STAR® 8.0
• TCO Certified
• RoHS compliant

Other Certifications

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

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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