## OVERVIEW

<table>
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<th></th>
<th>Feature</th>
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<tr>
<td>1</td>
<td>Smart card reader *</td>
</tr>
<tr>
<td>2</td>
<td>USB 3.2 Gen 1</td>
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<td>3</td>
<td>Kensington Nano Security Slot</td>
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<td>4</td>
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<td>8</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
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<tr>
<td>9</td>
<td>Nano-SIM card slot *</td>
</tr>
</tbody>
</table>

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

Processor

Processor Family
12th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor\(^{[1]}\)

<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™ i3-1215U</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 4.4GHz / E-core 3.3GHz</td>
<td>10MB</td>
<td>Intel® UHD Graphics</td>
</tr>
<tr>
<td>Core™ i5-1235U</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 4.4GHz / E-core 3.3GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i5-1240P</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 1.7GHz / E-core 1.2GHz</td>
<td>P-core 4.4GHz / E-core 3.3GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i5-1245U</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 4.4GHz / E-core 3.3GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i5-1250P</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 1.7GHz / E-core 1.2GHz</td>
<td>P-core 4.4GHz / E-core 3.3GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i5-1255U</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 4.7GHz / E-core 3.5GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i5-1260P</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 2.1GHz / E-core 1.5GHz</td>
<td>P-core 4.7GHz / E-core 3.4GHz</td>
<td>18MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i7-1265U</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 4.8GHz / E-core 3.6GHz</td>
<td>12MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i7-1270P</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 4.8GHz / E-core 3.5GHz</td>
<td>18MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core™ i7-1280P</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 1.8GHz / E-core 1.3GHz</td>
<td>P-core 4.8GHz / E-core 3.6GHz</td>
<td>24MB</td>
<td>Intel® Iris® Xe Graphics</td>
</tr>
</tbody>
</table>

Notes:
[1] i3-1215U, i7-1255U, i7-1255U and i7-1280P are NOT available in EMEA.

Operating System

Operating System\(^{[2]}\)
- 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\(^{[2]}\)

<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

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

Notes:

[1] In EMEA, 32GB memory is only available for i7 models.
[2] Installed memory is actually LPDDR5-6400 but run as LPDDR5-4800 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® x4 Performance</td>
<td>512GB / 1TB / 2TB[2]</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe® NVMe®, PCIe® x4[3]</td>
<td>256GB / 512GB / 1TB</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.
[2] 2TB SSD is special bid only in EMEA.
[3] PCIe® x4 may be PCIe® 3.0x4 or PCIe® 4.0x4 as substitution.

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, 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**

Configuration 1 (max battery life)
MobileMark® 2018: up to 11.8 hr with 872 performance score @200nits
MobileMark® 25: up to 9.7 hr with 618 performance score @250nits
JEITA 2.0: up to 19.8 hr @150nits
Local video playback: up to 15.7 hr @150nits

Alternate configuration 2
MobileMark® 2018: up to 11.3 hr with 982 performance score @200nits
MobileMark® 25: up to 9.7 hr with 791 performance score @250nits
JEITA 2.0: up to 19.5 hr @150nits
Local video playback: up to 15.2 hr @150nits

Alternate configuration 3
MobileMark® 2018: up to 8.4 hr with 1243 performance score @200nits
MobileMark® 25: up to 5.9 hr with 711 performance score @250nits
JEITA 2.0: up to 14.1 hr @150nits
Local video playback: up to 14 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), Intel® i5-1240P, 8GB LPDDR5, Win 11, 54.7Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), Intel® i5-1245U, 16GB LPDDR5, Win 11, 54.7Wh battery, best power efficiency power mode
Alternate configuration 3: WQXGA, Intel® i7-1280U, 32GB LPDDR5, Win 11, 54.7Wh 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**
- 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:
[2] No power adapter is for special bid only.

**DESIGN**
### Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch 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 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 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 (2560x1600)</td>
<td>None 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 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.
2. WQXGA display is NOT available in EMEA.

### 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 thunder black cover.

### Mechanical

**Dimensions (WxDxH) [2]**

<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 [2]**

<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 1.20 kg (2.65 lbs)</td>
</tr>
<tr>
<td>Models with WUXGA display, 54.7Wh battery, and black carbon fiber top cover</td>
<td>Starting at 1.24 kg (2.74 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, 41Wh battery, and storm grey top cover</td>
<td>Starting at 1.28 kg (2.83 lbs)</td>
</tr>
<tr>
<td>Models with WUXGA display, 54.7Wh battery, and black PPS top cover</td>
<td>Starting at 1.29 kg (2.85 lbs)</td>
</tr>
<tr>
<td>Models with WUXGA display, 54.7Wh battery, and storm grey top cover</td>
<td>Starting at 1.32 kg (2.91 lbs)</td>
</tr>
<tr>
<td>Models with WQXGA display, 41Wh battery, and black PPS top cover</td>
<td>Starting at 1.23 kg (2.71 lbs)</td>
</tr>
</tbody>
</table>
Models with WQXGA display, 54.7Wh battery, and black PPS top cover

Starting at 1.26 kg (2.78 lbs)

**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.
[3] Storm grey case is NOT available in EMEA.

**CONNECTIVITY**

**Network**

**Ethernet**
No onboard Ethernet

**WLAN + Bluetooth®**

Intel® Wi-Fi® 6E AX211, 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] 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)
- 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:**
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 3 (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®
• (Optional) Human Presence Detection
• Tile ready
• Privacy Guard with Privacy Alert (models with ThinkPad® Privacy Guard display)
• Camera privacy shutter (camera models)

MANAGEABILITY

System Management

System Management**
• Intel® vPro® Enterprise[3]
• 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**

- 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 (Intel®)](#).

## OPERATING REQUIREMENTS

### Operating Environment

**Temperature**

- 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**

- 97% PCC recycled plastic used in speaker enclosure
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

## CERTIFICATIONS

### Green Certifications

**Green Certifications**

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered

[1] [Accessories for ThinkPad® X13 Gen 3 (Intel®)](#)
• 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.
[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) 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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