## OVERVIEW

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

**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 7540U</td>
<td>6</td>
<td>12</td>
<td>3.2GHz</td>
<td>4.9GHz</td>
<td>6MB L2 / 16MB L3</td>
<td>AMD Radeon™ 740M</td>
</tr>
<tr>
<td>AMD Ryzen™ 5 PRO 7545U</td>
<td>6</td>
<td>12</td>
<td>3.2GHz</td>
<td>4.9GHz</td>
<td>6MB L2 / 16MB L3</td>
<td>AMD Radeon™ 740M</td>
</tr>
<tr>
<td>AMD Ryzen™ 7 PRO 7840U</td>
<td>8</td>
<td>16</td>
<td>3.3GHz</td>
<td>5.1GHz</td>
<td>8MB L2 / 16MB L3</td>
<td>AMD Radeon™ 780M</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

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Radeon™ 740M</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>AMD Radeon™ 780M</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support[^4]
Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB4*)
- HDMI® supports up to 4K@60Hz
- USB4* supports up to 4K@60Hz (4 displays output), 5K@60Hz (3 displays output) or 5K@120Hz (up to 2 displays output)

Notes:
[^4] Refresh rates >60hz also supported, however max resolution will be limited.

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory
- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

Memory Slots
Memory soldered to systemboard, no slots, dual-channel

Memory Type
Notes:
[1] Installed memory is actually LPDDR5x-7500 but run as LPDDR5x-6400 due to platform limitation.

Storage

Storage Support
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
- 5.0MP + IR discrete, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus
- No camera

Notes:
[1] No microphone is for special bid only.
[2] No camera is for special bid only.

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
Configuration 1 (max battery life)
MobileMark® 25: up to 15.3 hr with 692 performance score @250nits
JEITA 2.0: up to 22.29 hr @150nits
Local video playback: up to 18.9 hr @150nits

Alternate configuration 2
MobileMark® 25: up to 12.31 hr with 682 performance score @250nits
JEITA 2.0: up to 21.66 hr @150nits
Local video playback: up to 16.26 hr @150nits
Alternate configuration 3
MobileMark® 25: up to 11.46 hr with 699 performance score @250nits
JEITA 2.0: up to 16.7 hr @150nits
Local video playback: up to 14.16 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA low power (non-touch), AMD Ryzen™ 7 PRO 7840U, 16GB LPDDR5x, Win 11, 54.7Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), AMD Ryzen™ 5 PRO 7540U, 16GB LPDDR5x, Win 11, 54.7Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA low power (non-touch), AMD Ryzen™ 7 PRO 7840U, 16GB LPDDR5x, Win 11, 41Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using 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**[2]
• 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

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>Refresh Rate</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[1]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[2]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[3]</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified 2.0</td>
</tr>
</tbody>
</table>

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

Notes:
[1], [2], [3] 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)

Notes:
[1] Non-backlit keyboard is only available for the models with deep black cover.

Mechanical
Dimensions (WxDxH)
301.7 x 214.8 x 15.95 mm (11.88 x 8.46 x 0.63 inches)

Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with deep black CFRP top cover</td>
<td>Starting at 1.14 kg (2.51 lbs)</td>
</tr>
<tr>
<td>Models with carbon fiber hybrid top cover</td>
<td>Starting at 1.19 kg (2.63 lbs)</td>
</tr>
<tr>
<td>Models with aluminium top cover</td>
<td>Starting at 1.30 kg (2.87 lbs)</td>
</tr>
</tbody>
</table>

Case Color
• Deep black
• Storm grey

Case Material
• Deep black models: carbon fiber hybrid or CFRP (top), aluminium (bottom)
• Storm grey models: aluminium (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.

CONNECTIVITY

Network

Ethernet
No onboard Ethernet

WLAN + Bluetooth
• MediaTek Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3
• Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3

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

SIM Card
No physical SIM card inbox

NFC
• Near Field Communication
• No support

Notes:
Ethernet support via optional Lenovo® USB-C® to Ethernet Adapter.

[2] 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. Bluetooth® 5.3 operation requires Windows® 11. For more information please visit General Bluetooth® Support Information on Microsoft®.

[3] Wireless WAN upgradable to 4G is ONLY available in EMEA.

[4] NFC is mutually exclusive with smart card reader.

**Ports**

**Standard Ports**
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x 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:**
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**

**Docking**
Various docking solutions supported via USB-C®.
For more compatible docking solutions, please visit Docking for ThinkPad® X13 Gen 4 (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
- Self-healing BIOS
- Supervisor password
- System management password
Other Security

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

Notes:
[1] Smart card reader is mutually exclusive with NFC.

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 4 (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:
[1] When you charge the battery, its temperature must be no lower than 10°C (50°F).
ENVIRONMENTAL

Sustainability

Material
50% recycled aluminium on storm grey top cover
50% recycled aluminium or 90% recycled magnesium on keyboard frame
55% recycled aluminium on bottom cover
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery enclosure
90% PCC recycled plastic used in standard 45W and 65W adapters
Low-temperature solder
Retail packaging: plastic free packaging with 100% bamboo sugarcane fiber
Standard or bulk packaging: 90% recycled and FSC certified content

CERTIFICATIONS

Green Certifications

Green Certifications

ENERGY STAR® 8.0
EPEAT™ Gold Registered
ErP Lot 6/26
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.
[2] EPEAT™ registration and ENERGY STAR® certification are dependent on system OS. Please visit epeat.net and energystar.gov for more information.
[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test
MIL-STD-810H military test passed
Eyesafe® Certified 2.0

• 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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