OVERVIEW

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

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

Processor

Processor Family
13th Generation Intel® U or P Series Core™ 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>Processor Graphics</th>
</tr>
</thead>
<tbody>
<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™ 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® Core™ i5-1340P, i5-1350P and i7-1360p are for special bid only.

Operating System

Operating System **
- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 10 DG / Windows® 10 Pro 64
- Fedora Linux[3]
- Linux[2]
- Ubuntu Linux[3]
- No preload operating system

Notes:
[1], [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>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Iris® Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support[3]
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
• 16GB soldered memory, not upgradable
• 32GB soldered memory, not upgradable
• 64GB soldered memory, not upgradable

Memory Slots
Memory soldered to systemboard, no slots, 8-channel

Memory Type**
• LPDDR5/x-6000 (32GB)[1]
• LPDDR5/x-6400 (16GB)[2]
• LPDDR5x-6000 (64GB)[3]

Notes:
[1] Installed memory is actually LPDDR5-6400 or LPDDR5x-7500 but run at 6000MHz due to platform limitation.
[2] Installed memory is actually LPDDR5-6400 or LPDDR5x-7500 but run at 6400MHz due to platform limitation.
[3] Installed memory is actually LPDDR5x-7500 but run at 6000MHz due to platform limitation.

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® ALC3306 codec

Speakers
Stereo speakers, 2W x2 woofers and 0.8W x2 tweeters, Dolby® Atmos®

Microphone
Quad-microphone array, 360° far-field, Dolby® Voice

Camera**
• FHD 1080p + IR discrete, with privacy shutter, MIPI, fixed focus, Computer Vision
• FHD 1080p + IR hybrid, with privacy shutter, fixed focus
• FHD 1080p, with privacy shutter, fixed focus
• HD 720p, with privacy shutter, fixed focus

Battery

Battery
Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

**Battery Life**[1]

Configuration 1 (max battery life)
MobileMark® 25: up to 13.95 hr with 658 performance score @250nits
JEITA 2.0: up to 28.5 hr @150nits
Local video playback: up to 22.9 hr @150nits

Alternate configuration 2
MobileMark® 25: up to 13.63 hr with 654 performance score @250nits
JEITA 2.0: up to 26.4 hr @150nits
Local video playback: up to 20.5 hr @150nits

Alternate configuration 3
MobileMark® 25: up to 13.48 hr with 642 performance score @250nits
JEITA 2.0: up to 24.8 hr @150nits
Local video playback: up to 19.8 hr @150nits

**Notes:**
[1] Configuration 1 (max battery life): WUXGA (non-touch), Intel® i5-1345U, 16GB LPDDR5x, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (non-touch), Intel® i5-1340P, 16GB LPDDR5x, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (non-touch), Intel® i5-1350P, 16GB LPDDR5x, Win 11, 57Wh 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 over 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>14”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[1]</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified 2.0</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[2]</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified 2.0</td>
</tr>
</tbody>
</table>
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**Touchscreen**
- On-cell multi-touch, supports 10-point touch
- Non-touch

**Input Device**

*Keyboard*
6-row, spill-resistant, air intake design, multimedia Fn keys with Unified Communications controls

*Keyboard Backlight*
LED backlight

*UltraNav™*
TrackPoint® pointing device and glass surface multi-touch touchpad, 56 x 110 mm (2.20 x 4.33 inches)

**Mechanical**

*Dimensions (WxDxH)*

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with 720p camera</td>
<td>315.6 x 222.5 x 14.96 mm (12.43 x 8.76 x 0.59 inches)</td>
</tr>
<tr>
<td>Models with other camera</td>
<td>315.6 x 222.5 x 15.36 mm (12.43 x 8.76 x 0.60 inches)</td>
</tr>
</tbody>
</table>

*Weight* Starting at 1.12 kg (2.48 lbs)

*Case Color*  
- Deep black, paint  
- Deep black, weave

*Case Material*
Carbon fiber (top), aluminium (bottom)

Notes:
- The system dimensions may vary depending on configurations.
- 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®*
Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3

*WWAN*  
- Wireless WAN upgradable to 4G or 5G (with antenna ready)  
- Fibocom L860-GL-16, 4G LTE CAT16, MIMO 4x4, 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**
- 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 see [General Bluetooth® Support Information on Microsoft®](#).

**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™ 1.4a)
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)

**Optional Ports**
- 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® X1 Carbon Gen 11](#).

**Monitor Cable**

**Monitor Cable**
- Lenovo® HDMI® to VGA Monitor Adapter
- No monitor cable

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

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

Other Security
• (Optional) IR camera for Windows® Hello (facial recognition)
• Camera privacy shutter
• (Optional) Privacy Guard with Privacy Alert
• Glance by Mirametrix®
• (Optional) Computer Vision-based User Presence Sensing including lock on leave

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

ENVIRONMENTAL

Sustainability

Material
90% recycled magnesium on keyboard cover
55% recycled aluminium on bottom cover
90% PCC recycled plastic used in speaker enclosure
25-30% PCC recycled plastic used in the 57Wh battery enclosure
90% PCC recycled plastic used in standard 45W and 65W adapters
Low-temperature solder
Retail or standard packaging: plastic free packaging with 100% bamboo sugarcane fiber
Bulk packaging: 90% recycled and FSC certified content

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).

ACCESSORIES

Bundled Accessories

Bundled Accessories

- Lenovo® USB-C® to Ethernet Adapter (1Gbps)
- None

Notes:

[1] For more compatible accessory solutions, please visit Accessories for ThinkPad® X1 Carbon Gen 11.

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.
[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 see 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
- (Optional) TÜV Rheinland® Low Blue Light Method 2
- TÜV Rheinland® Dynamic Privacy Filter (DPF) Certification (Privacy Guard models)

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

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