### OVERVIEW

1. Smart card reader *
2. USB 3.2 Gen 1
3. Kensington Nano Security Slot
4. USB4
5. USB-C 3.2 Gen 2
6. HDMI
7. USB 3.2 Gen 1 (Always On)
8. Headphone / microphone combo jack (3.5mm)
9. Nano-SIM card slot *

**Notes:**
- Items with * are only available on selected models
PERFORMANCE

Processor
Processor Family
AMD Ryzen™ 5 / 7 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>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Ryzen™ 5 PRO 6650U</td>
<td>6</td>
<td>12</td>
<td>2.9GHz</td>
<td>4.5GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon™ 660M</td>
</tr>
<tr>
<td>AMD Ryzen™ 7 PRO 6850U</td>
<td>8</td>
<td>16</td>
<td>2.7GHz</td>
<td>4.7GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon™ 680M</td>
</tr>
</tbody>
</table>

Operating System

Operating System**
- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 11 DG Windows® 10 Pro 64
- Windows® 10 IoT Enterprise LTSC 2021[^1]
- Ubuntu Linux[^2]
- Linux[^3]
- No preload operating system

Notes:
[^1] Windows® 10 IoT Enterprise LTSC 2021 is for special bid only.
[^2],[^3] Some features may not be supported on the system with Linux preload, including but not limited to Intel® RST RAID, MIPI computer vision camera, WWAN, Human Presence Detection, etc.

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™ 660M</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>AMD Radeon™ 680M</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 4K@60Hz (4 displays output), 5K@60Hz (3 displays output) or 5K@120Hz (up to 2 displays output)

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
LPDDR5-6400

Storage

Storage Support[^8]
One drive, up to 2TB M.2 2280 SSD

Storage Slot
One M.2 2280 PCIe® 4.0 x4 slot

Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe® NVMe®, PCIe® 4.0 x4</td>
<td>256GB / 512GB / 1TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe® NVMe®, PCIe® 4.0 x4 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
</tbody>
</table>

Notes:
[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.

Removable Storage
Card Reader
No card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers
Stereo speakers, 2W x2, Dolby Audio™

Microphone
- Dual-microphone array, 360° far-field, Dolby Voice®
- No microphone

Camera
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus
- No camera

Battery

Battery
- Integrated Li-Polymer 41Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 54.7Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

Battery Life
[1] Configuration 1 (max battery life)
MobileMark® 2018: up to 15.68 hr with 868 performance score @200nits
MobileMark® 25: up to 13.7 hr with 531 performance score @250nits
JEITA 2.0: up to 20.28 hr @150nits
Local video playback: up to 17.3 hr @150nits

Alternate configuration 2
MobileMark® 2018: up to 15.67 hr with 724 performance score @200nits
MobileMark® 25: up to 14.47 hr with 669 performance score @250nits
JEITA 2.0: up to 21.58 hr @150nits
Local video playback: up to 18 hr @150nits

Alternate configuration 3
MobileMark® 2018: up to 10.8 hr with 702 performance score @200nits
MobileMark® 25: up to 9.36 hr with 542 performance score @250nits
JEITA 2.0: up to 13.66 hr @150nits
Local video playback: up to 12.3 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WQXGA (non-touch), AMD Ryzen™ 7 PRO 6850U, 16GB LPDDR5, Win 10, 54.7Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), AMD Ryzen™ 5 PRO 6650U, 16GB LPDDR5, Win 10, 54.7Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA 300nits (non-touch), AMD Ryzen™ 5 PRO 6650U, 32GB LPDDR5, Win 10, 41Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using MobileMark® 2018, MobileMark® 25, JEITA 2.0, continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level), or Google Power Load Test (PLT) battery-life benchmark tests. Actual battery life will vary depending on many factors such as product configuration, software, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time, ambient temperature and use. Refer to Microsoft® link for more information about the Windows® Performance power slider.

Power Adapter

Power Adapter**[1]
- 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[2]

Notes:
[2] No power adapter is for special bid only.

DESIGN

Display

<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 (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>72% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>72% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>72% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WQXGA (2560x1600)</td>
<td>None</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Dolby Vision®, TÜV Low Blue Light (Hardware Solution)</td>
</tr>
</tbody>
</table>

Touchscreen
- On-cell multi-touch, supports 10-point touch
- Non-touch

Notes:
[1] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

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 glass-like Mylar® surface multi-touch touchpad, 61 x 115 mm (2.40 x 4.53 inches)

### Mechanical

#### Dimensions (WxDxH)

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with PPS top cover</td>
<td>305.8 x 217.56 x 18.10 mm (12.04 x 8.57 x 0.71 inches)</td>
</tr>
<tr>
<td>Models with CF /GF hybrid top cover</td>
<td>305.8 x 217.89 x 18.25 mm (12.04 x 8.58 x 0.72 inches)</td>
</tr>
<tr>
<td>Models with aluminium top cover</td>
<td>305.8 x 218.39 x 18.10 mm (12.04 x 8.60 x 0.71 inches)</td>
</tr>
</tbody>
</table>

#### Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with WUXGA display, 41Wh battery, and black carbon fiber top cover</td>
<td>Starting at 1.19 kg (2.62 lbs)</td>
</tr>
<tr>
<td>Models with WUXGA display, 41Wh battery, and black PPS top cover</td>
<td>Starting at 1.25 kg (2.77 lbs)</td>
</tr>
<tr>
<td>Models with WUXGA display, 54.7Wh battery, and black carbon fiber top cover</td>
<td>Starting at 1.26 kg (2.77 lbs)</td>
</tr>
<tr>
<td>Models with WUXGA display, 54.7Wh battery, and black PPS top cover</td>
<td>Starting at 1.31 kg (2.88 lbs)</td>
</tr>
<tr>
<td>Models with WUXGA display, 41Wh battery, and storm grey top cover</td>
<td>Starting at 1.33 kg (2.93 lbs)</td>
</tr>
<tr>
<td>Models with WUXGA display, 54.7Wh battery, and storm grey top cover</td>
<td>Starting at 1.38 kg (3.04 lbs)</td>
</tr>
<tr>
<td>Models with WQXGA display, 41Wh battery, and black PPS top cover</td>
<td>Starting at 1.21 kg (2.67 lbs)</td>
</tr>
<tr>
<td>Models with WQXGA display, 54.7Wh battery, and black PPS top cover</td>
<td>Starting at 1.26 kg (2.78 lbs)</td>
</tr>
<tr>
<td>Models with WQXGA display, 41Wh battery, and storm grey top cover</td>
<td>Starting at 1.28 kg (2.82 lbs)</td>
</tr>
<tr>
<td>Models with WQXGA display, 54.7Wh battery, and storm grey top cover</td>
<td>Starting at 1.34 kg (2.94 lbs)</td>
</tr>
</tbody>
</table>

#### Case Color
- Storm grey
- Thunder black

#### Case Material
- Storm grey models: aluminium (top), aluminium (bottom)
- Thunder black models: carbon fiber hybrid or PPS (top), aluminium (bottom)

---

Notes:

[1] The system dimensions may vary depending on configurations.
[2] The system weight is approximate and based on results in Lenovo® lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

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### CONNECTIVITY

#### Network

**Ethernet**
- No onboard Ethernet

**WLAN + Bluetooth®**
- MediaTek Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1 (Bluetooth® 5.2 hardware ready)
- Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1 (Bluetooth® 5.2 hardware ready)

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
  - Quectel EM05-G, 4G LTE CAT4, M.2 card
  - Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
  - Fibocom FM350-GL, 5G Sub-6 GHz, M.2 Card, with embedded eSIM functionality
- No support

**SIM Card**
- Gemalto eSIM card (physical)
- No physical SIM card inbox
NFC
• Near Field Communication
• No support

Notes:
[1] Ethernet support via optional Lenovo® USB-C® to Ethernet Adapter.
[2] Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.
[3] [4] Wi-Fi® 6E full features might be limited by country-level restrictions. Wi-Fi® 6E is only enabled on Windows® 11 and operates as Wi-Fi® 6 with Windows® 10. 6GHz Wi-Fi® 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi® 6E, and the regional regulatory certifications & spectrum allocation.

Ports

Standard Ports
• 1x USB 3.2 Gen 1
• 1x USB 3.2 Gen 1 (Always On)
• 1x USB-C® 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
• 1x USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
• 1x HDMI® 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)

Optional Ports
• 1x Smart card reader
• 1x Nano-SIM card slot (WWAN support 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;
USB4® 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
USB4® 40Gbps (USB 40Gbps): 40 Gbit/s;
Thunderbolt™ 3/4: 40 Gbit/s.

Docking

Various docking solutions supported via USB-C®.
For more compatible docking solutions, please visit Docking for ThinkPad® X13 Gen 3 (AMD)

SECURITY & PRIVACY

Security

Security Chip
Discrete TPM 2.0 (TCG certified, FIPS 140-2 certified) and Microsoft® Pluton TPM 2.0, one enabled at one time

Physical Locks
Kensington® Nano Security Slot™, 2.5 x 6 mm

Smart Card Reader
• Smart card reader, supports ISO 7816 and EMV
• No smart card reader

Fingerprint Reader
• Touch style fingerprint reader integrated in power button, match-on-chip
• No fingerprint reader

BIOS Security
• Certificate based BIOS authentication
• FIDO (Fast Identity Online) authentication
• NVMe® password
• Power-on password
• Supervisor password
• System management password

Other Security
• (Optional) IR camera for Windows® Hello (facial recognition)
• Glance by Mirametrix®
• (Optional) Human Presence Detection
• Camera privacy shutter (camera models)

MANAGEABILITY

System Management

SERVICE

Warranty

Base Warranty**
• 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

ACCESSORIES

Bundled Accessories

Bundled Accessories***[1]
• Lenovo® HDMI® to VGA Monitor Adapter
• Lenovo® USB-C® to DisplayPort™ Adapter
• Lenovo® USB-C® to Ethernet Adapter (1Gbps)
• Lenovo® USB-C® to VGA Adapter
• None

Notes:
[1] For more compatible accessory solutions, please visit Accessories for ThinkPad® X13 Gen 3 (AMD).

OPERATING REQUIREMENTS

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)

Relative 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:
When you charge the battery, its temperature must be no lower than 10°C (50°F).

**ENVIRONMENTAL**

**Sustainability**

**Material**
- 97% PCC recycled plastic used in speaker enclosure
- 25% PCC recycled plastic used in the 54.7Wh battery frame
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

**CERTIFICATIONS**

**Green Certifications**

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered
- ErP Lot 3
- RoHS compliant
- TCO Certified 9.0

Notes:

[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration. For ESG & regulatory compliance documents, please visit [https://compliance.lenovo.com](https://compliance.lenovo.com).

[2] EPEAT™ registration and ENERGY STAR® certification are dependent on system OS. Please visit [epeat.net](http://epeat.net) and [energystar.gov](http://energystar.gov) for more information.

[3] EPEAT™ is registered where applicable, please visit [epeat.net](http://epeat.net) for registration status by country.

**Other Certifications**

**Mil-Spec Test**
- MIL-STD-810H military test passed

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

- 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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