OVERVIEW

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

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

Processor

Processor Family
13th Generation Intel® U or P Series Core™ i3 / i5 / i7 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>Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core™ i3-1315U</td>
<td>6 (2 P-core + 4 E-core)</td>
<td>8</td>
<td>P-core 1.2GHz / E-core 0.9GHz</td>
<td>P-core 4.5GHz / E-core 3.3GHz</td>
<td>10MB</td>
<td>Intel® UHD Graphics</td>
</tr>
<tr>
<td>Core™ i5-1335U</td>
<td>10 (2 P-core + 8 E-core)</td>
<td>12</td>
<td>P-core 1.3GHz / E-core 0.9GHz</td>
<td>P-core 4.6GHz / E-core 3.4GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i5-1340P</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 1.9GHz / E-core 1.4GHz</td>
<td>P-core 4.6GHz / E-core 3.4GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i5-1345U</td>
<td>10 (2 P-core + 8 E-core)</td>
<td>12</td>
<td>P-core 1.6GHz / E-core 1.2GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i5-1350P</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 1.9GHz / E-core 1.4GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i7-1355U</td>
<td>10 (2 P-core + 8 E-core)</td>
<td>12</td>
<td>P-core 1.7GHz / E-core 1.2GHz</td>
<td>P-core 5.0GHz / E-core 3.7GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i7-1360P</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 2.2GHz / E-core 1.6GHz</td>
<td>P-core 5.0GHz / E-core 3.7GHz</td>
<td>18MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i7-1365U</td>
<td>10 (2 P-core + 8 E-core)</td>
<td>12</td>
<td>P-core 1.8GHz / E-core 1.3GHz</td>
<td>P-core 5.2GHz / E-core 3.9GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i7-1370P</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 1.9GHz / E-core 1.4GHz</td>
<td>P-core 5.2GHz / E-core 3.9GHz</td>
<td>24MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
</tbody>
</table>

Notes:
[1] Intel® P series processors are for special bid only.

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>Intel® UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>Intel® Iris® Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12.1</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support[1]
Supports up to 4 independent displays (native display and 3 external monitors via Thunderbolt™ and HDMI®)
• Thunderbolt™ supports up to 5K@60Hz
• HDMI® supports up to 4K@60Hz

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

Chipset
Intel® 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
LPDDR5-4800[1]

Notes:
[1] Installed memory is actually LPDDR5-6400 but run as LPDDR5-4800 due to platform limitation.

Storage
Storage Support[1]
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™ Premium

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[1]
Notes:
[1] 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 12.2 hr with 822 performance score @250nits
JEITA 2.0: up to 22.9 hr @150nits
Local video playback: up to 19.0 hr @150nits

Alternate configuration 2
MobileMark® 25: up to 11.2 hr with 638 performance score @250nits
JEITA 2.0: up to 21.6 hr @150nits
Local video playback: up to 17.5 hr @150nits

Alternate configuration 3
MobileMark® 25: up to 10.6 hr with 639 performance score @250nits
JEITA 2.0: up to 18.5 hr @150nits
Local video playback: up to 15.6 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA low power (non-touch), Intel® i3-1315U, 8GB LPDDR5, Win 11, 54.7Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA low power (non-touch), Intel® i5-1340P, 16GB LPDDR5, Win 11, 54.7Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (touch), Intel® i5-1350P, 16GB LPDDR5, Win 11, 54.7Wh 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**[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

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>
</table>

ThinkPad X13 Gen 4 (Intel) - February 04 2024
## 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[3]

### 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)[3]
301.7 x 214.8 x 15.95 mm (11.88 x 8.46 x 0.63 inches)

### Weight[2]

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with deep black carbon fiber hybrid top cover</td>
<td>Starting at 1.09 kg (2.41 lbs)</td>
</tr>
<tr>
<td>Models with deep black CFRP top cover</td>
<td>Starting at 1.12 kg (2.47 lbs)</td>
</tr>
<tr>
<td>Models with storm grey top cover</td>
<td>Starting at 1.25 kg (2.76 lbs)</td>
</tr>
</tbody>
</table>

### Case Color[2]
- Deep black
- Storm grey

### Case Material[2]
- 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[1]

WLAN + Bluetooth®
Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3[2]

WWAN**
• Wireless WAN upgradable to 4G (with antenna ready)[3]
• 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
• Fibocom FM350-GL, 5G Sub-6 GHz, M.2 Card, with embedded eSIM functionality
• No support

SIM Card
No physical SIM card inbox

NFC[4]
• Near Field Communication
• No support

Notes:
[1] 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 Thunderbolt™ 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 2.0)
• 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

Docking
Various docking solutions supported via Thunderbolt™ / USB-C®.
For more compatible docking solutions, please visit Docking for ThinkPad® X13 Gen 4 (Intel®)

SECURITY & PRIVACY
Security

Security Chip
Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

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

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

MANAGEABILITY

System Management

System Management**
- Intel® vPro® Enterprise[^1]
- Intel® vPro® Essentials[^2]
- Non-vPro®

Notes:
[1], [2] Intel® vPro® offers a superset of DASH's defined capabilities.

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 (Intel®).

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\[^1\]

Green Certifications\[^2\]
- ENERGY STAR® 8.0
- EPEAT™ Gold Registered\[^1\]
- 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

Other Certifications
- (Optional) Intel® Evo™ Platform
- (Optional) 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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