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Summary of Changes

This section describes the technical changes made in this edition. This edition might also include minor corrections and editorial changes which are not identified.

November 1, 2023 - Version 620

Additions in this update

► New product(s)
  None

► Spec updated
  ThinkPad E14 Gen 5 (AMD)
  ThinkPad L14 Gen 4 (Intel)
  ThinkPad L15 Gen 4 (Intel)
  ThinkPad P16s Gen 2 (Intel)
  ThinkPad X1 Carbon Gen 10
  ThinkPad X1 Carbon Gen 11
  ThinkPad Z13 Gen 1
  ThinkPad Z16 Gen 1

Withdrawals in this update

► Withdrawn product(s)
  None
OVERVIEW

1. microSD card reader
2. USB 3.2 Gen 2
3. Kensington Nano Security Slot
4. Thunderbolt 4 (vPro) / USB4 (non-vPro)
5. Thunderbolt 4 (vPro) / USB4 (non-vPro)
6. HDMI
7. USB 3.2 Gen 2
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
12th Generation Intel® Core™ i3 / i5 / i7 Processor

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 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 i5-1245U</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>
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<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>
</tbody>
</table>

Operating System

Operating System**
- ChromeOS
- ChromeOS (with Chrome Education Upgrade)
- ChromeOS (with Chrome Enterprise Upgrade)

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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<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
- Models with Intel vPro*: supports up to 4 independent displays (native display and 3 external monitors via HDMI* and Thunderbolt™)
  - HDMI supports up to 3840x2160@60Hz
  - Thunderbolt supports up to 5120x3200@60Hz
- Models with non-vPro: supports up to 4 independent displays (native display and 3 external monitors via HDMI and USB4®)
  - HDMI supports up to 3840x2160@60Hz
  - USB4 supports up to 5120x3200@60Hz

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory

Max Memory
- 4GB soldered memory, not upgradable
- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable

Memory Slots**
- Memory soldered to systemboard, no slots, single-channel (4GB models)
- Memory soldered to systemboard, no slots, dual-channel (8GB or 16GB models)

Memory Type
LPDDR4x-4266
Storage

Storage Support

- 64GB eMMC 5.1 on systemboard
- 128GB eMMC 5.1 on systemboard
- One drive, up to 256GB M.2 2242 SSD

Storage Slot

- eMMC on systemboard, no slots (eMMC models)
- One M.2 2242 PCIe® 4.0 x4 slot (M.2 SSD models)

Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Memory</td>
<td>eMMC 5.1</td>
<td>64GB / 128GB</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</td>
<td>256GB</td>
<td>Opal 2.0</td>
</tr>
</tbody>
</table>

Notes:
[1] System has one eMMC on systemboard or one M.2 2242 SSD exclusively.
[2] The storage capacity supported is based on the test results with current Lenovo® storage offerings.

Removable Storage

Card Reader

microSD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC5682I codec

Speakers

Stereo speakers, 2W x2, optimized with Waves MaxxAudio®

Microphone

Dual-microphone array

Camera

FHD 1080p, 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

Configuration 1 (max battery life)

Google Power Load Test: 11.4 hr @80nits

Alternate configuration 2

Google Power Load Test: 11.0 hr @80nits

Alternate configuration 3

Google Power Load Test: 10.8 hr @80nits

Notes:
[1] Configuration 1 (max battery life): FHD (non-touch), Intel Pentium® 8505U, 4GB LPDDR4x, Google Chrome OS, 57Wh battery
Alternate configuration 2: FHD (non-touch), Intel i5-1235U, 8GB LPDDR4x, Google Chrome OS, 57Wh battery
Alternate configuration 3: FHD (touch), Intel i7-1265U, 16GB LPDDR4x, Google Chrome OS, 57Wh battery

All battery life claims are approximate maximum and based on results using 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.
Power Adapter

**Notes:**

**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>
</tr>
</thead>
<tbody>
<tr>
<td>14”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>250nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
</tr>
<tr>
<td>14”</td>
<td>FHD (1920x1080)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
</tr>
</tbody>
</table>

**Touchscreen**

- OGS (One Glass Solution) multi-touch, supports 10-point touch
- Non-touch

**Input Device**

Keyboard
Chrome keyboard, 6-row, spill-resistant

Keyboard Backlight
LED backlight

UltraNav™
TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

Dimensions (WxDxH)[2]
325.4 x 217 x 19.83 mm (12.81 x 8.54 x 0.78 inches)

Weight[2]
Starting at 1.56 kg (3.44 lbs)

Case Color
Abyss blue

Case Material
PC-ABS (top), PC-ABS (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®[1]
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[2]
WWAN
• Fibocom L850-GL, 4G LTE CAT9, M.2 card
• No support
SIM Card
No physical SIM card inbox
NFC
No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[2] Wi-Fi 6E full features might be limited by country-level restrictions.
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[1]
Standard Ports
• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x microSD card reader
• 2x USB 3.2 Gen 2
Optional Ports***
• 1x Nano-SIM card slot (WWAN support models)
• 2x Thunderbolt 4 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4) (vPro models)
• 2x USB4 20Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4) (non-vPro 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 or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® C14 Gen 1 Chromebook

SECURITY & PRIVACY

Security
Security Chip
Google Security Chip H1
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
• No fingerprint reader

BIOS Security
No support

Other Security
Camera privacy shutter

MANAGEABILITY

System Management

System Management
• Intel vPro Enterprise
• Non-vPro

Notes:
[1] 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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Operating Environment

Temperature
• Operating: 5°C (41°F) to 35°C (95°F)
• Storage: 5°C (41°F) to 43°C (109°F)

Humidity
• Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
• Storage: 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).

CERTIFICATIONS

Green Certifications

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

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

- 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

1. USB-C 3.2 Gen 1
2. USB 3.2 Gen 1 (Always On)
3. HDMI 1.4b
4. Headphone / microphone combo jack (3.5mm)
5. USB 2.0
6. Ethernet (RJ-45) *
7. Kensington Security Slot

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

Processor

Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Processor Graphics
---|---|---|---|---|---|---
AMD Ryzen 3 5425U | 4 | 8 | 2.7GHz | 4.1GHz | 2MB L2 / 8MB L3 | AMD Radeon™ Graphics
AMD Ryzen 5 5625U | 6 | 12 | 2.3GHz | 4.3GHz | 3MB L2 / 16MB L3 | AMD Radeon Graphics
AMD Ryzen 5 PRO 5675U | 6 | 12 | 2.3GHz | 4.3GHz | 3MB L2 / 16MB L3 | AMD Radeon Graphics
AMD Ryzen 7 5825U | 8 | 16 | 2.0GHz | 4.5GHz | 4MB L2 / 16MB L3 | AMD Radeon Graphics

Operating System

Operating System

- Windows® 11 DG Windows 10 Pro 64\[1\]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system\[2\]

Notes:

\[1\] Windows 11 DG Windows 10 Pro 64 is for special bid only.
\[2\] No operating system is for special bid only.

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>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support

Supports up to 3 independent displays (native display and 2 external monitors via HDMI\(^\circ\) and USB-C\(^\circ\))
- HDMI supports up to 3840x2160@30Hz
- USB-C supports up to 4096x2160@60Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory\[3\]

Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots

One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type

DDR4-3200

Notes:

\[3\] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Storage Support\[4\][5]

Up to two drives, 2x M.2 SSD
- M.2 2242 SSD up to 512GB
• M.2 2280 SSD up to 1TB

Storage Slot
Two M.2 slots
• One M.2 2242 PCIe® 3.0 x4 slot
• One M.2 2280 PCIe 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</td>
<td>256GB / 512GB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>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] The system supports dual SSD via two M.2 slots, but Lenovo only offers one SSD configuration, another SSD slot for user self-extension.
[3], [4] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0x4 due to the system slot limitation.

Removable Storage
Optical
None
Card Reader
No card reader

Multi-Media

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

Speakers
Stereo speakers, 2W x2, Dolby® Audio™, audio by HARMAN

Microphone
Dual-microphone array, near-field

Camera
• HD 720p, with privacy shutter, fixed focus
• FHD 1080p, with privacy shutter, fixed focus
• FHD 1080p + IR hybrid, with privacy shutter, fixed focus

Battery

Battery
• Integrated Li-Polymer 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
• Integrated Li-Polymer 57Wh battery

Max Battery Life
• Models with 45Wh battery:
  MobileMark® 2018: 9.2 hr
  JEITA 2.0: 12.1 hr
• Models with 57Wh battery:
  MobileMark 2018: 15.0 hr
  JEITA 2.0: 21.0 hr

Notes:
[1] All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, MobileMark 25, JEITA 2.0, continuous 1080p video playback (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 and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

Power Adapter
ThinkPad E14 Gen 4 (AMD)

- 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

Notes:

DESIGN

Display

Display**[1]

<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>
</tr>
</thead>
<tbody>
<tr>
<td>14&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>TN</td>
<td>250nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>500:1</td>
<td>45% NTSC</td>
<td>45°/45°/15°/35°</td>
</tr>
<tr>
<td>14&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS[2]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
</tr>
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<td>14&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
</tr>
</tbody>
</table>

Touchscreen

Non-touch

Notes:
[1] Display with FHD 100% sRGB is NOT available in EMEA.
[2] 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 Mylar® surface multi-touch touchpad, 57 x 100 mm (2.24 x 3.94 inches)

Mechanical

Dimensions (WxDxH)[3]

<table>
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<tr>
<th>Models</th>
<th>Dimensions</th>
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<tr>
<td>Aluminium (top), aluminium (bottom) models</td>
<td>324 x 220.7 x 17.9 mm (12.76 x 8.69 x 0.7 inches)</td>
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<td>324 x 220.7 x 18.9 mm (12.76 x 8.69 x 0.74 inches)</td>
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Weight[3]

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</tr>
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<td>Aluminium (top), aluminium (bottom) models</td>
<td>Starting at 1.64 kg (3.62 lbs)</td>
</tr>
</tbody>
</table>

Case Color**

- Black
- Mineral metallic[3]

Case Material**

- Aluminium (top), PC-ABS (bottom)
- Aluminium (top), aluminium (bottom)

Notes:
[1] 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.

Mineral metallic case is NOT available in EMEA.

**CONNECTIVITY**

**Network**

**Ethernet**
- Gigabit Ethernet, Realtek RTL8111H-CG, 1x RJ-45, supports Wake-on-LAN
- No onboard Ethernet

**WLAN + Bluetooth®**
- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- MediaTek Wi-Fi 6 MT7921, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Realtek Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- AMD Wi-Fi 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Realtek Wi-Fi 6E RTL8852CE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

**WWAN**
- No support

**SIM Card**
- No physical SIM card inbox

**NFC**
- No support

Notes:
- Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
- Wi-Fi 6 full features might be limited by country-level restrictions.
- 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 HDMI 1.4b
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 2.0
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.2)

**Optional Ports**
- 1x Ethernet (RJ-45)

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.
SECURITY & PRIVACY

Security

Security Chip
- Firmware TPM 2.0 integrated in SoC
- Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

Physical Locks
Kensington Security Slot™, 3 x 7 mm

Smart Card Reader
No smart card reader

Fingerprint Reader
- Touch style fingerprint reader integrated in power button
- No fingerprint reader

BIOS Security
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security
- Camera privacy shutter
- (Optional) IR camera for Windows Hello

SERVICE

Warranty

Base Warranty
- 1-year mail-in service
- 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
- No base warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

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)

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).
CERTIFICATIONS

Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- ErP Lot 3
- TCO Certified
- RoHS compliant

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
TÜV Rheinland® Low Blue Light (Software 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>2</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>3</td>
<td>HDMI</td>
</tr>
<tr>
<td>4</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>5</td>
<td>USB 2.0</td>
</tr>
<tr>
<td>6</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>7</td>
<td>Kensington Security Slot</td>
</tr>
</tbody>
</table>
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>Processor 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[2]</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[3]</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[4]</td>
</tr>
<tr>
<td>Core i7-1255U</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[5]</td>
</tr>
<tr>
<td>Core i7-1260P</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[6]</td>
</tr>
</tbody>
</table>

Notes:
[1] i5-1240p and i7-1260P are NOT available in EMEA.
[2], [3], [4], [5], [6] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

Operating System**

- Ubuntu Linux[1]
- Windows® 11 DG Windows 10 Pro 64[2]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>Intel Iris Xe Graphics[1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA® GeForce MX550</td>
<td>Discrete</td>
<td>2GB GDDR6</td>
<td>-</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:
[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support
Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and Thunderbolt™)
ThinkPad E14 Gen 4 (Intel)

• HDMI supports up to 3840x2160@60Hz
• Thunderbolt supports up to 5120x3200@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory\(^{[1]}\)
- Up to 32GB DDR4-3200
- Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots**
- One DDR4 SO-DIMM slot
- One memory soldered to system board, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type
DDR4-3200

Notes:
\(^{[1]}\) The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Storage Support\(^{[1][2]}\)
Up to two drives, 2x M.2 SSD
- M.2 2242 SSD up to 1TB

Storage Slot
Two M.2 slots
- One M.2 2242 PCIe® 3.0 x4 slot
- One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe(^{*}), PCIe 4.0 x4</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.
\(^{[2]}\) The system supports dual SSD via two M.2 slots, but Lenovo only offers one SSD configuration, another SSD slot for user self-extension.

Removable Storage

Optical
None

Card Reader
No card reader

Multi-Media

Audio Chip
High Definition (HD) Audio, Realtek\(^{\oplus}\) ALC3287 codec

Speakers
Stereo speakers, 2W x2, Dolby\(^{\letrm}\) Audio\(^{\letrm}\), audio by HARMAN

Microphone
Dual-microphone array, near-field

Camera**
- 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 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 57Wh battery

Max Battery Life
- Models with 45Wh battery:
  - MobileMark® 2018: 9.4 hr
  - JEITA 2.0: 16.1 hr
  - Local video (1080p) playback@150nits: 11.8 hr
- Models with 57Wh battery:
  - MobileMark 2018: 11.5 hr
  - MobileMark 25: 10.9 hr
  - JEITA 2.0: 20.6 hr
  - Local video (1080p) playback@150nits: 15.6 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, MobileMark 25, JEITA 2.0, continuous 1080p video playback (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 and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

Power Adapter**
- 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

Notes:


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>
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<tr>
<td>14”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
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<td>16:9</td>
<td>500:1</td>
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<td>45°/45°/15°/35°</td>
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<tr>
<td>14”</td>
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<td>Multi-touch</td>
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<td>1200:1</td>
<td>100% sRGB</td>
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</tr>
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Touchscreen
- On-cell multi-touch, supports 10-point touch
- Non-touch

Notes:

[1] Multi-touch panel is only for special bid in EMEA.
[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 Mylar® surface multi-touch touchpad, 57 x 100 mm (2.24 x 3.94 inches)

Mechanical

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</table>

Case Color*\(^{*}\)
- Black
- Mineral metallic\(^{[3]}\)

Case Material*\(^{*}\)
- Aluminium (top), PC-ABS (bottom)
- 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.
\(^{[3]}\) Mineral metallic case is NOT available in EMEA.

CONNECTIVITY

Network

Ethernet
Gigabit Ethernet, Intel Ethernet Connection I219-V, 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®*\(^{*}\)
- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card\(^{[2]}\)
- Realtek Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card\(^{[4]}\)
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card\(^{[4]}\)
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card\(^{[5]}\)
- AMD Wi-Fi 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card\(^{[6]}\)
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card\(^{[7]}\)

WWAN
No support

SIM Card
No physical SIM card inbox

NFC
No support

Notes:
\(^{[1]}\) Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
\(^{[2]}, [3], [4]\) Wi-Fi 6 full features might be limited by country-level restrictions.
\(^{[5]}, [6], [7]\) 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 Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB 2.0
- 1x USB 3.2 Gen 1 (Always On)

**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. For more compatible docking solutions, please visit [Docking for ThinkPad® E14 Gen 4 (Intel)](https://www.lenovo.com).

**SECURITY & PRIVACY**

**Security**

**Security Chip**

- Firmware TPM 2.0 integrated in SoC
- Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

**Physical Locks**

Kensington® Security Slot™, 3 x 7 mm

**Smart Card Reader**

No smart card reader

**Fingerprint Reader**

- Touch style fingerprint reader integrated in power button
- No fingerprint reader

**BIOS Security**

- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

**Other Security**

- Camera privacy shutter
- (Optional) IR camera for Windows Hello

**SERVICE**

**Warranty**

**Base Warranty**

- 1-year mail-in service
- 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
No base warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

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)

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 15.6" laptop casual toploader, polyester
- None

CERTIFICATIONS

Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) 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.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
TÜV Rheinland® Low Blue Light (Software Solution)
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## OVERVIEW

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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>2.</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>3.</td>
<td>Kensington Nano Security Slot</td>
</tr>
<tr>
<td>4.</td>
<td>USB-C 3.2 Gen 1</td>
</tr>
<tr>
<td>5.</td>
<td>USB-C 3.2 Gen 2</td>
</tr>
<tr>
<td>6.</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>7.</td>
<td>HDMI</td>
</tr>
<tr>
<td>8.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
</tbody>
</table>
PERFORMANCE

Processor
Processor Family
AMD Ryzen™ 3 / 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 3 7330U</td>
<td>4</td>
<td>8</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 5625U(1)</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 7530U</td>
<td>6</td>
<td>12</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 7730U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Notes:
(1) AMD Ryzen 5 5625U is for special bid.

Operating System

Operating System**
• Windows® 11 DG Windows 10 Pro 64(1)
• Windows 11 Home
• Windows 11 Home Single Language
• Windows 11 Pro
• No operating system

Notes:
(1) Windows 11 DG Windows 10 Pro 64 is for special bid only.

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>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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 4096x2160@30Hz
• USB-C supports up to 5120x2160@60Hz

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory(1)
Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots
One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type
DDR4-3200

Notes:
(1) The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Storage Support(1)

[2 of 9] ThinkPad E14 Gen 5 (AMD) - October 19 2023
Up to two drives, 2x M.2 SSD
• M.2 2242 SSD up to 512GB
• M.2 2280 SSD up to 1TB

Storage Slot
Two M.2 slots
• One M.2 2242 PCIe® 3.0 x4 slot
• One M.2 2280 PCIe 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 3.0 x4</td>
<td>128GB</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>256GB / 512GB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>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] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0 x4 due to AMD platform limitations.
[3] 128GB SSD is for special bid only.

Removable Storage
Card Reader
No card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Synaptic® CX11880 codec

Speakers
Stereo speakers, 2W x2, Dolby® Atmos®

Microphone
Dual-microphone array, Dolby Voice

Camera
• 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 47Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
• Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Battery Life
Configuration 1 (max battery life)
MobileMark® 2018: up to 15.03 hr @200nits
JEITA 2.0: up to 20.85 hr @150nits
Local video playback: up to 19.56 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 13.73 hr @200nits
JEITA 2.0: up to 17.34 hr @150nits
Local video playback: up to 15.1 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 12.38 hr @200nits
JEITA 2.0: up to 14.37 hr @150nits
Local video playback: up to 15.2 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), AMD Ryzen 7 7730U, 8GB DDR4, Win 11, 57Wh battery, best
power efficiency power mode
Alternate configuration 2: WUXGA (touch), AMD Ryzen 5 7530U, 16GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (non-touch), AMD Ryzen 7 7730U, 8GB DDR4, Win 11, 47Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using MobileMark 2018, 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]
- 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

Notes:

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>Refresh Rate</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light (Software)</td>
</tr>
<tr>
<td>14&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>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light (Software)</td>
</tr>
<tr>
<td>14&quot;</td>
<td>2.2K (2240x1400)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>Eyesafe® Certified 2.0</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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Mechanical
Dimensions (WxDxH)[1]
Starting at 313 x 219.3 x 17.99 mm (12.32 x 8.63 x 0.71 inches)
**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium (top), PC-ABS (bottom) models</td>
<td>Starting at 1.41 kg (3.11 lbs)</td>
</tr>
<tr>
<td>Aluminium (top), aluminium (bottom) models</td>
<td>Starting at 1.43 kg (3.15 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**

- Arctic grey
- Graphite black

**Case Material**

- Aluminium (top), PC-ABS (bottom)
- 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**

Gigabit Ethernet, Realtek® RTL8111H-CG, 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth®**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- MediaTek Wi-Fi 6 MT7921, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Realtek Wi-Fi 6 RT8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- AMD Wi-Fi 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Realtek Wi-Fi 6E RTL8852CE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

**WWAN**

No support

**SIM Card**

No physical SIM card inbox

**NFC**

No support

Notes:

[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

[2], [3], [4] Wi-Fi 6 full features might be limited by country-level restrictions.

[5], [6], [7] Wi-Fi 6E full features might be limited by country-level restrictions.

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 Ethernet (RJ-45)
- 1x HDMI 1.4b
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)

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

Various docking solutions supported via USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® E14 Gen 5 (AMD)

SECURITY & PRIVACY

Security

Security Chip**
- Firmware TPM 2.0 integrated in SoC
- 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
- No fingerprint reader

BIOS Security
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security
- Camera privacy shutter
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management
Non-DASH

SERVICE

Warranty[*]

Base Warranty**
- 1-year mail-in service
- 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
- No base warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of
warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
25% PCC recycled plastic used in the battery
30% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in standard 65W adapter
Low-temperature solder

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 109°F

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).

CERTIFICATIONS

Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- ErP Lot 26
- ErP Lot 6
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
- (Optional) Eyesafe Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland Low Blue Light (Software 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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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>USB 2.0</td>
<td>5</td>
<td>Thunderbolt 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Ethernet (RJ-45)</td>
<td>6</td>
<td>USB 3.2 Gen 1 (Always On)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Kensington Nano Security Slot</td>
<td>7</td>
<td>HDMI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>USB-C 3.2 Gen 2</td>
<td>8</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 i5-13500H</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 2.6GHz / E-core 1.9GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>18MB</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 i7-13700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.4GHz / E-core 1.8GHz</td>
<td>P-core 5.0GHz / E-core 3.7GHz</td>
<td>24MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
</tbody>
</table>

Notes:

[1], [2], [3], [4], [5], [6], [7], [8] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

Operating System**

- Ubuntu Linux[1]
- Windows® 11 DG Windows 10 Pro 64[2]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>Intel Iris Xe Graphics[1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX 12.1</td>
</tr>
<tr>
<td>NVIDIA® GeForce MX550</td>
<td>Discrete</td>
<td>2GB GDDR6</td>
<td>-</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:

[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

**Monitor Support**

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™):
- HDMI supports up to 4096x2160@60Hz
- USB-C supports up to 3840x2160@60Hz
- Thunderbolt supports up to 5120x2160@60Hz

**Chipset**

Intel SoC (System on Chip) platform

**Memory**

- Max Memory:
  - Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200
  - Up to 48GB (16GB soldered + 32GB SO-DIMM) DDR4-3200

**Memory Slots**

One memory soldered to system board, one DDR4 SO-DIMM slot, dual-channel capable

**Memory Type**

DDR4-3200

**Notes:**

[1] The max memory is based on the test results with current Lenovo® memory offerings.

**Storage**

- Up to two drives, 2x M.2 SSD
  - M.2 2242 SSD up to 1TB

**Storage Slot**

- Two M.2 slots
  - One M.2 2242 PCIe® 3.0 x4 slot
  - One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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] M.2 PCIe 4.0 x4 SSD in the M.2 PCIe 3.0 x4 slot is downgraded to PCIe 3.0 x4 performance.

**Removable Storage**

No card reader

**Multi-Media**

**Audio Chip**

High Definition (HD) Audio, Synaptic® CX11880 codec

**Speakers**

Stereo speakers, 2W x2, Dolby® Atmos®

**Microphone**

Dual-microphone array, Dolby Voice

**Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
ThinkPad E14 Gen 5 (Intel)

- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus

**Battery**
- Integrated Li-Polymer 47Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Battery Life**
**Configuration 1 (max battery life)**
- MobileMark® 2018: up to 11.2 hr @200nits
- MobileMark 25: up to 8.58 hr with 725 performance score @250nits
- JEITA 2.0: up to 15.2 hr @150nits
- Local video playback: up to 13.9 hr @150nits

**Alternate configuration 2**
- MobileMark 2018: up to 9.16 hr @200nits
- MobileMark 25: up to 7.6 hr with 814 performance score @250nits
- JEITA 2.0: up to 14.9 hr @150nits
- Local video playback: up to 13.4 hr @150nits

**Alternate configuration 3**
- MobileMark 2018: up to 8.18 hr @200nits
- MobileMark 25: up to 6.7 hr with 716 performance score @250nits
- JEITA 2.0: up to 13.1 hr @150nits

*Notes:*
1. Configuration 1 (max battery life): WUXGA (non-touch), Intel i3-1315U, 8GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
2. Alternate configuration 2: WUXGA (touch), Intel i5-1340P, 16GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
3. Alternate configuration 3: 2.2K (non-touch), Intel i7-1355U, 40GB DDR4, NVIDIA Geforce MX550, Win 11, 57Wh 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 the Microsoft® link for more information about the Windows Performance power slider.

**Power Adapter**

**Power Adapter**
- 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

*Notes:*
1. AC adapter offerings depend on the country.

**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>Refresh Rate</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light (Software)</td>
</tr>
</tbody>
</table>

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**ThinkPad E14 Gen 5 (Intel)**

<table>
<thead>
<tr>
<th>14&quot;</th>
<th>WUXGA (1920x1200)</th>
<th>Multi-touch IPS</th>
<th>300nits</th>
<th>Anti-glare</th>
<th>16:10</th>
<th>800:1</th>
<th>45% NTSC</th>
<th>60Hz</th>
<th>85°/85°/85°/85°</th>
<th>TÜV Low Blue Light (Software)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14&quot;</td>
<td>2.2K (2240x1400)</td>
<td>None IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>Eyesafe® Certified 2.0</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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**
Starting at 313 x 219.3 x 17.99 mm (12.32 x 8.63 x 0.71 inches)

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium (top), PC-ABS (bottom)</td>
<td>Starting at 1.41 kg (3.11 lbs)</td>
</tr>
<tr>
<td>Aluminium (top), aluminium (bottom)</td>
<td>Starting at 1.43 kg (3.15 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
- Arctic grey
- Graphite black

**Case Material**
- Aluminium (top), PC-ABS (bottom)
- 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**
Gigabit Ethernet, Intel Ethernet Connection I219-V, 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth**
- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Realtek® Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Realtek Wi-Fi 6E RTL8852CE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card

*ThinkPad E14 Gen 5 (Intel) - August 03 2023*
WWAN
No support

SIM Card
No physical SIM card inbox

NFC
No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[2], [3], [4] Wi-Fi 6 full features might be limited by country-level restrictions.
[5], [6], [7] 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 Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB 2.0
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)

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 or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® E14 Gen 5 (Intel)

SECURITY & PRIVACY

Security

Security Chip**
- Firmware TPM 2.0 integrated in SoC
- 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
- No fingerprint reader

BIOS Security
- Power-on password
- Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• Camera privacy shutter
• (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management
• Intel vPro® Enterprise
• Non-vPro

SERVICE

Warranty[1]

Base Warranty**
• 1-year mail-in service
• 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
• No base warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
25% PCC recycled plastic used in the battery
30% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in standard 65W adapter
Low-temperature solder

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)

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
Lenovo 15.6" laptop casual toploader, polyester, black

CERTIFICATIONS

Green Certifications

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- ErP Lot 26
- ErP Lot 6
- FSC certified package
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland Low Blue Light (Software Solution)

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

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The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. USB-C 3.2 Gen 1
2. USB 3.2 Gen 1 (Always On)
3. HDMI 1.4b
4. Headphone / microphone combo jack (3.5mm)
5. USB 2.0
6. Ethernet (RJ-45)
7. Kensington Security Slot
PERFORMANCE

Processor

Processor Family
AMD Ryzen™ 3 / 5 / 7 Processor

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 3 5425U</td>
<td>4</td>
<td>8</td>
<td>2.7GHz</td>
<td>4.1GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 5625U</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 5825U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**

- Windows® 11 DG Windows 10 Pro 64[1]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system[2]

Notes:

[1] Windows 11 DG Windows 10 Pro 64 is for special bid only.
[2] No operating system is for special bid only.

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>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support

Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and USB-C®)
- HDMI supports up to 3840x2160@30Hz
- USB-C supports up to 4096x2160@60Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory[1]
Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots
One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type
DDR4-3200

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Storage Support[1][2]
Up to two drives, 2x M.2 SSD
- M.2 2242 SSD up to 512GB
- M.2 2280 SSD up to 1TB
Storage Slot
Two M.2 slots
• One M.2 2242 PCIe® 3.0 x4 slot
• One M.2 2280 PCIe 3.0 x4 slot

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</td>
<td>256GB / 512GB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>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] The system supports dual SSD via two M.2 slots, but Lenovo only offers one SSD configuration, another SSD slot for user self-extension.
[3] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0x4 due to the system slot limitation.

Removable Storage
Optical
None
Card Reader
No card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3287 codec
Speakers
Stereo speakers, 2W x2, Dolby® Audio™, audio by HARMAN
Microphone
Dual-microphone array, near-field
Camera**
• HD 720p, with privacy shutter, fixed focus
• FHD 1080p, with privacy shutter, fixed focus
• FHD 1080p + IR hybrid, with privacy shutter, fixed focus

Battery
Battery**
• Integrated Li-Polymer 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
• Integrated Li-Polymer 57Wh battery
Max Battery Life[2]
• Models with 45Wh battery:
  MobileMark® 2018: 9.6 hr
  JEITA 2.0: 14.1 hr
• Models with 57Wh battery:
  MobileMark 2018: 12.0 hr
  JEITA 2.0: 16.5 hr

Notes:
[1] All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, MobileMark 25, JEITA 2.0, continuous 1080p video playback (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 and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter
Power Adapter**[2]
• 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

Notes:

**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>
</tr>
</thead>
<tbody>
<tr>
<td>15.6”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>TN</td>
<td>250nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>500:1</td>
<td>45% NTSC</td>
<td>45°/45°/15°/35°</td>
</tr>
<tr>
<td>15.6”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
</tr>
<tr>
<td>15.6”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
</tr>
</tbody>
</table>

**Touchscreen**

Non-touch

Notes:
[1] Display with FHD 100% sRGB is NOT available in EMEA.
[2] 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, numeric keypad

**Keyboard Backlight**

• LED backlight
• Non-backlight

**UltraNav™**

TrackPoint® pointing device and Mylar* surface multi-touch touchpad, 69 x 100 mm (2.72 x 3.94 inches)

**Mechanical**

**Dimensions (WxDxH)**

365 x 240 x 18.9 mm (14.37 x 9.45 x 0.74 inches)

**Weight**

Starting at 1.78 kg (3.92 lbs)

**Case Color**

• Black
• Mineral metallic

**Case Material**

Aluminium (top), PC-ABS (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] Mineral metallic case is NOT available in EMEA.

**CONNECTIVITY**
**Network**

**Ethernet**
Gigabit Ethernet, Realtek RTL8111H-CG, 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth®**

- Wi-Fi®, 802.11ax 2x2, Wi-Fi + Bluetooth 5.1, M.2 card[^2]
- Mediatek Wi-Fi 6 MT7921, 802.11ax 2x2, Wi-Fi + Bluetooth 5.1, M.2 Card[^3]
- Realtek Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2, Wi-Fi + Bluetooth 5.1, M.2 card[^4]
- Wi-Fi 6E, 802.11ax 2x2, Wi-Fi + Bluetooth 5.1, M.2 card[^5]
- AMD Wi-Fi 6E RZ616, 802.11ax 2x2, Wi-Fi + Bluetooth 5.1, M.2 Card[^6]
- Realtek Wi-Fi 6E RTL8852CE, 802.11ax Dual Band 2x2, Wi-Fi + Bluetooth 5.1, M.2 card[^7]

**WWAN**
No support

**SIM Card**
No physical SIM card inbox

**NFC**
No support

---

**Notes:**

[^1]: Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[^2],[^3],[^4]: Wi-Fi 6 full features might be limited by country-level restrictions.
[^5],[^6],[^7]: Wi-Fi 6E full features might be limited by country-level restrictions.

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**[^1]

**Standard Ports**
- 1x Ethernet (RJ-45)
- 1x HDMI 1.4b
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 2.0
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.2)

**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 USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad® E15 Gen 4 (AMD)](https://www.lenovo.com)

---

**SECURITY & PRIVACY**

**Security**

**Security Chip**[^2]
- Firmware TPM 2.0 integrated in SoC
- Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

**Physical Locks**
Kensington® Security Slot™, 3 x 7 mm

**Smart Card Reader**
No smart card reader

**Fingerprint Reader**
- Touch style fingerprint reader integrated in power button
- No fingerprint reader

**BIOS Security**
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

**Other Security**
- Camera privacy shutter
- (Optional) IR camera for Windows Hello

**SERVICE**

**Warranty**[1]

**Base Warranty**
- 1-year mail-in service
- 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
- No base warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model's configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

**ENVIRONMENTAL**

**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)

**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**
None

**CERTIFICATIONS**
Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- ErP Lot 3
- TCO Certified
- RoHS compliant

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
TÜV Rheinland® Low Blue Light (Software 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

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<th>5. USB 2.0</th>
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<tr>
<td>2. USB 3.2 Gen 1 (Always On)</td>
<td>6. Ethernet (RJ-45)</td>
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<tr>
<td>3. HDMI</td>
<td>7. Kensington Security Slot</td>
</tr>
<tr>
<td>4. Headphone / microphone combo jack (3.5mm)</td>
<td></td>
</tr>
</tbody>
</table>
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>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i3-1215U</td>
<td>6</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</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[2]</td>
</tr>
<tr>
<td>Core i5-1240P</td>
<td>12</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[3]</td>
</tr>
<tr>
<td>Core i7-1255U</td>
<td>10</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[4]</td>
</tr>
<tr>
<td>Core i7-1260P</td>
<td>12</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[5]</td>
</tr>
</tbody>
</table>

Notes:
[1] i5-1240P and i7-1260P are NOT available in EMEA.
[2], [3], [4], [5] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

Operating System**
- Ubuntu Linux[1]
- Windows® 11 DG Windows 10 Pro 64[2]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>Intel Iris Xe Graphics[3]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX 12.1</td>
</tr>
<tr>
<td>NVIDIA® GeForce MX550</td>
<td>Discrete</td>
<td>2GB GDDR6</td>
<td>-</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:
[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support
Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- Thunderbolt supports up to 5120x3200@60Hz
**Chipset**
Intel SoC (System on Chip) platform

**Memory**
Max Memory
- Up to 32GB DDR4-3200
- Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots
- One DDR4 SO-DIMM slot
- One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type
DDR4-3200

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.

**Storage**
Storage Support
- Up to two drives, 2x M.2 SSD
  - M.2 2242 SSD up to 1TB

Storage Slot
- Two M.2 slots
  - One M.2 2242 PCIe® 3.0 x4 slot
  - One M.2 2242 PCIe 4.0 x4 slot

Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
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<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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] The system supports dual SSD via two M.2 slots, but Lenovo only offers one SSD configuration, another SSD slot for user self-extension.

**Removable Storage**
Optical
None

Card Reader
No card reader

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

Speakers
Stereo speakers, 2W x2, Dolby® Audio™, audio by HARMAN

Microphone
Dual-microphone array, near-field

Camera
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus

**Battery**

**Integrated Li-Polymer 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)**

• Integrated Li-Polymer 57Wh battery

**Max Battery Life**(*)

• Models with 45Wh battery:
  - MobileMark® 2018: 8.0 hr
  - JEITA 2.0: 12.6 hr
  - Local video (1080p) playback@150nits: 11.1 hr

• Models with 57Wh battery:
  - MobileMark 2018: 10.8 hr
  - MobileMark 25: 9.9 hr
  - JEITA 2.0: 15.6 hr
  - Local video (1080p) playback@150nits: 14.6 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, MobileMark 25, JEITA 2.0, continuous 1080p video playback (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 and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

**Power Adapter**

Power Adapter**[1]**

• 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

Notes:


**DESIGN**

**Display**

**Display**(*)

| Size       | Resolution       | Touch   | Type   | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut    | Viewing Angle (L/R/U/D) |
|------------|------------------|---------|--------|------------|---------|--------------|----------------|-------------------------|
| 15.6”      | FHD (1920x1080)  | None    | TN     | 250nits    | Anti-glare | 16:9         | 500:1          | 45% NTSC                | 45°/45°/15°/35°          |
| 15.6”      | FHD (1920x1080)  | None    | IPS    | 300nits    | Anti-glare | 16:9         | 800:1          | 45% NTSC                | 85°/85°/85°/85°           |
| 15.6”      | FHD (1920x1080)  | Multi-touch | IPS[2] | 300nits | Anti-glare | 16:9 | 800:1 | 45% NTSC | 85°/85°/85°/85° |
| 15.6”      | FHD (1920x1080)  | None    | IPS[1] | 300nits    | Anti-glare | 16:9 | 1200:1 | 100% sRGB | 85°/85°/85°/85° |

**Touchscreen**

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

Notes:

[1] Multi-touch panel is only for special bid in EMEA.
[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, numeric keypad

**Keyboard Backlight**
LED backlight
• Non-backlight

UltraNav™
TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 69 x 100 mm (2.72 x 3.94 inches)

Mechanical
Dimensions (WxDxH)[3]
365 x 240 x 18.9 mm (14.37 x 9.45 x 0.74 inches)
Weight[2]
Starting at 1.7 kg (3.75 lbs)
Case Color**
• Black
• Mineral metallic[3]
Case Material
Aluminium (top), PC-ABS (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] Mineral metallic case is NOT available in EMEA.

CONNECTIVITY

Network
Ethernet
Gigabit Ethernet, Intel Ethernet Connection I219-V, 1x RJ-45, supports Wake-on-LAN
WLAN + Bluetooth®**[1]
• Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card[2]
• Realtek Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card[3]
• Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[4]
• Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card[5]
• AMD Wi-Fi 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[6]
• Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[7]
WWAN
No support
SIM Card
No physical SIM card inbox
NFC
No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[2], [3], [4] Wi-Fi 6 full features might be limited by country-level restrictions.
[5], [6], [7] 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[1]
Standard Ports
• 1x Ethernet (RJ-45)
• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort℠ 1.4)
1x USB 2.0
1x USB 3.2 Gen 1 (Always On)

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® E15 Gen 4 (Intel)

SECURITY & PRIVACY

Security

Security Chip

• Firmware TPM 2.0 integrated in SoC
• Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

Physical Locks

Kensington™ Security Slot™, 3 x 7 mm

Smart Card Reader

No smart card reader

Fingerprint Reader

• Touch style fingerprint reader integrated in power button
• No fingerprint reader

BIOS Security

• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security

• Camera privacy shutter
• (Optional) IR camera for Windows Hello

SERVICE

Warranty[1]

Base Warranty

• 1-year mail-in service
• 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
• No base warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL
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)

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

Lenovo 15.6" laptop casual toploader, polyester

CERTIFICATIONS

Green Certifications

(1) Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- 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.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
- TÜV Rheinland® Low Blue Light (Software Solution)

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

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## OVERVIEW

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<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>2.</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>3.</td>
<td>Kensington Nano Security Slot</td>
</tr>
<tr>
<td>4.</td>
<td>USB-C 3.2 Gen 1</td>
</tr>
<tr>
<td>5.</td>
<td>USB-C 3.2 Gen 2</td>
</tr>
<tr>
<td>6.</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>7.</td>
<td>HDMI</td>
</tr>
<tr>
<td>8.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
</tbody>
</table>
PERFORMANCE

Processor

Processor Family
AMD Ryzen™ 3 / 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 3 7330U</td>
<td>4</td>
<td>8</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 7530U</td>
<td>6</td>
<td>12</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 7730U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System
Windows® 11 DG Windows 10 Pro 64[^1]
• Windows 11 Home
• Windows 11 Home Single Language
• Windows 11 Pro
• No operating system

Notes:
[^1] Windows 11 DG Windows 10 Pro 64 is for special bid only.

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>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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 4096x2160@30Hz
• USB-C supports up to 5120x2160@60Hz

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory[^1]
Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots
One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type
DDR4-3200

Notes:
[^1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Storage Support[^1]
Up to two drives, 2x M.2 SSD
• M.2 2242 SSD up to 512GB
• M.2 2280 SSD up to 1TB

Storage Slot
Two M.2 slots
• One M.2 2242 PCIe® 3.0 x4 slot
• One M.2 2280 PCIe 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</td>
<td>256GB / 512GB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>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] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0 x4 due to AMD platform limitations.

Removable Storage

Card Reader
No card reader

Multi-Media

Audio Chip
High Definition (HD) Audio, Synaptic® CX11880 codec

Speakers
Stereo speakers, 2W x2, Dolby® Atmos®

Microphone
Dual-microphone array, Dolby Voice

Camera
• 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 47Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
• Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Battery Life

Configuration 1 (max battery life)
MobileMark® 2018: up to 14.45 hr @200nits
JEITA 2.0: up to 20.68 hr @150nits
Local video playback: up to 19.13 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 12.03 hr @200nits
JEITA 2.0: up to 16.71 hr @150nits
Local video playback: up to 15.25 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 12.38 hr @200nits
JEITA 2.0: up to 14.37 hr @150nits
Local video playback: up to 15.2 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), AMD Ryzen 7 7730U, 8GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), AMD Ryzen 5 7530U, 16GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (non-touch), AMD Ryzen 7 7730U, 8GB DDR4, Win 11, 47Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using MobileMark 2018, JEITA 2.0, continuous 1080p video playback.
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]

- 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

**Notes:**


**DESIGN**

**Display**

**Display**[1]

<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>Refresh Rate</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>None IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light (Software)</td>
</tr>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light (Software)</td>
</tr>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>None IPS</td>
<td>300nits</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°</td>
<td>Eyesafe® Certified 2.0</td>
</tr>
<tr>
<td>16”</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>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>Eyesafe® Certified 2.0</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, numeric keypad

**Keyboard Backlight**

- LED backlight
- Non-backlight

**UltraNav™**

TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 68 x 115 mm (2.68 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**[2]

Starting at 356.1 x 247.7 x 19.85 mm (14.02 x 9.75 x 0.78 inches)

**Weight**[2]

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Aluminium (top), PC-ABS (bottom) models
Starting at 1.77 kg (3.90 lbs)

### Aluminium (top), aluminium (bottom) models
Starting at 1.81 kg (3.99 lbs)

#### Case Color
Graphite black

#### Case Material
- Aluminium (top), PC-ABS (bottom)
- 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**

Gigabit Ethernet, Realtek® RTL8111H-CG, 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth®**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- MediaTek Wi-Fi 6 MT7921, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Realtek Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- AMD Wi-Fi 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Realtek Wi-Fi 6E RTL8852CE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

**WWAN**

No support

**SIM Card**

No physical SIM card inbox

**NFC**

No support

---

**Notes:**

1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
2. Wi-Fi 6 full features might be limited by country-level restrictions.
3. Wi-Fi 6E full features might be limited by country-level restrictions.
4. 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 Ethernet (RJ-45)
- 1x HDMI 1.4b
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)

---

**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® E16 Gen 1 (AMD)

SECURITY & PRIVACY

Security

Security Chip**
- Firmware TPM 2.0 integrated in SoC
- 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
- No fingerprint reader

BIOS Security
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security
- Camera privacy shutter
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management
Non-DASH

SERVICE

Warranty[1]

Base Warranty**
- 1-year mail-in service
- 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
- No base warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

ThinkPad E16 Gen 1(AMD) - August 03 2023
Sustainability

Material
25% PCC recycled plastic used in the battery
30% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in standard 65W adapter
Low-temperature solder

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)

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).

CERTIFICATIONS

Green Certifications[1]

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- ErP Lot 26
- ErP Lot 6
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
- (Optional) Eyesafe Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland Low Blue Light (Software 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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disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.

- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. USB 2.0
2. Ethernet (RJ-45)
3. Kensington Nano Security Slot
4. USB-C 3.2 Gen 2
5. Thunderbolt 4
6. USB 3.2 Gen 1 (Always On)
7. HDMI
8. Headphone / microphone combo jack (3.5mm)
PERFORMANCE

Processor

Processor Family
13th Generation Intel® U or P Series Core™ i3 / i5 / i7 Processor

**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[1]</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[2]</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 i5-13500H</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 2.6GHz / E-core 1.9GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>18MB</td>
<td>Intel Iris Xe Graphics[3]</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[4]</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[5]</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 i7-13700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.4GHz / E-core 1.8GHz</td>
<td>P-core 5.0GHz / E-core 3.7GHz</td>
<td>24MB</td>
<td>Intel Iris Xe Graphics[6]</td>
</tr>
</tbody>
</table>

Notes:

[1], [2], [3], [4], [5], [6] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

**Operating System**

- Ubuntu Linux[1]
- Windows® 11 DG Windows 10 Pro 64[2]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>Intel Iris Xe Graphics[1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX 12.1</td>
</tr>
<tr>
<td>NVIDIA® GeForce MX550</td>
<td>Discrete</td>
<td>2GB GDDR6</td>
<td>-</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:

[1]
Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support
Monitor Support
Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)
• HDMI supports up to 4096x2160@60Hz
• USB-C supports up to 3840x2160@60Hz
• Thunderbolt supports up to 5120x2160@60Hz

Chipset
Chipset
Intel SoC (System on Chip) platform

Memory
Max Memory[1]
• Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200
• Up to 48GB (16GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots
One memory soldered to system board, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type
DDR4-3200

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage
Storage Support[2]
Up to two drives, 2x M.2 SSD
• M.2 2242 SSD up to 1TB

Storage Slot
Two M.2 slots
• One M.2 2242 PCIe® 3.0 x4 slot
• One M.2 2242 PCIe 4.0 x4 slot

Storage Type[2]
<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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] M.2 PCIe 4.0 x4 SSD in the M.2 PCIe 3.0 x4 slot is downgraded to PCIe 3.0 x4 performance.

Removable Storage
Card Reader
No card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Synaptic® CX11880 codec

Speakers
Stereo speakers, 2W x2, Dolby® Atmos®

Microphone
Dual-microphone array, Dolby Voice

Camera**
• FHD 1080p + IR hybrid, with privacy shutter, fixed focus
ThinkPad E16 Gen 1 (Intel)

- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus

**Battery**

- Integrated Li-Polymer 47Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Battery Life**[^1]

Configuration 1 (max battery life)
MobileMark® 2018: up to 10.78 hr @200nits
MobileMark 25: up to 7.36 hr with 731 performance score @250nits
JEITA 2.0: up to 13.9 hr @150nits
Local video playback: up to 12.6 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 7.5 hr @200nits
MobileMark 25: up to 6.1 hr with 720 performance score @250nits
JEITA 2.0: up to 12.9 hr @150nits
Local video playback: up to 11.9 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 7.95 hr @200nits
MobileMark 25: up to 6.16 hr with 781 performance score @250nits
JEITA 2.0: up to 13 hr @150nits
Local video playback: up to 11 hr @150nits

Notes:
[^1] Configuration 1 (max battery life): WUXGA (non-touch), Intel i3-1315U, 8GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), Intel i5-1340P, 16GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: WQXGA (non-touch), Intel i7-1355U, 40GB DDR4, NVIDIA Geforce MX550, Win 11, 57Wh 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**[^2]
- 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

Notes:

**DESIGN**

**Display**

**Display**[^3]

<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>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light (Software)</td>
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## 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, numeric keypad

### Keyboard Backlight
- LED backlight
- Non-backlight

### UltraNav™
TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 68 x 115 mm (2.68 x 4.53 inches)

## Mechanical
### Dimensions (WxDxH)[1]
Starting at 356.1 x 247.7 x 19.85 mm (14.02 x 9.75 x 0.78 inches)

### Weight[2]

<table>
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<td>Aluminium (top), PC-ABS (bottom) models</td>
<td>Starting at 1.77 kg (3.90 lbs)</td>
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<tr>
<td>Aluminium (top), aluminium (bottom) models</td>
<td>Starting at 1.81 kg (3.99 lbs)</td>
</tr>
</tbody>
</table>

### Case Color
Graphite black

### Case Material**
- Aluminium (top), PC-ABS (bottom)
- 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
Gigabit Ethernet, Intel Ethernet Connection I219-V, 1x RJ-45, supports Wake-on-LAN

#### WLAN + Bluetooth®**[1]
- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card[2]
- Realtek® Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card[3]
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[4]
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card[5]
ThinkPad E16 Gen 1 (Intel)

- Realtek Wi-Fi 6E RTL8852CE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card

WWAN
No support

SIM Card
No support

NFC
No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[2], [3], [4] Wi-Fi 6 full features might be limited by country-level restrictions.
[5], [6], [7] 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 Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB 2.0
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)

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;
USB 4 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
USB 4 40Gbps (USB 40Gbps): 40 Gbit/s;
Thunderbolt 3/4: 40 Gbit/s.

Docking

Docking
Various docking solutions supported via Thunderbolt or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® E16 Gen 1 (Intel)

SECURITY & PRIVACY

Security

Security Chip**
- Firmware TPM 2.0 integrated in SoC
- 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
- No fingerprint reader

BIOS Security
**Power-on password**

**Supervisor password**

**NVMe password**

**Self-healing BIOS**

**Other Security**

- Camera privacy shutter
- (Optional) IR camera for Windows Hello

---

**MANAGEABILITY**

**System Management**

- Intel vPro® Enterprise[^1]
- Non-vPro

**Notes:**

[^1] Intel vPro offers a superset of DASH’s defined capabilities.

---

**SERVICE**

**Warranty[^1]**

**Base Warranty**

- 1-year mail-in service
- 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
- No base warranty

**Notes:**

[^1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

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**ENVIRONMENTAL**

**Sustainability**

**Material**

- 25% PCC recycled plastic used in the battery
- 30% PCC recycled plastic used in speaker enclosure
- 90% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder

**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)

**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).
Bundled Accessories

Lenovo 15.6" laptop casual toploader, polyester, black
None

CERTIFICATIONS

Green Certifications

(Optional) ENERGY STAR® 8.0
(Optional) EPEAT™ Gold Registered[2]
ErP Lot 26
ErP Lot 6
FSC certified package
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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications

(Optional) Eyesafe Certified 2.0
(Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
(Optional) TÜV Rheinland Low Blue Light (Software Solution)

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

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OVERVIEW

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

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

Processor

Processor Family
AMD Ryzen™ 3 / 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 3 5425U</td>
<td>4</td>
<td>8</td>
<td>2.7GHz</td>
<td>4.1GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 5625U(1)</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 5675U</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 5825U(2)</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 5875U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Notes:
[1] AMD Ryzen 5 5625U is for special bid in EMEA.
[2] AMD Ryzen 7 5825U is for special bid in EMEA.

Operating System

Operating System**

- Ubuntu Linux(1)
- Windows® 11 DG Windows 10 Pro 64(2)
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1] 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 Name</th>
<th>Type</th>
<th>Memory</th>
<th>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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 3840x2160@60Hz
- USB-C supports up to 5120x2880@60Hz

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 system board, no slots, dual-channel

Memory Type
**Storage**

One drive, up to 1TB M.2 2242 SSD

**Storage Slot**

One M.2 2242 PCIe® 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0x4 due to AMD platform limitations.

**Removable Storage**

- **Optical**: None
- **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
- **Camera**
  - HD 720p, with privacy shutter, fixed focus
  - FHD 1080p, with privacy shutter, fixed focus
  - FHD 1080p + IR hybrid, with privacy shutter, fixed focus

**Battery**

Integrated Li-Polymer 46Wh 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 9.8 hr with 626 performance score @200nits
  - JEITA 2.0: up to 11.3 hr @150nits
  - Local video playback: up to 11.2 hr @150nits

- **Alternate configuration 2**
  - MobileMark 2018: up to 9.6 hr with 612 performance score @200nits
  - JEITA 2.0: up to 11.8 hr @150nits
  - Local video playback: up to 11.6 hr @150nits

- **Alternate configuration 3**
  - MobileMark 2018: up to 9.3 hr with 589 performance score @200nits
  - JEITA 2.0: up to 12.0 hr @150nits
  - Local video playback: up to 12.1 hr @150nits

Notes:

[1] Configuration 1 (max battery life): WUXGA (touch), AMD Ryzen 7 PRO 5875U, 16GB DDR4, Win 11, 46Wh battery, best power efficiency power mode

Alternate configuration 2: WUXGA (non-touch), AMD Ryzen 5 5625U, 16GB DDR4, Win 11, 46Wh battery, best power...
efficiency power mode
Alternate configuration 3: WUXGA (non-touch), AMD Ryzen 3 5425U, 8GB DDR4, Win 11, 46Wh 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**

<table>
<thead>
<tr>
<th>Power Adapter**(1)</th>
<th>45W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz(3)</td>
</tr>
<tr>
<td></td>
<td>65W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz</td>
</tr>
<tr>
<td></td>
<td>65W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz</td>
</tr>
<tr>
<td></td>
<td>65W USB-C slim (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz(4)</td>
</tr>
<tr>
<td></td>
<td>65W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz(5)</td>
</tr>
<tr>
<td></td>
<td>No power adapter(6)</td>
</tr>
</tbody>
</table>

Notes:  
[2], [3] 45W USB-C AC adapter is NOT available in EMEA.  
[4], [5] 65W USB-C slim AC adapter is NOT available in EMEA.  
[6] 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; WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>13.3&quot; 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>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>13.3&quot; 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>
<td>-</td>
</tr>
<tr>
<td>13.3&quot; 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>
<td></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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**[1]
305 x 218 x 17.3 mm (12.0 x 8.58 x 0.68 inches)

**Weight**[2]
Starting at 1.25 kg (2.76 lbs)

**Case Color**
- Storm grey
- Thunder black

**Case Material**
Aluminium (top), GFRP (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**[1]
No onboard Ethernet

**WLAN + Bluetooth®**[2,3,4,5]
- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[3] Qualcomm NFA-725A is for special bid only in EMEA.
[4], [5] 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.
[6] CAT16 is NOT available in EMEA.

**Ports**[1]

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

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 L13 Gen 3 (AMD)

Monitor Cable

Monitor Cable***
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to HDMI Adapter
• Lenovo USB-C to DisplayPort 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
• Smart card reader
• No smart card reader

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

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• Camera privacy shutter
• (Optional) IR camera for Windows Hello
• (Optional) Privacy Guard with Privacy Alert
• Glance by Mirametrix®

MANAGEABILITY

System Management
System Management

- DASH
- Non-DASH

SERVICE

Warranty\[1\]

**Base Warranty**

- 1-year courier or carry-in service
- 1-year limited onsite service
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

ENVIRONMENTAL

Sustainability

**Material**

- 50% PCC recycled plastic used in speaker enclosure
- 30% PCC recycled plastic used in the battery
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

**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)

**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 USB-C Cable 2m
- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C to USB-A Adapter
- None

CERTIFICATIONS

**Green Certifications**[1]

Green Certifications
(Optional) ENERGY STAR® 8.0
(Optional) EPEAT™ Gold Registered
ErP Lot 3
TCO Certified 9.0
RoHS compliant

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

• Feature with ** means that only one offering listed under the feature is configured on selected models.
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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Nano-SIM card slot *
2. Thunderbolt 4
3. USB 3.2 Gen 1
4. Headphone / microphone combo jack (3.5mm)
5. HDMI

6. USB 3.2 Gen 1 (Always On)
7. USB-C 3.2 Gen 2
8. Kensington Nano Security Slot
9. Smart card reader *

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

Processor

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

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 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 i5-1245U</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 i7-1255U</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 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>
</tbody>
</table>

Notes:

[1] i3-1215U is NOT available in EMEA.
[2] i5-1235U is NOT available in EMEA.
[3] i7-1255U is NOT available in EMEA.

Operating System

Operating System**

- Ubuntu Linux[1]
- Windows® 11 DG Windows 10 Pro 64[2]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1] 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>
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<th>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<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

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)

- HDMI supports up to 3840x2160@60Hz
- USB-C® supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

Chipset

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 system board, no slots, dual-channel

**Memory Type**
DDR4-3200

**Storage**

**Storage Support**
One drive, up to 1TB M.2 2242 SSD

**Storage Slot**
One M.2 2242 PCIe® 4.0 x4 slot

**Storage Type**

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
<th>Security</th>
</tr>
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<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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.

**Removable Storage**

**Optical**
None

**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

**Camera**
- HD 720p, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus

**Battery**

**Battery**
Integrated Li-Polymer 46Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

**Battery Life**

<table>
<thead>
<tr>
<th>Configuration (max battery life)</th>
<th>MobileMark® 2018: up to 8.9 hr with 629 performance score @200nits</th>
<th>JEITA 2.0: up to 14.3 hr @150nits</th>
<th>Local video playback: up to 11.9 hr @150nits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternate configuration</td>
<td>MobileMark® 2018: up to 8.7 hr with 622 performance score @200nits</td>
<td>JEITA 2.0: up to 13.7 hr @150nits</td>
<td>Local video playback: up to 11.2 hr @150nits</td>
</tr>
</tbody>
</table>
Alternate configuration 3
MobileMark 2018: up to 8.2 hr with 704 performance score @200nits
JEITA 2.0: up to 13.0 hr @150nits
Local video playback: up to 11.0 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), Intel i3-1215U, 8GB DDR4, Win 11, 46Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (non-touch), Intel i5-1245U, 16GB DDR4, Win 11, 46Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (non-touch), Intel i7-1265U, 32GB DDR4, Win 11, 46Wh 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][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[7]

Notes:
[2] No power adapter is for special bid only
45W USB-C AC adapter and 65W USB-C slim AC adapter are NOT available in EMEA.
[3], [4] 45W USB-C AC adapter is NOT available in EMEA.
[5], [6] 65W USB-C slim AC adapter is NOT available in EMEA.
[7] 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-glace</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
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<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
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<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-glace</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>
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<td>500nits</td>
<td>Anti-glace</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>
</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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**
305 x 218 x 17.3 mm (12.0 x 8.58 x 0.68 inches)

**Weight**
Starting at 1.26 kg (2.78 lbs)

**Case Color**
- Storm grey
- Thunder black

**Case Material**
Aluminium (top), GRP (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® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom LB80-GL-16, 4G LTE CAT16, M.2 card
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[3] Wi-Fi 6 full features might be limited by country-level restrictions.
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.

Fibocom L860-GL CAT16 is special bid only in EMEA.

Ports[1]

Standard Ports
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 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 1.4)

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 or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad L13 Gen 3 (Intel)

Monitor Cable

Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to HDMI Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

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

BIOS Security
- Power-on password
- Supervisor password
NVMe password
Self-healing BIOS

Other Security
- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- Glance by Mirametrix

MANAGEABILITY

System Management
- Intel vPro® Enterprise
- Non-vPro

Notes:
[1] Intel vPro offers a superset of DASH’s defined capabilities.

SERVICE

Warranty

Base Warranty**
- 1-year courier or carry-in service
- 1-year limited onsite service
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
- 50% PCC recycled plastic used in speaker enclosure
- 30% PCC recycled plastic used in the battery
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

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)

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).
Bundled Accessories

Bundled Accessories***
- Lenovo USB-C to USB-C Cable 2m
- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C to USB-A Adapter
- None

CERTIFICATIONS

Green Certifications[1]

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- ErP Lot 3
- TCO Certified 9.0
- RoHS compliant

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

- 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

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

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

**Processor**

**Processor Family**
AMD Ryzen™ 3 / 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 3 7330U</td>
<td>4</td>
<td>8</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 7530U</td>
<td>6</td>
<td>12</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 7730U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

**Operating System**

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

**Notes:**
[^1]: 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.
[^2]: Windows 11 DG Windows 10 Pro 64 is for special bid only.

**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>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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 3840x2160@60Hz
- USB-C supports up to 5120x2880@60Hz

**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 system board, no slots, dual-channel

**Memory Type**
DDR4-3200

**Storage**

**Storage Support[^3]**
One drive, up to 1TB M.2 2242 SSD

**Storage Slot**
One M.2 2242 PCIe® 3.0 x4 slot

<table>
<thead>
<tr>
<th>Storage Type (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disk Type</strong></td>
</tr>
<tr>
<td>M.2 2242 SSD</td>
</tr>
</tbody>
</table>

Notes:
[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
[2] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0 x4 due to AMD platform limitations.

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, far-field, Dolby Voice

Camera
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus

Battery

Integrated Li-Polymer 46Wh 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 10.65 hr with 574 performance score @250nits
JEITA 2.0: up to 15.16 hr @150nits
Local video playback: up to 13.65 hr @150nits

Alternate configuration 2
MobileMark 25: up to 9.12 hr with 546 performance score @250nits
JEITA 2.0: up to 12.59 hr @150nits
Local video playback: up to 11.79 hr @150nits

Alternate configuration 3
MobileMark 25: up to 9.06 hr with 503 performance score @250nits
JEITA 2.0: up to 13.14 hr @150nits
Local video playback: up to 12.13 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), AMD Ryzen 7 PRO 7730U, 16GB DDR4, Win 11, 46Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (non-touch), AMD Ryzen 5 7530U PRO, 16GB DDR4, Win 11, 46Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (touch), AMD Ryzen 3 7330U, 8GB DDR4, Win 11, 46Wh 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**[1]**

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<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch</th>
<th>Type</th>
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<th>Contrast Ratio</th>
<th>Color Gamut</th>
<th>Refresh Rate</th>
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<th>Key Features</th>
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<tbody>
<tr>
<td>13.3&quot; WUXGA</td>
<td>(1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
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<td>13.3&quot; WUXGA</td>
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<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89°/89°/89°/89°</td>
<td>Low power, TÜV Low Blue Light</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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**

305 x 218 x 17.23 mm (12.0 x 8.58 x 0.68 inches)

**Weight**

Starting at 1.26 kg (2.78 lbs)

**Case Color**
ThinkPad L13 Gen 4 (AMD)

- Storm grey
- Thunder black

**Case Material**
Aluminium (top), GFRP (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**[1]
No onboard Ethernet

**WLAN + Bluetooth®**[2,3]
AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- Quectel EM05-G, 4G LTE CAT4, 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] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

[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**[1]

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

**Optional Ports**[**3**]
- 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® L13 Gen 4 (AMD)

Monitor Cable

Monitor Cable

• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to HDMI Adapter
• Lenovo USB-C to DisplayPort 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
• Smart card reader
• No smart card reader

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

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• Camera privacy shutter
• (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management
• DASH
• Non-DASH

SERVICE

Warranty

Base Warranty
• 1-year courier or carry-in service
• 1-year limited onsite service
• 3-year (1-yr battery) courier or carry-in service
• 3-year (1-yr battery) limited onsite service

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific
model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
30% PCC recycled plastic used in top cover frame material
50% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery pack
90% PCC recycled plastic used in standard adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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 USB-C Cable 2m
- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C to USB-A Adapter
- None

CERTIFICATIONS

Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- ErP Lot 26
- ErP Lot 6
- 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 is registered where applicable, please see https://www.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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OVERVIEW

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

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

Processor

Processor Family
13th Generation Intel® U 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>Processor 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 i5-1345U</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 i7-1365U</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>
</tbody>
</table>

Operating System

Operating System

- Ubuntu Linux[^1]
- Windows® 11 DG Windows 10 Pro 64[^2]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[^1] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<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

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

Chipset

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] Installed memory is actually 6400MHz but run at 4800MHz due to platform limitation.

Storage
Storage Support
One drive, up to 1TB M.2 2242 SSD

Storage Slot
One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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.

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, far-field, Dolby Voice

Camera
• 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 46Wh 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 10.61 hr with 621 performance score @250nits
JEITA 2.0: up to 20.03 hr @150nits
Local video playback: up to 16.71 hr @150nits

Alternate configuration 2
MobileMark 25: up to 10.16 hr with 705 performance score @250nits
JEITA 2.0: up to 16.21 hr @150nits
Local video playback: up to 14.9 hr @150nits

Alternate configuration 3
MobileMark 25: up to 9.6 hr with 709 performance score @250nits
JEITA 2.0: up to 14.21 hr @150nits
Local video playback: up to 12.9 hr @150nits

Notes:
**Configuration 1 (max battery life):** WUXGA (non-touch), Intel i3-1315U, 8GB LPDDR5, Win 11, 46Wh battery, best power efficiency power mode

**Alternate configuration 2:** WUXGA (touch), Intel i5-1345U, 16GB LPDDR5, Win 11, 46Wh battery, best power efficiency power mode

**Alternate configuration 3:** WUXGA (touch), Intel i7-1365U, 32GB LPDDR5, Win 11, 46Wh 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**

- 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</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</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</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>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°</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>60Hz</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>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89°/89°/89°/89°</td>
<td>Low power, TÜV Low Blue Light</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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

### Mechanical

**Dimensions (WxDxH)**
305 x 218 x 17.23 mm (12.0 x 8.58 x 0.68 inches)

**Weight**
Starting at 1.26 kg (2.78 lbs)

**Case Color**
- Storm grey
- Thunder black

**Case Material**
Aluminium (top), GFRP (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®**
- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- Quectel EM05-G, 4G LTE CAT4, 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. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
3. Wi-Fi 6 full features might be limited by country-level restrictions.
4. Wi-Fi 6E full features might be limited by country-level restrictions.

**Ports**

**Standard Ports**
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 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 1.4)

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 or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® L13 Gen 4 (Intel)

Monitor Cable
Monitor Cable**
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to HDMI Adapter
• Lenovo USB-C to DisplayPort 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
• Smart card reader
• No smart card reader

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

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• Camera privacy shutter
• (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management
System Management
• Intel vPro® Enterprise[1]
• Non-vPro
Notes:
[1] 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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/ To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
30% PCC recycled plastic used in top cover frame material
50% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery pack
90% PCC recycled plastic used in standard adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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 USB-C Cable 2m
• Lenovo USB-C to Ethernet Adapter
• Lenovo USB-C to USB-A Adapter
• None

CERTIFICATIONS

Green Certifications

ThinkPad L13 Gen 4 (Intel) - July 18 2023
Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered\(^2\)
- ErP Lot 26
- ErP Lot 6
- 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.

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Other Certifications

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

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

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## OVERVIEW

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

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

Processor

Processor Family
AMD Ryzen™ 3 / 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 3 5425U</td>
<td>4</td>
<td>8</td>
<td>2.7GHz</td>
<td>4.1GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 5625U[^1]</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 5675U</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 5825U[^2]</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 5875U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Notes:
[^1] AMD Ryzen 5 5625U is for special bid in EMEA.
[^2] AMD Ryzen 7 5825U is for special bid in EMEA.

Operating System

Operating System**

- Ubuntu Linux[^1]
- Windows® 11 DG Windows 10 Pro 64[^2]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[^1] 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.

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 3840x2160@60Hz
- USB-C supports up to 5120x2880@60Hz

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
Storage

Storage Support
One drive, up to 1TB M.2 2242 SSD

Storage Slot
One M.2 2242 PCIe® 3.0 x4 slot

Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
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<td>M.2 2242 SSD</td>
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<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] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0x4 due to AMD platform limitations.

Removable Storage

Optical
None

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

Camera **
- Front HD 720p, with privacy shutter, fixed focus
- Front HD 720p, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus
- Front FHD 1080p, with privacy shutter, fixed focus
- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- Front FHD 1080p, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus
- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus

Battery

Battery
Integrated Li-Polymer 46Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

Battery Life[3]
Configuration 1 (max battery life)
MobileMark® 2018: up to 9.8 hr with 628 performance score @200nits
JEITA 2.0: up to 11.7 hr @150nits
Local video playback: up to 11.5 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 9.7 hr with 623 performance score @200nits
JEITA 2.0: up to 12.1 hr @150nits
Local video playback: up to 12.1 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 9.4 hr with 590 performance score @200nits
JEITA 2.0: up to 12.5 hr @150nits
Local video playback: up to 12.5 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (touch), AMD Ryzen 7 PRO 5875U, 16GB DDR4, Win 11, 46Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), AMD Ryzen 5 5625U, 16GB DDR4, Win 11, 46Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (touch), AMD Ryzen 3 5425U, 8GB DDR4, Win 11, 46Wh 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**

- 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

Notes:
[2], [3] 45W USB-C AC adapter is NOT available in EMEA.
[4], [5] 65W USB-C slim AC adapter is NOT available in EMEA.

**DESIGN**

**Display**

- WUXGA (1920x1200)
- Multi-touch
- IPS
- 300nits
- Anti-reflection, anti-smudge
- 16:10
- 1000:1
- 100% sRGB
- 85°/85°/85°/85°

- WUXGA (1920x1200)
- Multi-touch
- IPS
- 500nits
- Anti-glare, anti-smudge
- 16:10
- 1000:1
- 72% NTSC
- 85°/85°/85°/85°

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

**Multi-mode**

- Laptop, tent, stand, and tablet modes supported by 360° hinge

**Input Device**

- Lenovo Integrated Pen, with built-in rechargeable battery, 4096 levels of pressure sensitivity, on-board garaged and rechargeable
- No pen

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

**Keyboard Backlight**
- LED backlight
- Non-backlight

**UltraNav™**
TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Notes:
[1] Customer needs to purchase an external pen separately.

**Mechanical**

**Dimensions (WxDxH)**
305 x 218 x 17.1 mm (12.0 x 8.58 x 0.67 inches)

**Weight**
Starting at 1.31 kg (2.89 lbs)

**Case Color**
- Storm grey
- Thunder black

**Case Material**
Aluminium (top), GFRP (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®**
- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[4]

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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.
[4] Qualcomm NFA-725A is for special bid only in EMEA.
CAT16 is NOT available in EMEA.

**Ports**

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

*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 USB-C. For more compatible docking solutions, please visit [Docking for ThinkPad L13 Yoga® Gen 3 (AMD)](https://example.com)

**Monitor Cable**

**Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to HDMI Adapter
- Lenovo USB-C to DisplayPort 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**
- Smart card reader
- No smart card reader

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

**BIOS Security**
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

**Other Security**
- Camera privacy shutter
MANAGEABILITY

System Management

System Management
• DASH
• Non-DASH

SERVICE

Warranty

Base Warranty**
• 1-year courier or carry-in service
• 1-year limited onsite service
• 3-year (1-yr battery) courier or carry-in service
• 3-year (1-yr battery) limited onsite service

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
50% PCC recycled plastic used in speaker enclosure
30% PCC recycled plastic used in the battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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

Lenovo USB-C to USB-C Cable 2m
Lenovo USB-C to Ethernet Adapter
Lenovo USB-C to USB-A Adapter
CERTIFICATIONS

Green Certifications

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

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

• 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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OVERVIEW

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

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

Processor

Processor Family
12th Generation Intel® 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>Processor 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 i5-1245U</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 i7-1255U</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 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>
</tbody>
</table>

Notes:
[1] i3-1215U is NOT available in EMEA.
[2] i5-1235U is NOT available in EMEA.
[3] i7-1255U is NOT available in EMEA.

Operating System

Operating System**
- Ubuntu Linux[1]
- Windows® 11 DG Windows 10 Pro 64[2]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<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
Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

Chipset

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**
DDR4-3200

**Storage**

**Storage Support**
One drive, up to 1TB M.2 2242 SSD

**Storage Slot**
One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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.

**Removable Storage**

**Optical**
None

**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

**Camera**
- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus
- Front FHD 1080p, with privacy shutter, fixed focus
- Front FHD 1080p, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus
- Front HD 720p, with privacy shutter, fixed focus
- Front HD 720p, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus

**Battery**

**Battery**
Integrated Li-Polymer 46Wh 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 8.6 hr with 733 performance score @200nits
- JEITA 2.0: up to 13.5 hr @150nits
- Local video playback: up to 11.6 hr @150nits

**Alternate configuration 2**
- MobileMark 2018: up to 8.4 hr with 703 performance score @200nits
JEITA 2.0: up to 13.2 hr @150nits  
Local video playback: up to 10.9 hr @150nits  

Alternate configuration 3  
MobileMark 2018: up to 8.0 hr with 760 performance score @200nits  
JEITA 2.0: up to 12.9 hr @150nits  
Local video playback: up to 10.6 hr @150nits  

Notes:

[1] Configuration 1 (max battery life): WUXGA (touch), Intel i3-1215U, 8GB DDR4, Win 11, 46Wh battery, best power efficiency power mode  
Alternate configuration 2: WUXGA (touch), Intel i5-1245U, 16GB DDR4, Win 11, 46Wh battery, best power efficiency power mode  
Alternate configuration 3: WUXGA (touch), Intel i7-1265U, 32GB DDR4, Win 11, 46Wh 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**[2]  
- 45W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz[2]  
- 45W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz[3]  
- 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[4]  
- 65W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz[5]  

Notes:  
[2], [3] 45W USB-C AC adapter is NOT available in EMEA.  
[4], [5] 65W USB-C slim AC adapter is NOT available in EMEA.

DESIGN  

Display

Display**[1]  

<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>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</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>500nits</td>
<td>Anti-glare, anti-smudge</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>
</tbody>
</table>

Touchscreen  
OGS (One Glass Solution) multi-touch, supports 10-point touch  

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

Multi-mode  
Multi-mode
Laptop, tent, stand, and tablet modes supported by 360° hinge

**Input Device**

**Pen**
- Lenovo Integrated Pen, with built-in rechargeable battery, 4096 levels of pressure sensitivity, on-board garaged and rechargeable
- No pen[1]

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

**Keyboard Backlight**
- LED backlight
- Non-backlight

**UltraNav™**
TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Notes:**
[1] Customer needs to purchase an external pen separately.

**Mechanical**

**Dimensions (WxDxH)**[3]
305 x 218 x 17.1 mm (12.0 x 8.58 x 0.67 inches)

**Weight**[2]
Starting at 1.32 kg (2.92 lbs)

**Case Color**
- Storm grey
- Thunder black

**Case Material**
Aluminium (top), GFRP (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**[1]
No onboard Ethernet

**WLAN + Bluetooth®**[2]
- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[5]
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[6]

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[3] Wi-Fi 6 full features might be limited by country-level restrictions.
[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.
[5] Fibocom L860-GL CAT16 is special bid only in EMEA.

Ports

Standard Ports
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 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 1.4)

Optional Ports
- 1x Smart card reader
- 1x Nano-SIM card slot (WWAN support models)

Docking

Various docking solutions supported via Thunderbolt or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad L13 Yoga Gen 3 (Intel)

Monitor Cable

Monitor Cable
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to HDMI Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

Fingerprint Reader
- Touch style fingerprint reader integrated in power button, match-on-chip
ThinkPad L13 Yoga Gen 3 (Intel)

- No fingerprint reader

**BIOS Security**
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

**Other Security**
- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- Glance by Mirametrix®

**MANAGEABILITY**

**System Management**

System Management
- Intel vPro® Enterprise
- Non-vPro

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

**SERVICE**

**Warranty**

Base Warranty
- 1-year courier or carry-in service
- 1-year limited onsite service
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

**ENVIRONMENTAL**

**Sustainability**

Material
- 50% PCC recycled plastic used in speaker enclosure
- 30% PCC recycled plastic used in the battery
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

**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)

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 USB-C Cable 2m
- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C to USB-A Adapter
- None

CERTIFICATIONS

Green Certifications[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- 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.

[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

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### OVERVIEW

<table>
<thead>
<tr>
<th></th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nano-SIM card slot *</td>
</tr>
<tr>
<td>2</td>
<td>USB-C 3.2 Gen 2</td>
</tr>
<tr>
<td>3</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>4</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>5</td>
<td>Pen slot *</td>
</tr>
<tr>
<td>6</td>
<td>HDMI</td>
</tr>
<tr>
<td>7</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>8</td>
<td>USB-C 3.2 Gen 2</td>
</tr>
<tr>
<td>9</td>
<td>Kensington Nano Security Slot</td>
</tr>
<tr>
<td>10</td>
<td>Smart card reader *</td>
</tr>
</tbody>
</table>

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

Processor

Processor Family
AMD Ryzen™ 3 / 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 3 7330U</td>
<td>4</td>
<td>8</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 7530U</td>
<td>6</td>
<td>12</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 7730U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**

- Ubuntu Linux\[1\]
- Windows® 11 DG Windows 10 Pro 64\[2\]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
\[1\] 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.
\[2\] Windows 11 DG Windows 10 Pro 64 is for special bid only.

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>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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 3840x2160@60Hz
- USB-C supports up to 5120x2880@60Hz

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
DDR4-3200

Storage

Storage Support\[3\]
One drive, up to 1TB M.2 2242 SSD

Storage Slot
One M.2 2242 PCIe® 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0 x4 due to AMD platform limitations.

**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, far-field, Dolby Voice

**Camera**
- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus
- Front FHD 1080p, with privacy shutter, fixed focus
- Front FHD 1080p, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus
- Front HD 720p, with privacy shutter, fixed focus
- Front HD 720p, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus

**Battery**

**Battery**
Integrated Li-Polymer 46Wh 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 10.91 hr with 572 performance score @250nits
  - JEITA 2.0: up to 15.07 hr @150nits
  - Local video playback: up to 13.57 hr @150nits

- **Alternate configuration 2**
  - MobileMark 25: up to 9.65 hr with 544 performance score @250nits
  - JEITA 2.0: up to 13.05 hr @150nits
  - Local video playback: up to 12.28 hr @150nits

- **Alternate configuration 3**
  - MobileMark 25: up to 9.29 hr with 508 performance score @250nits
  - JEITA 2.0: up to 13.5 hr @150nits
  - Local video playback: up to 12.71 hr @150nits

**Notes:**

[1] Configuration 1 (max battery life): WUXGA (touch), AMD Ryzen 7 PRO 7730U, 16GB DDR4, Win 11, 46Wh battery, best power efficiency power mode

Alternate configuration 2: WUXGA (touch), AMD Ryzen 5 7530U PRO, 16GB DDR4, Win 11, 46Wh battery, best power efficiency power mode

Alternate configuration 3: WUXGA (touch), AMD Ryzen 3 7330U, 8GB DDR4, Win 11, 46Wh 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

Notes:


### 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>Refresh Rate</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
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<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>300nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>Low power, TÜV Low Blue Light</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>400nits</td>
<td>Anti-glare, anti-smudge</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89°/89°/89°/89°</td>
<td></td>
</tr>
</tbody>
</table>

**Touchscreen**
OGS (One Glass Solution) multi-touch, supports 10-point touch

Notes:

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

### Multi-mode

**Multi-mode**
Laptop, tent, stand, and tablet modes supported by 360° hinge

### Input Device

**Pen**
- Lenovo Integrated Pen, with built-in rechargeable battery, 4096 levels of pressure sensitivity, on-board garaged and rechargeable
- No pen[1]

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

**Keyboard Backlight**
- LED backlight
- Non-backlight

**UltraNav™**
TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Notes:
Customer needs to purchase an external pen separately.

**Mechanical**

**Dimensions (WxDxH)**

305 x 218 x 17.06 mm (12.0 x 8.58 x 0.67 inches)

**Weight**

Starting at 1.31 kg (2.89 lbs)

**Case Color**

- Storm grey
- Thunder black

**Case Material**

Aluminium (top), GFRP (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®**

- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**

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

**SIM Card**

- No physical SIM card inbox

**NFC**

- No support

---

**Notes:**

[1] Ethernet support via optional Lenovo USB-C to Ethernet Adapter.

[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

[3] Wi-Fi 6E full features might be limited by country-level restrictions.

Wi-Fi 6E is only enabled on Windows 11 and enables 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 HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)

**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® L13 Yoga® Gen 4 (AMD)

Monitor Cable

Monitor Cable

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to HDMI Adapter
- Lenovo USB-C to DisplayPort 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

- Smart card reader
- No smart card reader

Fingerprint Reader

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

BIOS Security

- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management

- DASH
- Non-DASH

SERVICE
**Warranty**

**Base Warranty**
- 1-year courier or carry-in service
- 1-year limited onsite service
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

**ENVIRONMENTAL**

**Sustainability**

**Material**
- 30% PCC recycled plastic used in top cover frame material
- 50% PCC recycled plastic used in speaker enclosure
- 90% PCC recycled plastic used in the battery pack
- 90% PCC recycled plastic used in standard adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

**Operating Environment**

**Temperature**
- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without packaging: 5°C (41°F) to 43°C (109°F)

**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 USB-C Cable 2m
- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C to USB-A Adapter
- None

**CERTIFICATIONS**

**Green Certifications**

**Green Certifications**
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- ErP Lot 26
- ErP Lot 6
- 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 is registered where applicable, please see https://www.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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

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

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

Processor

Processor Family
13th Generation Intel® U 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>Processor 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 i5-1345U</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 i7-1365U</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>
</tbody>
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Operating System

Operating System

- Ubuntu Linux
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1] 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 Type</th>
<th>Memory</th>
<th>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
</tr>
<tr>
<td>Intel Iris Xe Graphics</td>
<td>Integrated</td>
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</tr>
</tbody>
</table>

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)

- HDMI supports up to 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

Chipset

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 system board, no slots, dual-channel

Memory Type
LPDDR5-4800

Notes:
[1] Installed memory is actually 6400MHz but run at 4800MHz due to platform limitation.

Storage

Storage Support
One drive, up to 1TB M.2 2242 SSD

Storage Slot
One M.2 2242 PCIe® 4.0 x4 slot

Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
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</tr>
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</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, far-field, Dolby Voice

Camera

- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus
- Front FHD 1080p, with privacy shutter, fixed focus
- Front FHD 1080p, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus
- Front HD 720p, with privacy shutter, fixed focus
- Front HD 720p, with privacy shutter, fixed focus; rear 5.0-megapixel, autofocus

Battery

Battery
Integrated Li-Polymer 46Wh 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 10.76 hr with 628 performance score @250nits
JEITA 2.0: up to 20.83 hr @150nits
Local video playback: up to 16.23 hr @150nits

Alternate configuration 2
MobileMark 25: up to 10.25 hr with 569 performance score @250nits
JEITA 2.0: up to 15.33 hr @150nits
Local video playback: up to 13.3 hr @150nits

Alternate configuration 3
MobileMark 25: up to 9.35 hr with 726 performance score @250nits
JEITA 2.0: up to 13.28 hr @150nits
Local video playback: up to 11.57 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (touch), Intel i3-1315U, 8GB LPDDR5, Win 11, 46Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), Intel i5-1345U, 16GB LPDDR5, Win 11, 46Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (touch), Intel i7-1365U, 32GB LPDDR5, Win 11, 46Wh 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

- 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

Notes:

DESIGN

Display

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<th>Resolution</th>
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<td>Multi-touch</td>
<td>IPS</td>
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<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
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<td>13.3&quot;</td>
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Touchscreen

OGS (One Glass Solution) multi-touch, supports 10-point touch

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

Multi-mode

Multi-mode

Laptop, tent, stand, and tablet modes supported by 360° hinge

Input Device

Pen

- Lenovo Integrated Pen, with built-in rechargeable battery, 4096 levels of pressure sensitivity, on-board garaged and
rechargeable

No pen\(^1\)

Keyboard

6-row, spill-resistant, multimedia Fn keys with Unified Communications controls

Keyboard Backlight

• LED backlight
• Non-backlight

UltraNav\(^{TM}\)

TrackPoint\(^{®}\) pointing device and Mylar\(^{®}\) surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Notes:

\(^1\) Customer needs to purchase an external pen separately.

Mechanical

Dimensions (WxDxH)\(^3\)

305 x 218 x 17.06 mm (12.0 x 8.58 x 0.67 inches)

Weight\(^2\)

Starting at 1.32 kg (2.92 lbs)

Case Color\(^{**}\)

• Storm grey
• Thunder black

Case Material

Aluminium (top), GFRP (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\(^1\)

No onboard Ethernet

WLAN + Bluetooth\(^{®}^{**}\)\(^2\)

• Intel Wi-Fi\(^{®}\) 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1\(^3\)
• Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1\(^4\)

WWAN\(^{**}\)

• Wireless WAN upgradable to 4G (with antenna ready)
• Fibocom L860-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
• Quectel EM05-G, 4G LTE CAT4, 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.
\(^2\) Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
\(^3\) Wi-Fi 6 full features might be limited by country-level restrictions.
\(^4\) 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 HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4* 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 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 1.4)

**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 Thunderbolt or USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad® L13 Yoga® Gen 4 (Intel)](https://www.lenovo.com)

**Monitor Cable**

**Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to HDMI Adapter
- Lenovo USB-C to DisplayPort 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**
- Smart card reader
- No smart card reader

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

**BIOS Security**
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS
Other Security
- Camera privacy shutter
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management
- Intel vPro® Enterprise
- Non-vPro

Notes:
1. 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

Notes:
1. The warranty upgrades may be bundled with some models, please check the "included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
- 30% PCC recycled plastic used in top cover frame material
- 50% PCC recycled plastic used in speaker enclosure
- 90% PCC recycled plastic used in the battery pack
- 90% PCC recycled plastic used in standard adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

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)

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 USB-C Cable 2m
- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C to USB-A Adapter
- None

CERTIFICATIONS

Green Certifications

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- ErP Lot 26
- ErP Lot 6
- 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 is registered where applicable, please see https://www.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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The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

1. Ethernet (RJ-45)  
2. USB-C 3.2 Gen 1  
3. USB-C 3.2 Gen 2  
4. HDMI  
5. USB 3.2 Gen 1 (Always On)  
6. Headphone / microphone combo jack (3.5mm)  
7. Smart card reader *  
8. microSD card reader  
9. USB 3.2 Gen 1  
10. Kensington Nano Security Slot  
11. Nano-SIM card slot (WWAN model) *

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

Processor

Processor Family
AMD Ryzen™ 3 / 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 3 5425U[2]</td>
<td>4</td>
<td>8</td>
<td>2.7GHz</td>
<td>4.1GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 3 PRO 5475U</td>
<td>4</td>
<td>8</td>
<td>2.7GHz</td>
<td>4.1GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 5625U[3]</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 5675U</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 5825U[4]</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 5875U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Notes:
[1] AMD Ryzen 3 5425U, Ryzen 5 5625U, and Ryzen 7 5825U are for special bid in EMEA.
[2] AMD Ryzen 3 5425U is for special bid in EMEA.
[3] AMD Ryzen 5 5625U is for special bid in EMEA.
[4] AMD Ryzen 7 5825U is for special bid in EMEA.

Operating System

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

Notes:
[1], [2] 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>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory[1]
Up to 64GB DDR4-3200

Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable

**Memory Type**
DDR4-3200

**Notes:**
[1] The max memory is based on the test results with current Lenovo® memory offerings.

**Storage**

**Storage Support[1]**
One drive, up to 1TB M.2 2242 SSD

**Storage Slot**
One M.2 2242 PCIe® 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 3.0 x4</td>
<td>128GB</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4[2]</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] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0x4 due to AMD platform limitations.

**Removable Storage**

**Optical**
None

**Card Reader**
microSD 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

**Camera**
- 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 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 63Wh battery

**Battery Life[1]**
Configuration 1 (max battery life)
MobileMark® 2018: up to 12.6 hr with 717 performance score @200nits
JEITA 2.0: up to 15.4 hr @150nits
Local video playback: up to 13.7 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 11.1 hr with 633 performance score @200nits
JEITA 2.0: up to 14.3 hr @150nits
Local video playback: up to 12.3 hr @150nits
Alternate configuration 3  
MobileMark 2018: up to 10.1 hr with 577 performance score @200nits  
JEITA 2.0: up to 13.3 hr @150nits  
Local video playback: up to 12.0 hr @150nits

Notes:
[1] Configuration 1 (max battery life): HD (non-touch), AMD Ryzen 7 PRO 5875U, 8GB DDR4, Win 11, 57Wh battery, best power efficiency power mode  
Alternate configuration 2: FHD (touch), AMD Ryzen 5 PRO 5675U, 32GB DDR4, Win 11, 57Wh battery, best power efficiency power mode  
Alternate configuration 3: FHD (touch), AMD Ryzen 3 PRO 5475U, 64GB DDR4, Win 11, 57Wh 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, 3] 45W USB-C AC adapter is NOT available in EMEA.  
[4, 5] 65W USB-C slim AC adapter is NOT available in EMEA.  
[6] 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&quot;</td>
<td>HD (1366x768)</td>
<td>None</td>
<td>TN</td>
<td>220nits</td>
<td>Anti-glace</td>
<td>16:9</td>
<td>500:1</td>
<td>45% NTSC</td>
<td>45°/45°/15°/35°</td>
<td>-</td>
</tr>
<tr>
<td>14&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>250nits</td>
<td>Anti-glace</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>14&quot;</td>
<td>FHD (1920x1080)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glace</td>
<td>16:9</td>
<td>1000:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>14&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-glace</td>
<td>16:9</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power</td>
</tr>
</tbody>
</table>

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

Notes:
[1] Display with HD TN is for special bid in EMEA.  
Display with FHD 100% sRGB is for special bid in EMEA.
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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

**Dimensions (Wx Dx H)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium (top), PC-CF (bottom) models</td>
<td>325.4 x 217 x 18.73 mm (12.81 x 8.54 x 0.74 inches)</td>
</tr>
<tr>
<td>Aluminium (top), PC-ABS (bottom) models</td>
<td>325.4 x 217 x 18.93 mm (12.81 x 8.54 x 0.75 inches)</td>
</tr>
<tr>
<td>PC-ABS (top), PC-CF (bottom) models</td>
<td>325.4 x 217 x 19.63 mm (12.81 x 8.54 x 0.77 inches)</td>
</tr>
<tr>
<td>PC-ABS (top), PC-ABS (bottom) models</td>
<td>325.4 x 217 x 19.83 mm (12.81 x 8.54 x 0.78 inches)</td>
</tr>
</tbody>
</table>

**Weight**

Starting at 1.39 kg (3.06 lbs)

**Case Color**

Thunder black

**Case Material**

- Aluminium (top), PC-ABS (bottom)
- Aluminium (top), PC-CF (bottom)
- PC-ABS (top), PC-ABS (bottom)
- PC-ABS (top), PC-CF (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], [4] Aluminium top cover is NOT available in EMEA.

**CONNECTIVITY**

**Network**

**Ethernet**

- Gigabit Ethernet, Realtek RTL8111EPV (DASH models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Realtek RTL8111HN (non-DASH models), 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth®**

- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Qualcomm® Wi-Fi 6E QCNFA765, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

**WWAN**

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

**SIM Card**

- Gemalto eSIM card (physical)
- No physical SIM card inbox
NFC

- Near Field Communication\(^4\)
- No support

Notes:

\(^1\) Qualcomm QCNFA765 is NOT available in EMEA.
\(^2\), \(^3\) Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
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.
\(^4\) NFC is for special bid in EMEA.

Ports\(^1\)

**Standard Ports**
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
- 1x microSD card reader

**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® L14 Gen 3 (AMD)

Monitor Cable

**Monitor Cable**

- Lenovo HDMI to DP Monitor Adapter
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
ThinkPad L14 Gen 3 (AMD)

Smart Card Reader
- Smart card reader
- No smart card reader

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

BIOS Security
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security
- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- Glance by Mirametrix®

MANAGEABILITY

System Management
System Management
- DASH
- Non-DASH

SERVICE

Warranty[^1]
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

Notes:
[^1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
50% PCC recycled plastic used in speaker enclosure
30% PCC recycled plastic used in the battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

Operating Environment
Temperature[^2]
- 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)

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).

CERTIFICATIONS

Green Certifications

Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• ErP Lot 3
• RoHS compliant
• TCO Certified

Notes:
[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

• 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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Ethernet (RJ-45)  
2. USB-C 3.2 Gen 1  
3. Thunderbolt 4  
4. HDMI  
5. USB 3.2 Gen 1 (Always On)  
6. Headphone / microphone combo jack (3.5mm)  
7. Smart card reader *  
8. microSD card reader  
9. USB 3.2 Gen 1  
10. Kensington Nano Security Slot  
11. Nano-SIM card slot *

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

**Processor**

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

**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>Pentium Gold 8505</td>
<td>5 (1 P-core + 4 E-core)</td>
<td>6</td>
<td>P-core 1.2GHz / E-core 0.9GHz</td>
<td>P-core 4.4GHz / E-core 3.3GHz</td>
<td>8MB</td>
<td>Intel UHD Graphics</td>
</tr>
<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 i7-1255U</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 i7-1260P</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>
</tbody>
</table>

Notes:
[1] Intel P series processors are for special bid only in EMEA.
[2], [3], [4], [5], [6], [7], [8] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

**Operating System**

**Operating System**

- Linux
- Ubuntu Linux
- Windows® 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<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

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)

- HDMI supports up to 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

**Chipset**

Chipset

Intel SoC (System on Chip) platform

**Memory**

Max Memory

Up to 64GB DDR4-3200

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type

DDR4-3200

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

**Storage**

Storage Support

One drive, up to 1TB M.2 2242 SSD

Storage Slot

One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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.

**Removable Storage**

Card Reader

microSD 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

Camera

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus
**Battery**

- Integrated Li-Polymer 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 63Wh battery

**Battery Life**

**Configuration 1 (max battery life)**
- MobileMark® 2018: up to 12.1 hr with 832 performance score @200nits
- JEITA 2.0: up to 18.2 hr @150nits
- Local video playback: up to 20.8 hr @150nits

**Alternate configuration 2**
- MobileMark 2018: up to 10.3 hr with 999 performance score @200nits
- JEITA 2.0: up to 14.9 hr @150nits
- Local video playback: up to 16.1 hr @150nits

** Alternate configuration 3**
- MobileMark 2018: up to 6.7 hr with 994 performance score @200nits
- JEITA 2.0: up to 9.7 hr @150nits
- Local video playback: up to 10.3 hr @150nits

**Notes:**

1. Configuration 1 (max battery life): FHD (non-touch), Intel i3-1215U, 4GB DDR4, Win 10, 57Wh battery, best power efficiency power mode
2. Alternate configuration 2: FHD (touch), Intel i5-1250P, 16GB DDR4, Win 10, 57Wh battery, best power efficiency power mode
3. Alternate configuration 3: FHD (non-touch), Intel i7-1260P, 64GB DDR4, Win 10, 42Wh 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**

- 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:**

1. AC adapter offerings depend on the country.
2. No power adapter is for special bid only.
3. 45W USB-C AC adapter and 65W USB-C slim AC adapter are NOT available in EMEA.
4. 45W USB-C AC adapter is NOT available in EMEA.
5. 65W USB-C slim AC adapter is NOT available in EMEA.
6. No power adapter is for special bid only.
### Touchscreen
- On-cell multi-touch, supports 10-point touch
- Non-touch

**Notes:**
- [1] Display with HD TN is for special bid in EMEA.
- Display with FHD 100% sRGB is for special bid in EMEA.
- [2], [3], [4] 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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

### Mechanical
**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium (top), PC-CF (bottom) models</td>
<td>325.4 x 217 x 18.73 mm (12.81 x 8.54 x 0.74 inches)</td>
</tr>
<tr>
<td>Aluminium (top), PC-ABS (bottom) models</td>
<td>325.4 x 217 x 18.93 mm (12.81 x 8.54 x 0.75 inches)</td>
</tr>
<tr>
<td>PC-ABS (top), PC-CF (bottom) models</td>
<td>325.4 x 217 x 19.63 mm (12.81 x 8.54 x 0.77 inches)</td>
</tr>
<tr>
<td>PC-ABS (top), PC-ABS (bottom) models</td>
<td>325.4 x 217 x 19.83 mm (12.81 x 8.54 x 0.78 inches)</td>
</tr>
</tbody>
</table>

**Weight**
Starting at 1.39 kg (3.06 lbs)

**Case Color**
Thunder black

**Case Material**
- Aluminium (top), PC-ABS (bottom) [3]
- Aluminium (top), PC-CF (bottom) [4]
- PC-ABS (top), PC-ABS (bottom)
- PC-ABS (top), PC-CF (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], [4] Aluminium top cover is NOT available in EMEA.

### CONNECTIVITY
**Network**

**Ethernet**
Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth®**[1][2]
- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[2]
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]
- Qualcomm Wi-Fi 6E QCNFA765, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[4]
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[5]
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[6]
- No WLAN and Bluetooth

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- No support

**SIM Card**
- Gemalto eSIM card (physical)
- No physical SIM card inbox

**NFC**
- Near Field Communication[8]
- No support

---

**Notes:**

[1] Qualcomm QCNFA725 and Qualcomm QCNFA765 are NOT available in EMEA.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6 full features might be limited by country-level restrictions.
[3], [4], [5], [6] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations. 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.

[7] CAT16 is NOT available in EMEA.
[8] NFC is for special bid in EMEA.

---

**Ports**[1]

**Standard Ports**
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
- 1x microSD card reader

**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 Thunderbolt or USB-C. For more compatible docking solutions, please visit Docking for ThinkPad® L14 Gen 3 (Intel).

Monitor Cable

Monitor Cable***
- Lenovo HDMI to DP Monitor Adapter
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

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

BIOS Security
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security
- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- Glance by Mirametrix®
- Tile ready

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[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
50% PCC recycled plastic used in speaker enclosure
25-30% PCC recycled plastic used in the battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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 109°C (220°F)

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).

CERTIFICATIONS

Green Certifications[1]

Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• ErP Lot 3
• RoHS compliant
• TCO Certified

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

• 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
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OVERVIEW

1. Ethernet (RJ-45)  
2. USB-C 3.2 Gen 2  
3. USB-C 3.2 Gen 2  
4. HDMI  
5. USB 3.2 Gen 1 (Always On)  
6. Headphone / microphone combo jack (3.5mm)  
7. Smart card reader *  
8. microSD card reader  
9. USB 3.2 Gen 1  
10. Kensington Nano Security Slot  
11. Nano-SIM card slot (WWAN model) *

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

Processor

Processor Family
AMD Ryzen™ 3 / 5 / 7 Processor

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 3 PRO 7330U</td>
<td>4</td>
<td>8</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 7530U</td>
<td>6</td>
<td>12</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 7730U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**

- Linux[1]
- Ubuntu Linux[2]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system[3]

Notes:
[1], [2] 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>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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 3840x2160@60Hz
- USB-C supports up to 5120x2880@60Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory[1]
Up to 64GB DDR4-3200

Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type
DDR4-3200

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.
One drive, up to 2TB M.2 2242 SSD

Storage Slot
One M.2 2242 PCIe® 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</td>
<td>256GB / 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.
[2] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0 x4 due to AMD platform limitations.

Removable Storage
Card Reader
microSD 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

Camera
- 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 46.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
- Integrated Li-Polymer 63Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter

Battery Life

Configuration 1 (max battery life)
MobileMark® 25: up to 14.12 hr with 605 performance score @250nits
JEITA 2.0: up to 20.8 hr @150nits
Local video playback: up to 17.83 hr @150nits

Alternate configuration 2
MobileMark 25: up to 10.34 hr with 513 performance score @250nits
JEITA 2.0: up to 16.01 hr @150nits
Local video playback: up to 15.78 hr @150nits

Alternate configuration 3
MobileMark 25: up to 8.42 hr with 507 performance score @250nits
JEITA 2.0: up to 13.03 hr @150nits
Local video playback: up to 12.88 hr @150nits

Notes:
[1] Configuration 1 (max battery life): HD (non-touch), AMD Ryzen 7 PRO 7730U, 8GB DDR4, Win 11, 63Wh battery, best power efficiency power mode
Alternate configuration 2: FHD (touch), AMD Ryzen 5 PRO 7530U, 16GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: FHD (touch), AMD Ryzen 5 PRO 7530U, 16GB DDR4, Win 11, 46.5Wh 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**

- 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
- 100W 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</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>14”</td>
<td>HD (1366x768)</td>
<td>None</td>
<td>TN</td>
<td>220nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>500:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>45°/45°/15°/35°</td>
<td>-</td>
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<td>14”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>250nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
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<td>Anti-glare</td>
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<td>1500:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>Low power</td>
</tr>
</tbody>
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**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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**

| Models | Dimensions |
**CONNECTIVITY**

**Network**
**Ethernet**
Gigabit Ethernet, Realtek RTL8111EPV, 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth®**
- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

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

**SIM Card**
No physical SIM card inbox

**NFC**
- Near Field Communication
- No support

Notes:
1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
2. Wi-Fi 6E full features might be limited by country-level restrictions.
3. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.
4. 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 Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x microSD card reader
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
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® L14 Gen 4 (AMD)

Monitor Cable

Monitor Cable

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

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

BIOS Security
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security
- Camera privacy shutter
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management

DASH

SERVICE
**Warranty[1]**

**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

**Notes:**

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model's configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

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**ENVIRONMENTAL**

**Sustainability**

**Material**

- 30% PCC recycled plastic used in top cover frame material
- 30% PCC recycled plastic used in bottom cover material
- 50% PCC recycled plastic used in speaker enclosure
- 90% PCC recycled plastic used in the battery pack
- 90% PCC recycled plastic used in standard adapter
- 45% PCC recycled plastic used in SIM tray
- Low-temperature solder
- 90% recycled and/or sustainable packaging

**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)

**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).

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**CERTIFICATIONS**

**Green Certifications**[1]

**Green Certifications**

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- ErP Lot 26
- ErP Lot 6
- 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 is registered where applicable, please see [https://www.epeat.net](https://www.epeat.net) for registration status by country.

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

- 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

<table>
<thead>
<tr>
<th>1. Ethernet (RJ-45)</th>
<th>7. Smart card reader *</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. USB-C 3.2 Gen 2</td>
<td>8. microSD card reader</td>
</tr>
<tr>
<td>3. Thunderbolt 4</td>
<td>9. USB 3.2 Gen 1</td>
</tr>
<tr>
<td>4. HDMI</td>
<td>10. Kensington Nano Security Slot</td>
</tr>
<tr>
<td>5. USB 3.2 Gen 1 (Always On)</td>
<td>11. Nano-SIM card slot *</td>
</tr>
<tr>
<td>6. Headphone / microphone combo jack (3.5mm)</td>
<td></td>
</tr>
</tbody>
</table>

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

### Processor

**Processor Family**

Intel® U-series or 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>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>U300</td>
<td>5 (1 P-core + 4 E-core)</td>
<td>6</td>
<td>P-core 1.2GHz / E-core 0.9GHz</td>
<td>P-core 4.4GHz / E-core 3.3GHz</td>
<td>8MB</td>
<td>Intel UHD Graphics</td>
</tr>
<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.
[2], [3], [4], [5], [6], [7], [8], [9] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

### Operating System

**Operating System**

- Linux[^1]
- Ubuntu Linux[^2]
- Windows® 11 DG Windows 10 Pro 64[^3]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1], [2] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>Intel Iris Xe Graphics[^1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX 12.1</td>
</tr>
</tbody>
</table>
NVIDIA® GeForce MX550 Discrete 2GB GDDR6 - DirectX 12

Notes:
[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.
[2] NVIDIA GeForce MX550 is NOT available in EMEA.

Monitor Support

Monitor Support
Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)
• HDMI supports up to 3840x2160@60Hz
• USB-C supports up to 5120x3200@60Hz
• Thunderbolt supports up to 5120x3200@60Hz

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory

Max Memory
Up to 64GB DDR4-3200

Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type
DDR4-3200

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Storage Support
One drive, up to 2TB M.2 2242 SSD

Storage Slot
One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</td>
<td>256GB / 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
microSD card reader

Multi-Media

Audio Chip
• Non-vPro® models: High Definition (HD) Audio, Realtek® ALC3287 codec
• vPro models: High Definition (HD) Audio, Senary SN6147 codec

Speakers
Stereo speakers, 2W x2, Dolby® Audio™

Microphone
Dual-microphone array, far-field, Dolby Voice

Camera

---

ThinkPad L14 Gen 4 (Intel) - October 18 2023
ThinkPad L14 Gen 4 (Intel)

- 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 46.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
- Integrated Li-Polymer 63Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter

Battery Life

Configuration 1 (max battery life)
MobileMark® 25: up to 14.38 hr @250nits
JEITA 2.0: up to 27.39 hr @150nits
Local video playback: up to 28.77 hr @150nits

Alternate configuration 2
MobileMark 25: up to 9.35 hr @250nits
JEITA 2.0: up to 16.86 hr @150nits
Local video playback: up to 16.67 hr @150nits

Alternate configuration 3
MobileMark 25: up to 7.6 hr @250nits
JEITA 2.0: up to 15.38 hr @150nits
Local video playback: up to 30.01 hr @150nits

Notes:

[1] Configuration 1 (max battery life): FHD (non-touch), Intel i3-1315U, 8GB DDR4, Win 11, 63Wh battery, best power efficiency power mode
Alternate configuration 2: FHD (non-touch), Intel i5-1350P, 16GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: FHD (touch), Intel i7-1360P, 64GB DDR4, NVIDIA Geforce MX550, Win 11, 63Wh 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**

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- 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
- 100W 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

**Display**
ThinkPad L14 Gen 4 (Intel)

<table>
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<tr>
<th>Size</th>
<th>Resolution</th>
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<td>500:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>45°/45°/15°/35°</td>
<td>Low power</td>
</tr>
<tr>
<td>14”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>250nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>Low power</td>
</tr>
<tr>
<td>14”</td>
<td>FHD (1920x1080)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>Low power</td>
</tr>
<tr>
<td>14”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS[1]</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1500:1</td>
<td>72% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>Low power</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 Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Mechanical

Dimensions (WxDxH)[2]

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium (top), PC-CF (bottom) models</td>
<td>325.4 x 217 x 18.73 mm (12.81 x 8.54 x 0.74 inches)</td>
</tr>
<tr>
<td>Aluminium (top), PC-ABS (bottom) models</td>
<td>325.4 x 217 x 18.93 mm (12.81 x 8.54 x 0.75 inches)</td>
</tr>
<tr>
<td>PC-ABS (top), PC-CF (bottom) models</td>
<td>325.4 x 217 x 19.63 mm (12.81 x 8.54 x 0.77 inches)</td>
</tr>
<tr>
<td>PC-ABS (top), PC-ABS (bottom) models</td>
<td>325.4 x 217 x 19.83 mm (12.81 x 8.54 x 0.78 inches)</td>
</tr>
</tbody>
</table>

Weight[2]
Starting at 1.4 kg (3.09 lbs)

Case Color
Thunder black

Case Material*[2]
- Aluminium (top), PC-ABS (bottom)
- Aluminium (top), PC-CF (bottom)
- PC-ABS (top), PC-ABS (bottom)
- PC-ABS (top), PC-CF (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**
• Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro models), 1x RJ-45, supports Wake-on-LAN
• Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®
• Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
• Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
• No WLAN and Bluetooth

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

SIM Card
No physical SIM card inbox

NFC
• No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6 full features might be limited by country-level restrictions.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations. 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[1]

Standard Ports
• 1x Ethernet (RJ-45)
• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
• 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 1.4)
• 1x microSD card reader

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 Thunderbolt or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® L14 Gen 4 (Intel)

Monitor Cable

Monitor Cable***
• Lenovo HDMI to VGA Monitor Adapter
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
• No smart card reader

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

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• Camera privacy shutter
• (Optional) IR camera for Windows Hello

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[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
30% PCC recycled plastic used in top cover frame material
50% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery pack
90% PCC recycled plastic used in standard adapter
45% PCC recycled plastic used in SIM tray
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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).

CERTIFICATIONS

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- ErP Lot 26
- ErP Lot 6
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

- 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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OVERVIEW

1. Ethernet (RJ-45) 7. Smart card reader *
2. USB-C 3.2 Gen 1 8. microSD card reader
3. USB-C 3.2 Gen 2 9. USB 3.2 Gen 1
4. HDMI 10. Kensington Nano Security Slot
5. USB 3.2 Gen 1 (Always On) 11. Nano-SIM card slot (WWAN model) *
6. Headphone / microphone combo jack (3.5mm)

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

Processor

Processor Family
AMD Ryzen™ 3 / 5 / 7 Processor

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 3 5425U[1]</td>
<td>4</td>
<td>8</td>
<td>2.7GHz</td>
<td>4.1GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 3 PRO 5475U</td>
<td>4</td>
<td>8</td>
<td>2.7GHz</td>
<td>4.1GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 5625U[2]</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 5675U</td>
<td>6</td>
<td>12</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 5825U[3]</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 5875U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Notes:
[1] AMD Ryzen 3 5425U is for special bid in EMEA.
[2] AMD Ryzen 5 5625U is for special bid in EMEA.
[3] AMD Ryzen 7 5825U is for special bid in EMEA.

Operating System

Operating System**

- Linux[1]
- Ubuntu Linux[2]
- Windows® 11 DG Windows 10 Pro 64[3]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory[1]
Up to 64GB DDR4-3200

Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable
Memory Type
DDR4-3200

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage
Storage Support
One drive, up to 1TB M.2 2242 SSD

Storage Slot
One M.2 2242 PCIe® 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 3.0 x4</td>
<td>128GB</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4[2]</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] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0x4 due to AMD platform limitations.

Removable Storage
Optical
None

Card Reader
microSD 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

Camera**
- HD 720p, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus

Battery
Battery**
- Integrated Li-Polymer 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 63Wh battery

Battery Life[3]
Configuration 1 (max battery life)
MobileMark® 2018: up to 11.1 hr with 721 performance score @200nits
JEITA 2.0: up to 14.7 hr @150nits
Local video playback: up to 13.3 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 10.2 hr with 661 performance score @200nits
JEITA 2.0: up to 13.4 hr @150nits
Local video playback: up to 13.1 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 9.5 hr with 619 performance score @200nits
JEITA 2.0: up to 12.6 hr @150nits
Local video playback: up to 12.9 hr @150nits

Notes:
[1] Configuration 1 (max battery life): FHD (touch), AMD Ryzen 7 PRO 5875U, 8GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: FHD (touch), AMD Ryzen 5 PRO 5675U, 32GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: FHD (touch), AMD Ryzen 3 PRO 5475U, 64GB DDR4, Win 11, 57Wh 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][2]
• 45W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz[3]
• 45W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz[4]
• 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[5]
• 65W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz[6]
• No power adapter[7]

Notes:
[2] No power adapter is for special bid only.
In EMEA only 65W USB-C AC adapter is available.
[3], [4] 45W USB-C AC adapter is NOT available in EMEA.
[5], [6] 65W USB-C slim AC adapter is NOT available in EMEA.
[7] No power adapter is for special bid only.

DESIGN

Display

Display**[1]

<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>
</tr>
</thead>
<tbody>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>250nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</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, numeric keypad
Keyboard Backlight
- LED backlight
- Non-backlight

UltraNav™
TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Mechanical
Dimensions (WxDxH)\(^1\)
360.2 x 237 x 19.93 mm (14.18 x 9.33 x 0.78 inches)

Weight\(^2\)
Starting at 1.76 kg (3.87 lbs)

Case Color
Thunder black

Case Material
PC-ABS (top), PC-ABS (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**
- Gigabit Ethernet, Realtek RTL8111EPV (DASH models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Realtek RTL8111HN (non-DASH models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**\(^{[1]}\)
- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card\(^2\)
- Qualcomm® Wi-Fi 6E QCNFA765, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card\(^3\)
- No WLAN and Bluetooth

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

SIM Card
- Gemalto eSIM card (physical)
- No physical SIM card inbox

NFC
- Near Field Communication\(^{[4]}\)
- No support

Notes:
[1] Qualcomm QCNFA765 is NOT available in EMEA.
[2], [3] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations. 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.
[4] NFC is for special bid in EMEA.

Ports\(^{[1]}\)
Standard Ports
**ThinkPad L15 Gen 3 (AMD)**

- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
- 1x microSD card reader

**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 USB-C. For more compatible docking solutions, please visit [Docking for ThinkPad® L15 Gen 3 (AMD)](Docking for ThinkPad® L15 Gen 3 (AMD)).

**Monitor Cable**

Monitor Cable***
- Lenovo HDMI to DP Monitor Adapter
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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**
- Smart card reader
- No smart card reader

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

**BIOS Security**
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

**Other Security**
- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- Glance by Mirametrix®
MANAGEABILITY

System Management

System Management

- DASH
- Non-DASH

SERVICE

Warranty[1]

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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material

- 50% PCC recycled plastic used in speaker enclosure
- 30% PCC recycled plastic used in the battery
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

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)

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).

CERTIFICATIONS

Green Certifications[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- ErP Lot 3
- TCO Certified
- RoHS compliant
Notes:
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Mil-Spec Test
MIL-STD-810H military test passed

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OVERVIEW

1. Ethernet (RJ-45)  
2. USB-C 3.2 Gen 1  
3. Thunderbolt 4  
4. HDMI  
5. USB 3.2 Gen 1 (Always On)  
6. Headphone / microphone combo jack (3.5mm)  
7. Smart card reader *  
8. microSD card reader  
9. USB 3.2 Gen 1  
10. Kensington Nano Security Slot  
11. Nano-SIM card slot *

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

**Processor**

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

**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>Pentium Gold 8505</td>
<td>5 (1 P-core + 4 E-core)</td>
<td>6</td>
<td>P-core 1.2GHz / E-core 0.9GHz</td>
<td>P-core 4.4GHz / E-core 3.3GHz</td>
<td>8MB</td>
<td>Intel UHD Graphics</td>
</tr>
<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 i7-1255U</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 i7-1260P</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>
</tbody>
</table>

Notes:

[1] Intel P series processors are for special bid only in EMEA.
[2], [3], [4], [5], [6], [7], [8] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

**Operating System**

**Operating System**

- Linux
- Ubuntu Linux
- Windows® 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1], [2] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<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>
Notes:

[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

**Monitor Support**

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)

- HDMI supports up to 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

**Chipset**

Chipset

Intel SoC (System on Chip) platform

**Memory**

Max Memory

Up to 64GB DDR4-3200

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type

DDR4-3200

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

**Storage**

Storage Support

One drive, up to 1TB M.2 2242 SSD

Storage Slot

One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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.

**Removable Storage**

Optical

None

Card Reader

microSD 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

Camera

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
ThinkPad L15 Gen 3 (Intel)

- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus

**Battery**

- Integrated Li-Polymer 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 63Wh battery

**Battery Life**[1]

**Configuration 1 (max battery life)**
MobileMark® 2018: up to 11.1 hr with 825 performance score @200nits
JEITA 2.0: up to 16.2 hr @150nits
Local video playback: up to 16.3 hr @150nits

**Alternate configuration 2**
MobileMark 2018: up to 9.6 hr with 1009 performance score @200nits
JEITA 2.0: up to 12.3 hr @150nits
Local video playback: up to 12.7 hr @150nits

**Alternate configuration 3**
MobileMark 2018: up to 6.2 hr with 998 performance score @200nits
JEITA 2.0: up to 9.4 hr @150nits
Local video playback: up to 9.4 hr @150nits

Notes:

[1] Configuration 1 (max battery life): FHD (touch), Intel i3-1215U, 4GB DDR4, Win 10, 57Wh battery, best power efficiency power mode
Alternate configuration 2: FHD (non-touch), Intel i5-1250P, 16GB DDR4, Win 10, 57Wh battery, best power efficiency power mode
Alternate configuration 3: FHD (touch), Intel i7-1260P, 64GB DDR4, Win 10, 42Wh 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**[2]

- 45W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz[2]
- 45W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz[3]
- 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[4]
- 65W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz[5]
- No power adapter[6]

Notes:

[2], [3] 45W USB-C AC adapter is NOT available in EMEA.
[4], [5] 65W USB-C slim AC adapter is NOT available in EMEA.
[6] No power adapter is for special bid only.
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, numeric keypad

Keyboard Backlight
• LED backlight
• Non-backlight

UltraNav™
TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Mechanical
Dimensions (WxDxH)[1]
360.2 x 237 x 19.93 mm (14.18 x 9.33 x 0.78 inches)

Weight[2]
Starting at 1.76 kg (3.87 lbs)

Case Color
Thunder black

Case Material
PC-ABS (top), PC-ABS (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
Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**[1]
• Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[2]
• Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]
• Qualcomm Wi-Fi 6E QCNFA765, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[4]
• Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[5]
• Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[6]
• No WLAN and Bluetooth

WWAN**
• Wireless WAN upgradable to 4G (with antenna ready)
• Fibocom L860-GL-16, 4G LTE CAT16, M.2 card[7]
• Quectel EM05-G, 4G LTE CAT4, M.2 card
• No support
SIM Card

• Gemalto eSIM card (physical)
• No physical SIM card inbox

NFC

• Near Field Communication
• No support

Notes:

[1] Qualcomm QCNFA725 and Qualcomm QCNFA765 are NOT available in EMEA.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
Wi-Fi 6 full features might be limited by country-level restrictions.
[3], [4], [5], [6] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
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.
[7] CAT16 is NOT available in EMEA.
[8] NFC is for special bid in EMEA.

Ports

Standard Ports

• 1x Ethernet (RJ-45)
• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
• 1x USB 3.2 Gen 1
• 1x USB 3.2 Gen 1 (Always On)
• 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
• 1x microSD card reader

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;
USB 4 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
USB 4 40Gbps (USB 40Gbps): 40 Gbit/s;
Thunderbolt 3/4: 40 Gbit/s.

Docking

Docking

Various docking solutions supported via Thunderbolt or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® L15 Gen 3 (Intel)

Monitor Cable

Monitor Cable

• Lenovo HDMI to DP Monitor Adapter
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort 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
• Smart card reader
• No smart card reader

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

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• Camera privacy shutter
• (Optional) IR camera for Windows Hello
• Glance by Mirametrix®
• Tile ready

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[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
50% PCC recycled plastic used in speaker enclosure
25-30% PCC recycled plastic used in the battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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).

CERTIFICATIONS

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- ErP Lot 3
- RoHS compliant
- TCO Certified

Notes:
[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

- 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Ethernet (RJ-45)  
2. USB-C 3.2 Gen 2  
3. USB-C 3.2 Gen 2  
4. HDMI  
5. USB 3.2 Gen 1 (Always On)  
6. Headphone / microphone combo jack (3.5mm)  
7. Smart card reader *  
8. microSD card reader  
9. USB 3.2 Gen 1  
10. Kensington Nano Security Slot  
11. Nano-SIM card slot (WWAN model) *

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

Processor
Processor Family
AMD Ryzen™ 3 / 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 3 PRO 7330U</td>
<td>4</td>
<td>8</td>
<td>2.3GHz</td>
<td>4.3GHz</td>
<td>2MB L2 / 8MB L3</td>
<td>AMD Radeon™ Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 5 PRO 7530U</td>
<td>6</td>
<td>12</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 7730U</td>
<td>8</td>
<td>16</td>
<td>2.0GHz</td>
<td>4.5GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon Graphics</td>
</tr>
</tbody>
</table>

Operating System
Operating System
- Linux[1]
- Ubuntu Linux[2]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system[3]

Notes:
[1], [2] 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>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Radeon Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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 3840x2160@60Hz
- USB-C supports up to 5120x2880@60Hz

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory[1]
Up to 64GB DDR4-3200

Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type
DDR4-3200

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Storage Support
One drive, up to 2TB M.2 2242 SSD

Storage Slot
One M.2 2242 PCIe® 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</td>
<td>256GB / 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.
[2] The SSD with PCIe 4.0x4 is downgraded to closer to PCIe 3.0 x4 due to AMD platform limitations.

Removable Storage

Card Reader
microSD 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

Camera**
- 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 46.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
- Integrated Li-Polymer 63Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter

Battery Life[1]
Configuration 1 (max battery life)
MobileMark® 25: up to 12.18 hr with 607 performance score @250nits
JEITA 2.0: up to 18.1 hr @150nits
Local video playback: up to 17.45 hr @150nits

Alternate configuration 2
MobileMark 25: up to 9.31 hr with 512 performance score @250nits
JEITA 2.0: up to 15.12 hr @150nits
Local video playback: up to 15.32 hr @150nits

Alternate configuration 3
MobileMark 25: up to 7.52 hr with 509 performance score @250nits
JEITA 2.0: up to 12.33 hr @150nits
Local video playback: up to 12.46 hr @150nits

Notes:
[1] Configuration 1 (max battery life): FHD (non-touch), AMD Ryzen 7 PRO 7730U, 8GB DDR4, Win 11, 63Wh battery, best power efficiency power mode
Alternate configuration 2: FHD (touch), AMD Ryzen 5 PRO 7530U, 16GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: FHD (touch), AMD Ryzen 5 PRO 7530U, 16GB DDR4, Win 11, 46.5Wh 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 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
- 100W 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**[1]**

<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>
</tr>
</thead>
<tbody>
<tr>
<td>15.6&quot; FHD</td>
<td>1920x1080</td>
<td>None</td>
<td>IPS</td>
<td>250nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°/85°</td>
</tr>
<tr>
<td>15.6&quot; FHD</td>
<td>1920x1080</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°/85°</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, numeric keypad

**Keyboard Backlight**

- LED backlight
- Non-backlight

**UltraNav™**

TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**[3]

360.2 x 237 x 19.93 mm (14.18 x 9.33 x 0.78 inches)

**Weight**[2]

Starting at 1.77 kg (3.91 lbs)

**Case Color**

Thunder black
Case Material
PC-ABS (top), PC-ABS (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
Gigabit Ethernet, Realtek RTL8111EPV, 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®
- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

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

SIM Card
No physical SIM card inbox

NFC
- Near Field Communication
- No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
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\(^{[1]}\)

Standard Ports
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x microSD card reader
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)

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® L15 Gen 4 (AMD)](https://smartfind.lenovo.com/).

**Monitor Cable**

Monitor Cable***

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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**

- Smart card reader
- No smart card reader

**Fingerprint Reader**

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

**BIOS Security**

- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

**Other Security**

- Camera privacy shutter
- (Optional) IR camera for Windows Hello

**MANAGEABILITY**

**System Management**

**DASH**

**SERVICE**

**Warranty**(1)

**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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of
warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
30% PCC recycled plastic used in top cover frame material
30% PCC recycled plastic used in bottom cover material
50% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery pack
90% PCC recycled plastic used in standard adapter
45% PCC recycled plastic used in SIM tray
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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).

CERTIFICATIONS

Green Certifications[^1]

Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[^2]
• ErP Lot 26
• ErP Lot 6
• 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

• 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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you.

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notice.
OVERVIEW

1. Ethernet (RJ-45)
2. USB-C 3.2 Gen 2
3. Thunderbolt 4
4. HDMI
5. USB 3.2 Gen 1 (Always On)
6. Headphone / microphone combo jack (3.5mm)
7. Smart card reader *
8. microSD card reader
9. USB 3.2 Gen 1
10. Kensington Nano Security Slot
11. Nano-SIM card slot *

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

Processor

Processor Family
Intel® U-series or 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>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>U300</td>
<td>5 (1 P-core + 4 E-core)</td>
<td>6</td>
<td>P-core 1.2GHz / E-core 0.9GHz</td>
<td>P-core 4.4GHz / E-core 3.3GHz</td>
<td>8MB</td>
<td>Intel UHD Graphics</td>
</tr>
<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>
</tbody>
</table>

Notes:
[1] Intel P series processors are for special bid only.
[2], [3], [4], [5], [6], [7], [8] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

Operating System**

- Linux[2]
- Ubuntu Linux[2]
- Windows® 11 DG Windows 10 Pro 64[3]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>Intel Iris Xe Graphics[1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX 12.1</td>
</tr>
</tbody>
</table>
Notes:
[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.
[2] NVIDIA GeForce MX550 is NOT available in EMEA.

Monitor Support

Monitor Support
Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory

Max Memory
Up to 64GB DDR4-3200

Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type
DDR4-3200

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Storage Support
One drive, up to 2TB M.2 2242 SSD

Storage Slot
One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</td>
<td>256GB / 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
microSD card reader

Multi-Media

Audio Chip
- Non-vPro® models: High Definition (HD) Audio, Realtek® ALC3287 codec
- vPro models: High Definition (HD) Audio, Senary SN6147 codec

Speakers
Stereo speakers, 2W x2, Dolby® Audio™

Microphone
Dual-microphone array, far-field, Dolby Voice

Camera**
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus
Battery

Integrated Li-Polymer 46.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
Integrated Li-Polymer 63Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter

Battery Life

Configuration 1 (max battery life)
MobileMark® 25: up to 11.5 hr @250nits
JEITA 2.0: up to 18.42 hr @150nits
Local video playback: up to 19.5 hr @150nits

Alternate configuration 2
MobileMark 25: up to 8.93 hr @250nits
JEITA 2.0: up to 14.92 hr @150nits
Local video playback: up to 14.54 hr @150nits

Alternate configuration 3
MobileMark 25: up to 7.35 hr @250nits
JEITA 2.0: up to 14.57 hr @150nits
Local video playback: up to 14.25 hr @150nits

Notes:
[1] Configuration 1 (max battery life): FHD (touch), Intel i5-1340P, 8GB DDR4, Win 11, 63Wh battery, best power efficiency power mode
Alternate configuration 2: FHD (non-touch), Intel i5-1350P, 16GB DDR4, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: FHD (touch), Intel i7-1360P, 64GB DDR4, NVIDIA Geforce MX550, Win 11, 63Wh 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

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
100W 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

Size Resolution Touch Type Brightness Surface Aspect Ratio Contrast Ratio Color Gamut Refresh Rate Viewing Angle (L/R/U/D)

Notes:
<table>
<thead>
<tr>
<th></th>
<th>15.6” FHD (1920x1080)</th>
<th>15.6” FHD (1920x1080)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>None IPS 250nits Anti-glare 16:9 800:1 45% NTSC 60Hz 85°/85°/85°/85°</td>
<td>Multi-touch IPS 300nits Anti-glare 16:9 800:1 45% NTSC 60Hz 85°/85°/85°/85°</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, numeric keypad

**Keyboard Backlight**
- LED backlight
- Non-backlight

**UltraNav™**
- TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**
- 360.2 x 237 x 19.93 mm (14.18 x 9.33 x 0.78 inches)

**Weight**
- Starting at 1.77 kg (3.91 lbs)

**Case Color**
- Thunder black

**Case Material**
- PC-ABS (top), PC-ABS (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**
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth**
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

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

**SIM Card**
- No physical SIM card inbox

**NFC**

---

*ThinkPad L15 Gen 4 (Intel) - October 18 2023*
Near Field Communication
• No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
Wi-Fi 6 full features might be limited by country-level restrictions.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
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[1]
Standard Ports
• 1x Ethernet (RJ-45)
• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
• 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 1.4)
• 1x microSD card reader
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 or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® L15 Gen 4 (Intel)

Monitor Cable
Monitor Cable
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort 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
• Smart card reader
• No smart card reader
Fingerprint Reader
• Touch style fingerprint reader integrated in power button, match-on-chip
• No fingerprint reader

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• Camera privacy shutter
• (Optional) IR camera for Windows Hello

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[1]
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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
30% PCC recycled plastic used in top cover frame material
50% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery pack
90% PCC recycled plastic used in standard adapter
45% PCC recycled plastic used in SIM tray
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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).

CERTIFICATIONS

Green Certifications

Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• ErP Lot 26
• ErP Lot 6
• RoHS compliant
• TCO Certified 9.0

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[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
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Other Certifications

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

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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Power connector
2. Thunderbolt 4
3. Thunderbolt 4
4. HDMI
5. Headphone (3.5mm)
6. SD card reader
7. Nano-SIM card slot
8. USB 3.2 Gen 1
9. USB 3.2 Gen 1 (Always On)
10. Kensington Security Slot
PERFORMANCE

Processor

Processor Family
11th Generation Intel® Core™ i7 / i9 or Intel Xeon® 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 i7-11800H</td>
<td>8</td>
<td>16</td>
<td>2.3GHz</td>
<td>4.6GHz</td>
<td>24MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-11850H</td>
<td>8</td>
<td>16</td>
<td>2.5GHz</td>
<td>4.8GHz</td>
<td>24MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i9-11950H</td>
<td>8</td>
<td>16</td>
<td>2.6GHz</td>
<td>5.0GHz</td>
<td>24MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Xeon W-11855M</td>
<td>6</td>
<td>12</td>
<td>3.2GHz</td>
<td>4.9GHz</td>
<td>18MB</td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**(1)

- Fedora Linux
- Red Hat Enterprise Linux 8.4 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)
- Ubuntu Linux LTS
- Ubuntu Linux with Data Science Preload
- Windows® 10 Home 64
- Windows 10 Home 64 Single Language
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations
- Windows 11 DG Windows 10 Pro 64
- Windows 11 DG Windows 10 Pro 64 for Workstations
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1] As preloaded OS, Fedora and Ubuntu Linux will be available in October 2021.

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</td>
</tr>
<tr>
<td>NVIDIA® GeForce RTX™ 3080 Laptop GPU[1]</td>
<td>Discrete</td>
<td>16GB GDDR6</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA RTX A5000 Laptop GPU[2]</td>
<td>Discrete</td>
<td>16GB GDDR6</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA RTX A2000 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA T200 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA RTX A4000 Laptop GPU[5]</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
</tbody>
</table>

Notes:

[1], [2], [3], [4], [5] Vapor Chamber cooling is available only with NV RTX A3000/A4000/A5000 and GeForce RTX 3070/3080 GPUs.

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI™ and Thunderbolt™)
- HDMI supports up to 4K@60Hz on NVIDIA T200 or Intel UHD models, or 8K@60Hz on other discrete graphics models
• Thunderbolt supports up to 5120x3200@60Hz

**Chipset**

Intel WM590 chipset

**Memory**

Max Memory
Up to 64GB DDR4-3200

Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type**

- DDR4-3200 ECC
- DDR4-3200 non-ECC

Memory Protection
ECC on models with ECC DIMMs and Xeon processor

**Storage**

Storage Support

- One drive, up to 2TB M.2 2280 SSD
- Models with Intel UHD Graphics, NVIDIA T1200, and NVIDIA RTX A2000 Graphics:
  - up to two drives, 2x M.2 SSD
  - M.2 2280 SSD up to 2TB
  - RAID 0/1 support

Storage Slot**(2)

Two M.2 slots

- One M.2 2280 PCIe® 3.0 x4 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 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4</td>
<td>256GB / 512GB / 1TB</td>
<td>Opal 2.0</td>
</tr>
</tbody>
</table>

RAID**(4)

RAID 0/1 support (All M.2 SSD drives will work at PCIe Gen 3 in RAID mode)

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
[3] PCIe x4 SSD may be PCIe 3.0 x4 or PCIe 4.0 x4 as substitution.
[4] Opal capability is not available in RAID mode.

**Removable Storage**

Optical
None

Card Reader
SD card reader, supports UHS-II SD card

**Multi-Media**

Audio Chip
High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers
Stereo speakers, Dolby® Atmos®

Microphone
- Dual-microphone array, far-field
ThinkPad P1 Gen 4

- No microphone
- Camera**
  - FHD 1080p + IR, with privacy shutter, fixed focus
  - FHD 1080p, with privacy shutter, fixed focus
  - No camera

Battery

Battery

Integrated Li-Polymer 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Max Battery Life

MobileMark 2018: 10.9 hr
JEITA 2.0: 13.7 hr

Notes:
[1] All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, MobileMark 25, JEITA 2.0, continuous 1080p video playback (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 and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

Power Adapter**[i]

- 135W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

Notes:

DESIGN

Display

Display**[i]

<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>16&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°/-/-</td>
<td>Low blue light, 85.8% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQUXGA (3840x2400)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>600nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% Adobe* RGB</td>
<td>85°/85°/-/-</td>
<td>Low blue light, Dolby Vision™, DisplayHDR™ 400, 85.4% screen to body ratio, DC dimming[^2]</td>
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</tr>
</tbody>
</table>

Color Calibration

- X-Rite® factory color calibration
- No color calibration

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], [3] For non-OLED display, HDR is only supported under hybrid mode.

**Input Device**

**Pen**
- Lenovo Pen Pro
- No pen (purchase separately)
- No support (non-touch display doesn't support pen input)

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

**Keyboard Backlight**
LED backlight

**UltraNav™**
3-button TrackPoint® pointing device and glass surface multi-touch touchpad, 67.6 x 115 mm (2.66 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**

<table>
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<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
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<tr>
<td>Non-touch models</td>
<td>359.5 x 253.8 x 17.7 mm (14.15 x 9.99 x 0.7 inches)</td>
</tr>
<tr>
<td>Touch models</td>
<td>359.5 x 253.8 x 18.2 mm (14.15 x 9.99 x 0.72 inches)</td>
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**Weight**

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</thead>
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<tr>
<td>Non-touch models</td>
<td>Starting at 1.81 kg (3.99 lbs)</td>
</tr>
<tr>
<td>Touch models</td>
<td>Starting at 1.86 kg (4.1 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
- 37-degree twill CF weave
- Black

**Case Material**
- CFRP / GFRP (top), aluminium (bottom)
- CFRP / GFRP hybrid (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®**
Intel Wi-Fi® 6E AX210, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)[2]

**WWAN**
- Qualcomm® Snapdragon™ X55 5G Modem-RF System, Sub-6 GHz, M.2 card, with embedded eSIM functionality
- No support

**SIM Card**
No physical SIM card inbox
NFC
No support

Notes:
[1] Ethernet support via optional docking or Lenovo USB-C® to Ethernet Adapter.
[2] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations.
[3] WWAN is only available on models with Intel UHD graphics, NVIDIA T1200, and NVIDIA RTX A2000.

Ports

Standard Ports
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD card reader
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
- 2x USB 3.2 Gen 1 (one Always On)

Optional Ports
- 1x HDMI 2.1, up to 4K/60Hz (models with integrated graphics)
- 1x Nano-SIM card slot (WWAN support models)
- 1x HDMI 2.1, up to 4K/60Hz (models with NVIDIA T1200 graphics)
- 1x HDMI 2.1, up to 8K/60Hz (models with GeForce RTX graphics)
- 1x HDMI 2.1, up to 8K/60Hz (models with NVIDIA RTX graphics)

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 or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® P1 Gen 4

Monitor Cable

Monitor Cable
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
NVMe password
Self-healing BIOS

Other Security
(Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management[1]
- Intel vPro®
- Non-vPro

Notes:
[1] Intel vPro offers a superset of DASH’s defined capabilities.

SERVICE

Warranty[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Operating Environment

Temperature[1]
- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

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
CERTIFICATIONS

Green Certifications

Green Certifications
(Optional) ENERGY STAR® 8.0
(Optional) EPEAT™ Gold Registered
RoHS compliant

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
TÜV Rheinland® Low Blue Light

ISV Certifications

ISV Certifications
Please visit www.thinkworkstations.com/isv-certifications/

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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The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Power connector
2. Thunderbolt 4
3. Thunderbolt 4
4. HDMI
5. Headphone (3.5mm)
6. SD Express 7.0 card reader
7. Nano-SIM card slot *
8. USB 3.2 Gen 1
9. USB 3.2 Gen 1 (Always On)
10. Kensington Nano Security Slot

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

Processor

Processor Family
12th Generation H series Intel® Core™ i7 / i9 processor, supports up to 14 cores, up to 5.0GHz

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>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i7-12700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.3GHz / E-core 1.7GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>24MB</td>
<td>Intel Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core i7-12800H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.4GHz / E-core 1.8GHz</td>
<td>P-core 4.8GHz / E-core 3.7GHz</td>
<td>24MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i9-12900H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.5GHz / E-core 1.8GHz</td>
<td>P-core 5.0GHz / E-core 3.8GHz</td>
<td>24MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
</tbody>
</table>

Notes:
[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

Operating System

- Fedora Linux
- Red Hat Enterprise Linux 8.6 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)
- Ubuntu Linux LTS
- Ubuntu Linux with Data Science Preload
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

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[1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA RTX A1000 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA RTX A2000 8GB Laptop GPU</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>35W</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
</tbody>
</table>

Notes:
[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD graphics.
[2, 3, 4, 5, 6] Vapor Chamber cooling is available only with NV RTX A3000 / A4500 / A5500 and GeForce RTX 3070 / 3080 GPUs.
Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™):
- HDMI supports up to 3840x2160@60Hz on Intel Iris Xe models; 7680x4320@60Hz on discrete NVIDIA graphics models
- Thunderbolt supports up to 5120x3200@60Hz

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory
Up to 64GB DDR5-4800

Memory Slots
Two DDR5 SO-DIMM slots, dual-channel capable

Memory Type
DDR5-4800 non-ECC

Storage

Storage Support:
- Models with integrated graphics or NVIDIA RTX A1000/A2000: up to two drives, 2x M.2 SSD
  - M.2 2280 SSD up to 8TB, 4TB each
  - RAID 0/1 support
- Models with NVIDIA GeForce/RTX A3000/A4500/A5500: one drive, up to 4TB M.2 2280 SSD

Storage Slot
- Models with Intel integrated graphics or NVIDIA RTX A1000/A2000: two M.2 2280 PCIe® 4.0 x4 slots
- Models with NVIDIA GeForce/RTX A3000/A4500/A5500: 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 Performance</td>
<td>512GB / 1TB / 2TB / 4TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4</td>
<td>256GB / 512GB / 1TB</td>
<td>Opal 2.0</td>
</tr>
</tbody>
</table>

RAID
- RAID 0/1 support (for models with integrated graphics or NVIDIA RTX A1000/A2000)
- No support

Notes:
[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
[2] PCIe x4 SSD may be PCIe 3.0 x4 or PCIe 4.0 x4 as substitution.

Removable Storage

Card Reader
SD Express 7.0 card reader

Multi-Media

Audio Chip
High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers
Stereo speakers, 2W x2, optimized with Dolby® Atmos®

Microphone
Dual-microphone array, far-field, Dolby Voice

Camera
- FHD 1080p + IR, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- No camera
**Battery**
Integrated Li-Polymer 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Power Adapter**
**Power Adapter**
- 135W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

Notes:

**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>
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<th>Color Gamut</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>89°/89°/-/-</td>
<td>Low Blue Light, X-Rite Factory Color Calibration, 86.42% screen to body ratio, DC dimming</td>
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<tr>
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<td>WQUXGA (3840x2400)</td>
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<td>IPS</td>
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**Color Calibration**
X-Rite factory color calibration

**Touchscreen**
- OGM (One Glass Metal mesh) 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**

**Pen**
- Lenovo Precision Pen 2 with built-in rechargeable battery, 4096 levels of pressure sensitivity, tilt detection, supports
WGP, AES 2.0 and MPP 2.0 protocols. For more information, please read Lenovo Precision Pen 2

- No pen (purchase separately)
- No support (non-touch display doesn't support pen input)

**Keyboard**

- 6-row, spill-resistant, multimedia Fn keys with Unified Communications controls

**Keyboard Backlight**

- LED backlight

**UltraNav™**

- 3-button TrackPoint® pointing device and glass surface multi-touch touchpad, 67.6 x 115 mm (2.66 x 4.53 inches)

**Mechanical**

**Dimensions (Wx DxH)**

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</table>

**Case Color**

- 37-degree twill CF weave
- Black

**Case Material**

- CFRP / GFRP (top), aluminium (bottom)
- CFRP / GFRP hybrid (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 5.1 (Bluetooth 5.3 hardware ready)
- WWAN
  - 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:

- Ethernet support via optional docking or Lenovo USB-C® to Ethernet Adapter.
- Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations.
**Ports**

**Standard Ports**
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector
- 1x SD Express 7.0 card reader
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 2x USB 3.2 Gen 1 (one Always On)
- Models with NVIDIA graphics: 1x HDMI 2.1, up to 8K/60Hz
- Models with integrated graphics: 1x HDMI 2.1, up to 4K/60Hz

**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 / USBC 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 or USB-C. For more compatible docking solutions, please visit [Docking for ThinkPad® P1 Gen 5](#).

**Monitor Cable**

Monitor Cable

- (Optional) Lenovo USB-C to VGA Adapter
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- NVMe password
- Self-healing BIOS

**Other Security**

- (Optional) Camera privacy shutter
- Bottom cover tamper detection
- (Optional) IR camera for Windows Hello

---
MANAGEABILITY

System Management

System Management

- Intel vPro® Enterprise
- Non-vPro

Notes:

[1] 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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material

90% recycled and/or sustainable packaging

Operating Environment

Temperature

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

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)
- Lenovo USB-C to Ethernet Adapter (2.5Gbps)
- None

CERTIFICATIONS
Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- RoHS compliant

Notes:
[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
TÜV Rheinland® Low Blue Light

ISV Certifications

ISV Certifications
Please visit ISV certifications for Lenovo Workstations

- Feature with ** means that only one offering listed under the feature is configured on selected models.
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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. SD Express 7.0 card reader  
2. Nano-SIM card slot * 
3. USB 3.2 Gen 1 
4. USB 3.2 Gen 1 (Always On) 
5. Kensington Nano Security Slot  
6. Power connector  
7. Thunderbolt 4 
8. Thunderbolt 4  
9. HDMI  
10. Headphone (3.5mm)

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

Processor

Processor Family
13th Generation H series Intel® Core™ i7 / i9 processor, supports up to 14 cores, up to 5.4GHz

<table>
<thead>
<tr>
<th>Processor Name</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Frequency</th>
<th>Cache</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i7-13700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.4GHz / E-core 1.8GHz</td>
<td>P-core 5.0GHz / E-core 3.7GHz</td>
<td>24MB</td>
</tr>
<tr>
<td>Core i7-13800H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.5GHz / E-core 1.8GHz</td>
<td>P-core 5.2GHz / E-core 4.0GHz</td>
<td>24MB</td>
</tr>
<tr>
<td>Core i9-13900H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.6GHz / E-core 1.9GHz</td>
<td>P-core 5.4GHz / E-core 4.1GHz</td>
<td>24MB</td>
</tr>
</tbody>
</table>

Operating System

<table>
<thead>
<tr>
<th>Operating System**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fedora Linux</td>
</tr>
<tr>
<td>Red Hat Enterprise Linux 9.2 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)[1]</td>
</tr>
<tr>
<td>Ubuntu Linux LTS</td>
</tr>
<tr>
<td>Ubuntu Linux with Data Science Preload</td>
</tr>
<tr>
<td>Windows® 11 DG Windows 10 Pro 64</td>
</tr>
<tr>
<td>Windows 11 Home</td>
</tr>
<tr>
<td>Windows 11 Home Single Language</td>
</tr>
<tr>
<td>Windows 11 Pro</td>
</tr>
<tr>
<td>No operating system</td>
</tr>
</tbody>
</table>

Notes:

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>NVIDIA® GeForce RTX™ 4080</td>
<td>Discrete</td>
<td>12GB GDDR6</td>
<td>80W</td>
<td>Advanced Optimus, Dynamic Boost 2.0, VR ready, DirectX® 12 Ultimate</td>
</tr>
<tr>
<td>Laptop GPU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NVIDIA RTX 3500 Ada Generation</td>
<td>Discrete</td>
<td>12GB GDDR6</td>
<td>80W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>Laptop GPU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NVIDIA RTX 4000 Ada Generation</td>
<td>Discrete</td>
<td>12GB GDDR6</td>
<td>80W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>Laptop GPU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 4090</td>
<td>Discrete</td>
<td>16GB GDDR6</td>
<td>80W</td>
<td>Advanced Optimus, Dynamic Boost 2.0, VR ready, DirectX 12 Ultimate</td>
</tr>
<tr>
<td>Laptop GPU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NVIDIA RTX 5000 Ada Generation</td>
<td>Discrete</td>
<td>16GB GDDR6</td>
<td>80W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>Laptop GPU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NVIDIA RTX A1000 Laptop GPU</td>
<td>Discrete</td>
<td>6GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 4060</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>80W</td>
<td>Advanced Optimus (OTA), Dynamic Boost 2.0, DirectX 12 Ultimate</td>
</tr>
<tr>
<td>Laptop GPU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NVIDIA RTX 2000 Ada Generation</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>Laptop GPU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Monitor Support

<table>
<thead>
<tr>
<th>Monitor Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)</td>
</tr>
<tr>
<td>• HDMI supports up to 7680x4320@60Hz</td>
</tr>
</tbody>
</table>

ThinkPad P1Gen 6 - July 18 2023
ThinkPad P1 Gen 6

• Thunderbolt supports up to 5120x3200@60Hz

Chipset
Chipset
Intel SoC (System on Chip) platform

Memory
Max Memory
Up to 96GB (2x 48GB DDR5 SO-DIMM)
Memory Slots
Two DDR5 SO-DIMM slots, dual-channel capable
Memory Type
DDR5-5600 non-ECC

Storage
Storage Support
• Models with NVIDIA RTX A1000/2000 Ada:
  - up to two drives, 2x M.2 SSD
  - M.2 2280 SSD up to 8TB, 4TB each
  - RAID 0/1 support
• Models with NVIDIA RTX 3500/4000/5000 Ada or GeForce RTX4060/4080/4090:
  - one drive, up to 4TB M.2 2280 SSD

Storage Slot
• Models with NVIDIA RTX A1000/2000 Ada:
  - Two M.2 2280 PCIe® 4.0 x4 slots
• Models with NVIDIA RTX 3500/4000/5000 Ada or GeForce RTX4060/4080/4090:
  - 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 Performance</td>
<td>512GB / 1TB / 2TB / 4TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4</td>
<td>256GB / 512GB / 1TB</td>
<td>Opal 2.0</td>
</tr>
</tbody>
</table>

RAID
RAID 0/1 support (for models with NVIDIA RTX A1000/2000 Ada)

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

Removable Storage
Card Reader
SD Express 7.0 card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3306 codec
Speakers
Stereo speakers, 2W x2, optimized with Dolby® Atmos®
Microphone
Dual-microphone array, far-field, Dolby Voice
Camera
• 5.0MP + IR hybrid, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
• FHD 1080p + IR hybrid, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
• No camera

Battery
Battery

ThinkPad P1 Gen 6 - July 18 2023 3 of 9
Integrated Li-Polymer 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Power Adapter**

- **Power Adapter**
  - 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
  - 230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

**Notes:**


**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>Refresh Rate</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[1]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89° / 89° / 80° / 80°</td>
<td>TÜV Low Blue Light, X-Rite Factory Color Calibration, 86.2% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16”</td>
<td>WQXGA (2560x1600)</td>
<td>None</td>
<td>IPS[2]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>165Hz</td>
<td>89° / 89° / 80° / 80°</td>
<td>TÜV Low Blue Light, X-Rite Factory Color Calibration, 86.2% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16”</td>
<td>WQUXGA (3840x2400)</td>
<td>Add-on Film Touch</td>
<td>OLED</td>
<td>SDR 400nits / HDR 500nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000000:1</td>
<td>100% DCI-P3</td>
<td>60Hz</td>
<td>87.5° / 87.5° / 87.5° / 87.5°</td>
<td>DisplayHDR™ 400, Dolby Vision™, TÜV Low Blue Light, X-Rite Factory Color Calibration, 86.1% screen to body ratio</td>
</tr>
</tbody>
</table>

**Color Calibration**

X-Rite factory color calibration

**Touchscreen**

- Add-on Film Touch, supports 10-point touch (OLED models only)
- Non-touch

**Notes:**

[1], [2] 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

**UltraNav™**

3-button TrackPoint® pointing device and glass surface multi-touch touchpad, 67.6 x 115 mm (2.66 x 4.53 inches)
**Mechanical**

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Touch models</td>
<td>359.5 x 253.8 x 17.3 mm (14.15 x 9.99 x 0.68 inches)</td>
</tr>
<tr>
<td>Non-touch models</td>
<td>359.5 x 253.8 x 17.5 mm (14.15 x 9.99 x 0.69 inches)</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-touch models</td>
<td>Starting at 1.86 kg (4.11 lbs)</td>
</tr>
<tr>
<td>Touch models</td>
<td>Starting at 1.78 kg (3.92 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**

- Black
- Black, weave

**Case Material**

- CFRP / GFRP (top), aluminium (bottom)
- CFRP / GFRP hybrid (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®**

Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)

**WWAN**

- 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:**

[1] Ethernet support via optional docking or Lenovo USB-C® to Ethernet Adapter, up to 2.5GbE.
[2] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

**Ports**

**Standard Ports**

- 1x HDMI 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector
- 1x SD Express 7.0 card reader
- 1x Security keyhole
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 2x USB 3.2 Gen 1 (one Always On)
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 or USB-C. For more compatible docking solutions, please visit [Docking for ThinkPad® P1 Gen 6](#).

Monitor Cable

Monitor Cable

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- NVMe password
- Self-healing BIOS

Other Security

- (Optional) Ultrasonic Human Presence Detection for IR camera
- (Optional) Camera privacy shutter
- Bottom cover tamper detection
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management

- Intel vPro® Enterprise[1]
- Non-vPro

Notes:

[1] Intel vPro® Enterprise

[1] 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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL
Sustainability
Material
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery
30% PCC recycled plastic used in 170W power adapter
90% recycled and/or sustainable packaging

Operating Environment
Temperature
- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

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 (2.5Gbps)
- None

CERTIFICATIONS
Green Certifications
Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- RoHS compliant
Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications
Mil-Spec Test
MIL-STD-810H military test passed

Other Certifications
TÜV Rheinland® Low Blue Light

ISV Certifications
ISV Certifications
Please visit ISV certifications for Lenovo Workstations

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### OVERVIEW

<table>
<thead>
<tr>
<th>1. Ethernet (RJ-45)</th>
<th>6. Headphone / microphone combo jack (3.5mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. USB-C 3.2 Gen 2</td>
<td>7. Smart card reader *</td>
</tr>
<tr>
<td>3. USB-C 3.2 Gen 2</td>
<td>8. USB 3.2 Gen 1</td>
</tr>
<tr>
<td>4. HDMI</td>
<td>9. Security keyhole</td>
</tr>
<tr>
<td>5. USB 3.2 Gen 1 (Always On)</td>
<td>}</td>
</tr>
</tbody>
</table>

**Notes:**
- Items with * are only available on selected models
- Two USB-C 3.2 Gen 2 ports support data transfer, Power Delivery and DisplayPort 1.4
**PERFORMANCE**

**Processor**

**Processor Family**
AMD Ryzen™ 5 / 7 PRO 6000 U Series Processor, supports up to 8 cores, up to 4.7GHz

<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 Graphics</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 Graphics</td>
</tr>
</tbody>
</table>

**Operating System**

**Operating System**
- Fedora Linux
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro

**Graphics**

**Graphics**

<table>
<thead>
<tr>
<th>Graphics Type</th>
<th>Type</th>
<th>Memory</th>
<th>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Radeon 660M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>AMD Radeon 680M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:
[1] Integrated AMD Radeon 660M / 680 graphics use system memory as dedicated video memory, from 512MB to 8GB (8GB video memory requires system memory >= 32GB).

**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 3840x2160@60Hz
- USB-C supports up to 5120x2880@60Hz (USB-C to DP)

**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 system board, no slots, dual-channel

**Memory Type**
LPDDR5-6400 non-ECC

**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, Dolby® Audio™

Microphone
Dual-microphone array, far-field, Dolby Voice

Camera**
- FHD 1080p + IR, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus

Battery

Battery**
- Integrated Li-Polymer 39.3Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

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

Notes:

DESIGN

Display

Display**(1)

<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>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>89°/89°/-/-</td>
<td>84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA</td>
<td>None</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100%</td>
<td>85°/85°/-/-</td>
<td>Low power, TÜV</td>
</tr>
</tbody>
</table>
Color Calibration
X-Rite factory color calibration (WQUXGA display)

Touchscreen**
- Add-on Film Touch, supports 10-point touch
- 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)[3]
317.7 x 226.9 x 17.9 mm (12.51 x 8.93 x 0.705 inches)

Weight[3][3]

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover</td>
<td>Starting at 1.4 kg (3.09 lbs)</td>
</tr>
</tbody>
</table>

Case Color
Black

Case Material
PC 50% GF + PC 20% CF (top), PPS (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] Starting weight is based on minimal configuration (integrated graphics, lowest capacity battery, no WWAN, etc).

CONNECTIVITY
Network
Ethernet
Gigabit Ethernet, supports Wake-on-LAN and AMD Pro Manageability

WLAN + Bluetooth®[1]
Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

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

SIM Card
• Gemalto eSIM card (physical)
• No physical SIM card inbox

NFC
• Near Field Communication
• No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

Ports[1]

Standard Ports
• 1x Ethernet (RJ-45)
• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x Security keyhole
• 1x USB 3.2 Gen 1
• 1x USB 3.2 Gen 1 (Always On)
• 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery and DisplayPort™ 1.4)

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 USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® P14s Gen 3 (AMD)

Monitor Cable
Monitor Cable
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort Adapter
• No monitor cable

SECURITY & PRIVACY
Security
Security Chip
Discrete TPM 2.0 (TCG certified) and Microsoft® Pluton TPM 2.0, one enabled at one time\(^1\)

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

Smart Card Reader
• Smart card reader
• No smart card reader

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

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• (Optional) Camera privacy shutter
• (Optional) IR camera for Windows Hello

Notes:
\(^1\) Microsoft Pluton TPM 2.0 is only applicable on Windows 11.

MANAGEABILITY

System Management

SERVICE

Warranty\(^1\)

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

Notes:
\(^1\) The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
97% PCC recycled plastic used in speaker enclosure
97% PCC recycled plastic used in the 52.5WHR battery
95% PCC recycled plastic used in 65W adapter
90% recycled and/or sustainable packaging
Low-temperature solder

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)

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

CERTIFICATIONS

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications
- MIL-Spec Test
  - MIL-STD-810H military test passed

Other Certifications
- (Optional) TÜV Rheinland® Eye Comfort Certification
- (Optional) TÜV Rheinland Low Blue Light

ISV Certifications
- ISV Certifications
  - Please visit ISV certifications for Lenovo Workstations

Feature with ** means that only one offering listed under the feature is configured on selected models.
• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
# OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>2</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>3</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>4</td>
<td>HDMI</td>
</tr>
<tr>
<td>5</td>
<td>USB 3.2 Gen 1 (one Always On)</td>
</tr>
<tr>
<td>6</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>7</td>
<td>Smart card reader *</td>
</tr>
<tr>
<td>8</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>9</td>
<td>Security keyhole</td>
</tr>
</tbody>
</table>

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

Processor

Processor Family
12th Generation P series Intel® Core™ i5 / i7 processor, supports up to 14 cores, up to 4.8GHz

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 i5-1240P</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 i5-1250P</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 i7-1260P</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 i7-1270P</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>

Operating System

Operating System**

- Red Hat Enterprise Linux 8.6 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware](#))
- Ubuntu Linux LTS
- Windows® 10 Home 64 Single Language
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro

Graphics

Graphics**

<table>
<thead>
<tr>
<th>Graphics Type</th>
<th>Type</th>
<th>Memory</th>
<th>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Iris Xe Graphics[1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® T550 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>30W</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:

[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support
Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- Thunderbolt supports up to 7680x4320@60Hz

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory

Max Memory
- Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200
- Up to 48GB (16GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots

---

ThinkPad P14s Gen 3 (Intel) - July 19 2023 2 of 9
One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

**Memory Type**

DDR4-3200 non-ECC

**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 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4</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] PCIe x4 SSD may be PCIe 3.0 x4 or PCIe 4.0 x4 as substitution.

**Removable Storage**

**Optical**

None

**Card Reader**

No card reader

**Multi-Media**

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3287 codec

**Speakers**

Stereo speakers, Dolby® Audio™

**Microphone**

- Dual-microphone array, Dolby Voice
- No microphone

**Camera**

- FHD 1080p + IR, 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 39.3Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Power Adapter**

**Power Adapter**

- 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
- 100W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

## Display

### Display**[1]**

<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>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</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>ICC Template color calibration, Low Blue Light, TÜV Eye Comfort, 84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard, 84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14”</td>
<td>2.2K (2240x1400)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low Blue Light, TÜV Eye Comfort, 84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14”</td>
<td>WQUXGA (3840x2400)</td>
<td>Add-on Film Touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>Dolby Vision™, HDR 400, X-Rite® Factory Color Calibration (ΔE&lt;2), Low Blue Light, TÜV Eye Comfort, 84% screen to body ratio, DC dimming</td>
</tr>
</tbody>
</table>

### Color Calibration**
- X-Rite factory color calibration
- ICC Template color calibration
- No color calibration

### Touchscreen**
- Add-on Film Touch, supports 10-point touch
- 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™**
3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 61 x 115 mm (2.4 x 4.53 inches)

### Mechanical

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover and integrated graphics</td>
<td>317.7 x 226.9 x 17.9 mm (12.51 x 8.93 x 0.7 inches)</td>
</tr>
<tr>
<td>Models with black cover and NVIDIA T550 graphics</td>
<td>317.7 x 226.9 x 17.95 mm (12.51 x 8.93 x 0.707 inches)</td>
</tr>
<tr>
<td>Models with grey cover</td>
<td>317.7 x 227.36 x 17.9 mm (12.51 x 8.95 x 0.7 inches)</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model with black cover</td>
<td>Starting at 1.38 kg (3.05 lbs)</td>
</tr>
<tr>
<td>Model with storm grey</td>
<td>Starting at 1.5 kg (3.31 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
- Black
- Storm grey

**Case Material**
- Models with black cover and integrated graphics: PC 50% GF + PC 20% CF (top), PPS (bottom)
- Models with black cover and discrete graphics: PC 50% GF + PC 20% CF (top), aluminium (bottom)
- Models with grey cover: aluminium (top), PPS (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. Starting weight is based on minimal configuration (integrated graphics, lowest capacity battery, no WWAN, etc).

### CONNECTIVITY

**Network**

**Ethernet**
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth®**
- Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)

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

**SIM Card**
- Gemalto eSIM card (physical)
- No physical SIM card inbox

**NFC**
- Near Field Communication
- No support

Notes:
[1] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations.
Ports

Standard Ports
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Security keyhole
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 2.0)
- 2x USB 3.2 Gen 1 (one Always On)

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 or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad P14s Gen 3

Monitor Cable

Monitor Cable**
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

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

BIOS Security
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security
- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello
MANAGEABILITY

System Management

System Management

• Intel vPro Enterprise
• Non-vPro

Notes:

[1] 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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

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

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)

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).

CERTIFICATIONS

Green Certifications

Green Certifications

• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered
• 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
• (Optional) TÜV Rheinland® Eye Comfort Certification
• (Optional) TÜV Rheinland Low Blue Light

ISV Certifications

ISV Certifications
Please visit ISV certifications for Lenovo Workstations

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

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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Ethernet (RJ-45)
2. USB4
3. USB-C 3.2 Gen 2
4. HDMI
5. USB 3.2 Gen 1 (Always On)
6. Headphone / microphone combo jack (3.5mm)
7. Smart card reader *
8. USB 3.2 Gen 1
9. Security keyhole

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

Processor

Processor Family
AMD Ryzen™ 5 / 7 PRO 7040U Series Processor, supports up to 8 cores, up to 5.1GHz

<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 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**

- Fedora Linux[1]
- Red Hat Enterprise Linux 9.1 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware][2])
- Ubuntu Linux LTS[3]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1] As preloaded OS, Fedora Linux will be available after November 2023.
[3] As preloaded OS, Ubuntu Linux will be available after October 2023.

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>AMD Radeon 740M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>AMD Radeon 780M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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®, USB-C® 3.2 Gen 2 and USB4®)
- HDMI supports up to 3840x2160@60Hz
- USB-C 3.2 Gen 2 and USB4 support up to 3840x2160@60Hz (USB-C to DP)

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory

- Models with 16GB LPDDR5x: 16GB soldered memory, not upgradable
- Models with 32GB LPDDR5x: 32GB soldered memory, not upgradable
- Models with 64GB LPDDR5x: 64GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5x-7500 non-ECC[1]

Notes:
[1] System comes with LPDDR5x-7500 DIMMs and will run at LPDDR5x-6400 due to platform limitations.
**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, far-field, Dolby Voice

**Camera**
- 5.0MP + IR discrete, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- HD 720p, with privacy shutter, fixed focus

**Battery**

**Battery**
- Integrated Li-Polymer 39.3Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

**Power Adapter**

**Power Adapter**
- 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

Notes:

**DESIGN**

**Display**

**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>14&quot;</td>
<td>WUXGA</td>
<td>Multi-IPS[1]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45%</td>
<td>85°/85°/85°/85°</td>
<td>84% screen to</td>
</tr>
</tbody>
</table>

---

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

## Color Calibration**
- X-Rite factory color calibration (OLED display)
- ICC Template color calibration (low power display)
- No color calibration

### Touchscreen
- On-cell multi-touch, supports 10-point touch (selected FHD display)
- Non-touch

#### Notes:
[1], [2], [3], [4] 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™
3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 61 x 115 mm (2.4 x 4.53 inches)

### Mechanical
#### Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover</td>
<td>317.7 x 226.9 x 17.9 mm (12.51 x 8.93 x 0.7 inches)</td>
</tr>
<tr>
<td>Models with gery cover</td>
<td>317.7 x 227.36 x 17.9 mm (12.51 x 8.95 x 0.7 inches)</td>
</tr>
</tbody>
</table>

#### Weight**(2)

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover</td>
<td></td>
</tr>
<tr>
<td>Models with gery cover</td>
<td></td>
</tr>
</tbody>
</table>
### Models with black cover
Starting at 1.34 kg (2.97 lbs)

### Models with grey cover
Starting at 1.38 kg (3.05 lbs)

**Case Color**
- Storm grey
- Villi black

**Case Material**
- Models with black cover: PC 50% GF + PC 20% CF (top), PPS (bottom)
- Models with grey cover: aluminium (top), PPS (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**
Gigabit Ethernet, Realtek RTL8111EPV, 1x RJ-45, supports Wake-on-LAN and AMD Pro Manageability

**WLAN + Bluetooth®**
- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

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

**SIM Card**
No physical SIM card inbox

**NFC**
- Near Field Communication
- No support

**Notes:**
1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

**Ports**

**Standard Ports**
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Security keyhole
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB4 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
- 2x USB 3.2 Gen 1 (one Always On)

**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 Thunderbolt or USB-C.
For more compatible docking solutions, please visit
Docking for ThinkPad P14s Gen 4 (AMD)

Monitor Cable

Monitor Cable

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

SECURITY & PRIVACY

Security

Security Chip
Discrete TPM 2.0 (TCG certified) and Microsoft® Pluton TPM 2.0, one enabled at one time[1]

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

Smart Card Reader
- Smart card reader
- No smart card reader

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

BIOS Security
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security
- (Optional) Ultrasonic Human Presence Detection for IR camera
- (Optional) Camera privacy shutter
- Bottom cover tamper detection
- (Optional) IR camera for Windows Hello

Notes:

[1] Microsoft Pluton TPM 2.0 is only applicable on Windows 11.

MANAGEABILITY

System Management

System Management
AMD PRO Manageability 2.0

SERVICE

Warranty[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery
90% PCC recycled plastic used in standard and slim 65W adapter
90% recycled and/or sustainable packaging

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)

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

CERTIFICATIONS

Green Certifications
Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• 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 is registered where applicable, please see https://www.epeat.net for registration status by country.
**Other Certifications**

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

Other Certifications
- (Optional) Eyesafe Certified 2.0
- (Optional) TÜV Rheinland® Eye Comfort Certification
- (Optional) TÜV Rheinland Low Blue Light

**ISV Certifications**

Please visit [ISV certifications for Lenovo Workstations](#)

- Feature with ** means that only one offering listed under the feature is configured on selected models.
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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

1. Ethernet (RJ-45)  
2. Thunderbolt 4  
3. Thunderbolt 4  
4. HDMI  
5. USB 3.2 Gen 1 (one Always On)  
6. Headphone / microphone combo jack (3.5mm)  
7. Smart card reader *  
8. USB 3.2 Gen 1  
9. Security keyhole  

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

Processor

Processor Family
13th Generation P series Intel® Core™ i5 / i7 processor, supports up to 14 cores, up to 5.2GHz

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 i5-1340P</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 i5-1350P</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 i7-1360P</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 i7-1370P</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>

Operating System

Operating System**

- Red Hat Enterprise Linux 9.1 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware][1])
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:


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[2]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® RTX A500 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>30W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
</tbody>
</table>

Notes:

[2] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- Thunderbolt supports up to 7680x4320@60Hz

Chipset

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory
Models with 16GB LPDDR5x: 16GB soldered memory, not upgradable
Models with 32GB LPDDR5x: 32GB soldered memory, not upgradable
Models with 64GB LPDDR5x: 64GB soldered memory, not upgradable
Models with DDR5 memory: up to 48GB (16GB soldered + 32GB SO-DIMM)

Memory Slots**
- Models with DDR5 memory: one memory soldered to system board, one DDR5 SO-DIMM slot, dual-channel capable
- Models with LPDDR5x memory: memory soldered to system board, no slots, dual-channel

Memory Type**
- DDR5-5600 non-ECC (models with integrated graphics)[1]
- LPDDR5x-7500 non-ECC (models with discrete graphics)[2]

Notes:
[1] System comes with DDR5-5600 DIMMs and will run at or DDR5-5200 due to platform limitations.
[2] System comes with LPDDR5x-7500 DIMMs and will run at LPDDR5x-4800 due to platform limitations.

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 x 2, Dolby® Audio™

Microphone
- Dual-microphone array, far-field, Dolby Voice
- No microphone (for special bid model)

Camera**
- 5.0MP + IR discrete, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- HD 720p, with privacy shutter, fixed focus
- No camera (for special bid model)

Battery

Battery**
- Integrated Li-Polymer 39.3Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Power Adapter

Power Adapter**[2]
- 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
- 100W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

Notes:

**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&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[^1]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[^2]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14&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>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ICC Template color calibration, Low power, Low Blue Light, Eyesafe® Certified 2.0, TÜV Eye Comfort, 84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[^4]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard, 84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14&quot;</td>
<td>2.2K (2240x1400)</td>
<td>None</td>
<td>IPS[^5]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°////</td>
<td>Low Blue Light, 84% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>14&quot;</td>
<td>2.8K (2880x1800)</td>
<td>None</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-glare, anti-reflection, anti-fingerprint</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>X-Rite® Factory Color Calibration, Low Blue Light, Eyesafe Certified 2.0, DisplayHDR™ True Black 500, Dolby Vision™, 84% screen to body ratio</td>
</tr>
</tbody>
</table>

**Color Calibration**

- X-Rite factory color calibration (OLED display)
- ICC Template color calibration (low power display)
- No color calibration

**Touchscreen**

- On-cell multi-touch, supports 10-point touch (selected FHD display)
- 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™
3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 61 x 115 mm (2.4 x 4.53 inches)

Mechanical
Dimensions (WxDxH)[1]

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover and integrated graphics</td>
<td>317.7 x 226.9 x 17.9 mm (12.51 x 8.93 x 0.7 inches)</td>
</tr>
<tr>
<td>Models with black cover and NVIDIA RTX A500 graphics</td>
<td>317.7 x 226.9 x 17.95 mm (12.51 x 8.93 x 0.707 inches)</td>
</tr>
<tr>
<td>Models with gery cover</td>
<td>317.7 x 227.36 x 17.9 mm (12.51 x 8.95 x 0.7 inches)</td>
</tr>
</tbody>
</table>

Weight[2]

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover</td>
<td>Starting at 1.34 kg (2.97 lbs)</td>
</tr>
<tr>
<td>Model with storm grey</td>
<td>Starting at 1.38 kg (3.05 lbs)</td>
</tr>
</tbody>
</table>

Case Color**
• Storm grey
• Villi black

Case Material**
• Models with black cover and integrated graphics: PC 50% GF + PC 20% CF (top), PPS (bottom)
• Models with black cover and discrete graphics: PC 50% GF + PC 20% CF (top), aluminium (bottom)
• Models with gery cover: aluminium (top), PPS (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**
• Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
• Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**[3]
• Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
• Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)

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

SIM Card
No physical SIM card inbox

NFC
• Near Field Communication
• No support

Notes:
[1] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

Ports[1]

Standard Ports
• 1x Ethernet (RJ-45)
• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x Security keyhole
• 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 2.0)
• 2x USB 3.2 Gen 1 (one Always On)

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 Thunderbolt or USB-C. For more compatible docking solutions, please visit Docking for ThinkPad P14s Gen 4 (Intel)

Monitor Cable

Monitor Cable
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort 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
• Smart card reader
• No smart card reader

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

BIOS Security
• Power-on password
• Supervisor password
NVMe password
Self-healing BIOS

Other Security
- (Optional) Ultrasonic Human Presence Detection for IR camera
- (Optional) Camera privacy shutter
- Bottom cover tamper detection
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management
- Intel vPro Enterprise[^1]
- Non-vPro

Notes:
[^1] Intel vPro offers a superset of DASH’s defined capabilities.

SERVICE

Warranty[^1]
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

Notes:
[^1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
98% PCC recycled plastic used in speaker enclosure
97% PCC recycled plastic used in the battery
90% PCC recycled plastic used in standard and slim 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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).

ACCESSORIES

Bundled Accessories

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

CERTIFICATIONS

Green Certifications

• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered
• 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications

• (Optional) Eyesafe Certified 2.0
• (Optional) TÜV Rheinland® Eye Comfort Certification
• (Optional) TÜV Rheinland Low Blue Light

ISV Certifications

Please visit ISV certifications for Lenovo Workstations

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

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### OVERVIEW

1. Headphone / microphone combo jack (3.5mm)  
2. SD card reader  
3. HDMI  
4. 2x USB 3.2 Gen 1  
5. Ethernet (RJ-45)  
6. Kensington Security Slot  
7. Power connector  
8. USB4  
9. Smart card reader *

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

Processor

Processor Family
AMD Ryzen™ 5 / 7 PRO 6000 H Series Processor, supports up to 8 cores, up to 4.7GHz

<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 6650H</td>
<td>6</td>
<td>12</td>
<td>3.3GHz</td>
<td>4.5GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon™ 660M Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 6850H</td>
<td>8</td>
<td>16</td>
<td>3.2GHz</td>
<td>4.7GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon 680M Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**
- Red Hat Enterprise Linux 8.6 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware](https://www.redhat.com/certified-hardware))
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

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>NVIDIA® RTX A2000 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
<td>Dynamic Boost 2.0, DirectX® 12</td>
</tr>
<tr>
<td>NVIDIA T1200 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA T600 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support
Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and USB-C®)
- HDMI supports up to 5120x2880@30Hz
- USB-C supports up to 5120x2880@60Hz (USB-C to DP)

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory
Up to 64GB DDR5-4800

Memory Slots
Two DDR5 SO-DIMM slots, dual-channel capable

Memory Type
DDR5-4800 non-ECC

Storage

Storage Support®
Up to two drives, 2x M.2 SSD
- M.2 2280 SSD up to 4TB, 2TB each

Storage Slot

ThinkPad P15v Gen 3 (AMD) - September 18 2023
Two M.2 2280 PCIe® 4.0 x4 slots

### 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**
SD 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**
- HD 720p + IR hybrid, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus
- No camera

### Battery

**Battery**
Integrated Li-Polymer 68Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

### Power Adapter

**Power Adapter**
- 135W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- No power adapter

**Notes:**

### DESIGN

### Display

**Display**

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution (X/Y)</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>15.6”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/-/-/</td>
<td>DC dimming</td>
</tr>
<tr>
<td>15.6”</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>85°/85°/-/-/</td>
<td>-</td>
</tr>
<tr>
<td>15.6”</td>
<td>UHD (3840x2160)</td>
<td>None</td>
<td>IPS</td>
<td>600nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1400:1</td>
<td>100% Adobe® RGB</td>
<td>85°/85°/-/-/</td>
<td>Dolby Vision™, DisplayHDR™ 400, optional X-Rite®, Factory Color Calibration, DC</td>
</tr>
</tbody>
</table>
Color Calibration
- X-Rite factory color calibration (UHD display)
- No color calibration

Touchscreen
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, numeric keypad
Keyboard Backlight
LED backlight
UltraNav™
3-button TrackPoint® pointing device and Mylar® surface multi-touch touchpad

Mechanical
Dimensions (WxDxH)\(^1\)
366.5 x 250 x 22.7 mm (14.43 x 9.84 x 0.89 inches)
Weight\(^2\)
Starting at 2.26 kg (4.98 lbs)
Case Color
Black
Case Material
PC-ABS (top), PC-ABS (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
Gigabit Ethernet, Realtek RTL8111EPV, 1x RJ-45, supports Wake-on-LAN and AMD Pro Manageability
WLAN + Bluetooth®\(^[1]\)
Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
WWAN
No support
SIM Card
No physical SIM card inbox
NFC
No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

Ports\(^{[1]}\)
Standard Ports
• 1x Ethernet (RJ-45)
• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x Power connector
• 1x SD card reader
• 1x Security keyhole
• 1x USB 3.2 Gen 1
• 1x USB 3.2 Gen 1 (Always On)
• 1x USB4® 40Gbps (support data transfer and DisplayPort™ 1.4)

Optional Ports
1x Smart card reader

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 USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® P15v Gen 3 (AMD)

Monitor Cable
Monitor Cable
• (Optional) Lenovo USB-C to DisplayPort Adapter
• (Optional) Lenovo HDMI to VGA Monitor Adapter
• (Optional) Lenovo USB-C to VGA Adapter

SECURITY & PRIVACY

Security
Security Chip
Discrete TPM 2.0 (TCG certified) and Microsoft® Pluton TPM 2.0, one enabled at one time[1]

Physical Locks
Kensington® Security Slot™, 3 x 7 mm

Smart Card Reader
• Smart card reader
• No smart card reader

Fingerprint Reader
Touch style fingerprint reader on palm rest, match-on-chip

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• (Optional) Camera privacy shutter
• Bottom cover tamper detection
• (Optional) IR camera for Windows Hello

Notes:
[1] Microsoft Pluton TPM 2.0 is only applicable on Windows 11.
MANAGEABILITY

System Management

AMD PRO Manageability

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Operating Environment

Temperature
- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

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).

CERTIFICATIONS

Green Certifications

(Optional) ENERGY STAR® 8.0
(Optional) EPEAT™ Gold Registered
RoHS compliant
TCO Certified

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

Mil-Spec Test
- MIL-STD-810H military test passed
ISV Certifications

Please visit ISV certifications for Lenovo Workstations

- Feature with ** means that only one offering listed under the feature is configured on selected models.
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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Headphone / microphone combo jack (3.5mm)  
2. SD card reader  
3. HDMI  
4. 2x USB 3.2 Gen 1  
5. Ethernet (RJ-45)  
6. Kensington Security Slot  
7. Power connector  
8. Thunderbolt 4  
9. Smart card reader *

Notes:
- Items with * are only available on selected models
- Nano-SIM card slot on the rear side (not shown on the sample product above)
PERFORMANCE

Processor
Processor Family
12th Generation H series Intel® Core™ i5 / i7 / i9 processor, supports up to 14 cores, up to 5.0GHz

<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 i5-12500H</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 2.5GHz / E-core 1.8GHz</td>
<td>P-core 4.5GHz / E-core 3.3GHz</td>
<td>18MB</td>
<td>Intel Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core i7-12700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.3GHz / E-core 1.7GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>24MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i7-12800H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.4GHz / E-core 1.8GHz</td>
<td>P-core 4.8GHz / E-core 3.7GHz</td>
<td>24MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i9-12900H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.5GHz / E-core 1.8GHz</td>
<td>P-core 5.0GHz / E-core 3.8GHz</td>
<td>24MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System
- Red Hat Enterprise Linux 8.6 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Graphics

<table>
<thead>
<tr>
<th>Graphics Type</th>
<th>Memory</th>
<th>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Iris Xe Graphics[1]</td>
<td>Integrated</td>
<td>Shared CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® RTX A2000 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
</tr>
<tr>
<td>NVIDIA T1200 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
</tr>
<tr>
<td>NVIDIA T600 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
</tr>
</tbody>
</table>

Notes:
[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support
Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- Thunderbolt supports up to 5120x3200@60Hz (Thunderbolt or USB-C® to DP)

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory

Max Memory
Up to 64GB DDR5-4800

Memory Slots
Two DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**
DDR5-4800 non-ECC

**Storage**

**Storage Support**
Up to two drives, 2x M.2 SSD
- M.2 2280 SSD up to 4TB, 2TB each
- RAID 0/1 support

**Storage Slot**
Two M.2 2280 PCIe® 4.0 x4 slots

**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>

**RAID**
RAID 0/1 support

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

**Removable Storage**

**Optical**
None

**Card Reader**
SD 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, far-field, Dolby Voice
- No microphone

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

**Battery**

**Battery**
Integrated Li-Polymer 68Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Power Adapter**

**Power Adapter**
- 135W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- No power adapter

**Notes:**

**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>15.6” FHD</td>
<td>(1920x1080)</td>
<td>None IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/-/-</td>
<td>DC dimming</td>
</tr>
<tr>
<td>15.6” FHD</td>
<td>(1920x1080)</td>
<td>Multi-touch IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/-/-</td>
<td>DC dimming</td>
</tr>
<tr>
<td>15.6” FHD</td>
<td>(1920x1080)</td>
<td>None IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>85°/85°/-/-</td>
<td>DC dimming</td>
</tr>
<tr>
<td>15.6” UHD</td>
<td>(3840x2160)</td>
<td>None IPS</td>
<td>600nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1400:1</td>
<td>100% Adobe® RGB</td>
<td>85°/85°/-/-</td>
<td>Dolby Vision™, DisplayHDR™ 400, optional X-Rite® Factory Color Calibration, DC dimming</td>
</tr>
</tbody>
</table>

**Color Calibration**
- X-Rite factory color calibration (UHD display)
- No color calibration

**Touchscreen**
- On-cell multi-touch, supports 10-point touch (selected FHD display)
- 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, numeric keypad

**Keyboard Backlight**
- LED backlight
- Non-backlight

**UltraNav™**
3-button TrackPoint® pointing device and Mylar® surface multi-touch touchpad

### Mechanical

**Dimensions (WxDxH)**
366.5 x 250 x 22.7 mm (14.43 x 9.84 x 0.89 inches)

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with discrete graphics</td>
<td>Starting at 2.226 kg (4.91 lbs)</td>
</tr>
<tr>
<td>Models with integrated graphics</td>
<td>Starting at 2.096 kg (4.62 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
Black

**Case Material**
PC-ABS (top), PC-ABS (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**
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, MIMO 4x4, M.2 card
- No support

SIM Card
- Gemalto eSIM card (physical)
- No physical SIM card inbox

NFC
No support

Notes:
[1] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations.

Ports[2]

Standard Ports
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector
- 1x SD card reader
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 2x USB 3.2 Gen 1 (one Always On)

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.
[2] Power Delivery only supports power-out for charging peripherals.

Docking

Docking
Various docking solutions supported via Thunderbolt, USB-C, or USB-A.
For more compatible docking solutions, please visit Docking for ThinkPad® P15v Gen 3 (Intel)

Monitor Cable

Monitor Cable
- (Optional) Lenovo USB-C to DisplayPort Adapter
- (Optional) Lenovo HDMI to VGA Monitor Adapter
- (Optional) Lenovo USB-C to VGA Adapter
Security

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

Physical Locks
Kensington® Security Slot™, 3 x 7 mm

Smart Card Reader
• Smart card reader
• No smart card reader

Fingerprint Reader
Touch style fingerprint reader on palm rest, match-on-chip

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• (Optional) Camera privacy shutter
• Bottom cover tamper detection
• (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management**[1]
• Intel vPro Enterprise
• Intel vPro Essentials
• Non-vPro

Notes:
[1] Intel vPro offers a superset of DASH’s defined capabilities.

SERVICE

Warranty[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
90% recycled and/or sustainable packaging

Operating Environment
Temperature[1]
Operating: 5°C (41°F) to 35°C (95°F)
Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
Storage without package: 5°C (41°F) to 43°C (109°F)

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).

CERTIFICATIONS

Green Certifications
Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered
• 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

ISV Certifications

ISV Certifications
Please visit ISV certifications for Lenovo Workstations

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

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OVERVIEW

1. USB 3.2 Gen 1 (one Always On)
2. USB-C 3.2 Gen 2
3. Headphone / microphone combo jack (3.5mm)
4. Nano-SIM card slot *
5. Smart card reader *
6. SD Express 7.0 card reader
7. USB 3.2 Gen 1
8. Kensington Nano Security Slot
9. Power connector
10. Thunderbolt 4
11. Thunderbolt 4
12. HDMI

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

Processor

Processor Family

12th Generation HX series Intel® Core™ i5 / i7 / i9 processor, supports up to 16 cores, up to 5.0GHz

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 i5-12600HX</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 2.5GHz / E-core 1.8GHz</td>
<td>P-core 4.6GHz / E-core 3.3GHz</td>
<td>18MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-12800HX</td>
<td>16 (8 P-core + 8 E-core)</td>
<td>24</td>
<td>P-core 2.0GHz / E-core 1.5GHz</td>
<td>P-core 4.8GHz / E-core 3.4GHz</td>
<td>25MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-12850HX</td>
<td>16 (8 P-core + 8 E-core)</td>
<td>24</td>
<td>P-core 2.1GHz / E-core 1.5GHz</td>
<td>P-core 4.8GHz / E-core 3.4GHz</td>
<td>25MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i9-12900HX</td>
<td>16 (8 P-core + 8 E-core)</td>
<td>24</td>
<td>P-core 2.3GHz / E-core 1.7GHz</td>
<td>P-core 5.0GHz / E-core 3.6GHz</td>
<td>30MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i9-12950HX</td>
<td>16 (8 P-core + 8 E-core)</td>
<td>24</td>
<td>P-core 2.3GHz / E-core 1.7GHz</td>
<td>P-core 5.0GHz / E-core 3.6GHz</td>
<td>30MB</td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**

- Fedora Linux
- Red Hat Enterprise Linux 8.6 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware](https://www.redhat.com/certified-hardware))
- Ubuntu Linux LTS
- Ubuntu Linux with Data Science Preload
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro

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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® RTX A3000 12GB Laptop GPU</td>
<td>Discrete</td>
<td>12GB GDDR6 ECC</td>
<td>115W</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA RTX A4500 Laptop GPU</td>
<td>Discrete</td>
<td>16GB GDDR6 ECC</td>
<td>115W</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA RTX A5500 Laptop GPU</td>
<td>Discrete</td>
<td>16GB GDDR6 ECC</td>
<td>115W</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
<tr>
<td>Intel Arc™ Pro A30M Graphics</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Deep Link technologies</td>
</tr>
<tr>
<td>NVIDIA RTX A1000 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>60W</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
<tr>
<td>NVIDIA RTX A2000 8GB Laptop GPU</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>60W</td>
<td>Dynamic Boost 2.0, DirectX 12</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support

Supports up to 5 independent displays (native display and 4 external monitors via HDMI®, USB-C® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz on integrated or Arc graphics models; 7680x4320@60Hz on NVIDIA graphics models
- USB-C supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz
**Chipset**

Intel WM690 chipset

**Memory**

**Max Memory**

Up to 128GB (4x 32GB DDR5 SO-DIMM)

**Memory Slots**

Four DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**

- DDR5-4800 ECC
- DDR5-4800 non-ECC

**Memory Protection**

ECC on models with ECC DIMMs and ECC capable processor (i5-12600HX / i7-12850HX / i9-12950HX)

**Notes:**

[1] System comes with DDR5-4800 memory and will run at DDR5-4000 and DDR5-3600 due to platform limitation: 4x 32GB configuration runs at DDR5-3600, other configurations run at DDR5-4000.

**Storage**

**Storage Support**

Up to two drives, 2x M.2 SSD
- M.2 2280 SSD up to 8TB, 4TB each
- RAID 0/1 support

**Storage Slot**

Two M.2 2280 PCIe® 4.0 x4 slots

**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 / 4TB</td>
<td>Opal 2.0</td>
</tr>
</tbody>
</table>

**RAID**

RAID 0/1 support

**Notes:**

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

**Removable Storage**

**Card Reader**

SD Express 7.0 card reader

**Multi-Media**

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3306 codec

**Speakers**

Stereo speakers, 2W x2, Dolby® Atmos®

**Microphone**

- Dual-microphone array, far-field, Dolby Voice
- No microphone

**Camera**

- FHD 1080p + IR, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- No camera
Battery
Integrated Li-Polymer 94Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 230W AC adapter

Power Adapter
Power Adapter**[1]**
- 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

Notes:

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>16&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>1200:1</td>
<td>100% sRGB</td>
<td>89°/89°/89°/89°</td>
<td>Low Blue Light, X-Rite® Factory Color Calibration, 83.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQXGA (2560x1600)</td>
<td>None</td>
<td>IPS[2]</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 Blue Light, X-Rite Factory Color Calibration, 83.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQUXGA (3840x2400)</td>
<td>None</td>
<td>IPS[3]</td>
<td>600nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% Adobe® RGB</td>
<td>89°/89°/89°/89°</td>
<td>Low Blue Light, Dolby Vision™, DisplayHDR™ 400, X-Rite Factory Color Calibration, 83.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQUXGA (3840x2400)</td>
<td>Multi-touch</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>87.5°/87.5°/87.5°/87.5°</td>
<td>Low Blue Light, Dolby Vision, HDR 500 True Black, X-Rite Factory Color Calibration, 83.4% screen to body ratio</td>
</tr>
</tbody>
</table>
Color Calibration
X-Rite factory color calibration

Touchscreen
• OGM (One Glass Metal mesh) 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

Pen
• Lenovo Precision Pen 2 with built-in rechargeable battery, 4096 levels of pressure sensitivity, tilt detection, supports WGP, AES 2.0 and MPP 2.0 protocols. For more information, please read Lenovo Precision Pen 2
• No pen (purchase separately)
• No support

Keyboard
6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, numeric keypad

Keyboard Backlight
LED backlight

UltraNav™
3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67.6 x 115 mm (2.66 x 4.53 inches)

Mechanical

Dimensions (WxDxH)[3]
364 x 266 x 30.23 mm (14.3 x 10.5 x 1.2 inches)

Weight[2]
Starting at 2.95 kg (6.5 lbs)

Case Color
Storm grey (top), villi black (bottom)

Case Material
AL5052 (97.25% aluminium, 2.5% magnesium, and 0.25% chromium; top), PPS + 50% GF (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®[1]
• Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)
• No WLAN and Bluetooth

WWAN**
• Wireless WAN upgradable to 4G (with antenna ready)
• Fibocom L860-GL-16, 4G LTE CAT16, MIMO 4x4, M.2 card
• No support

SIM Card
• Gemalto eSIM card (physical)
• No physical SIM card inbox

NFC
Near Field Communication
• No support

Notes:
[1] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations.

Ports

Standard Ports
• 1x Headphone / microphone combo jack (3.5mm)
• 1x SD Express 7.0 card reader
• 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
• 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
• 2x USB 3.2 Gen 1 (one Always On)
• Models with NVIDIA graphics: 1x HDMI 2.1, up to 8K/60Hz
• Models with integrated or Intel Arc graphics: 1x HDMI 2.1, up to 4K/60Hz

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.
[2] Power Delivery only supports power-out for charging peripherals.

Docking

Docking
Various docking solutions supported via Thunderbolt or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® P16 Gen 1

Monitor Cable

Monitor Cable
• (Optional) Lenovo USB-C to DisplayPort Adapter
• (Optional) Lenovo HDMI to VGA Monitor Adapter
• (Optional) Lenovo USB-C to VGA Adapter
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort 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
• 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
- NVMe password
- Self-healing BIOS

Other Security
- (Optional) Camera privacy shutter
- Bottom cover tamper detection
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management
- Intel vPro® Enterprise\(^1\)
- Non-vPro

Notes:
\(^1\) Intel vPro offers a superset of DASH’s defined capabilities.

SERVICE

Warranty\(^1\)

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

Notes:
\(^1\) The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Operating Environment
Temperature\(^1\)
- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

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
Lenovo USB-C to Ethernet Adapter (1Gbps)
Lenovo USB-C to Ethernet Adapter (2.5Gbps)
None

CERTIFICATIONS

Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications
Mil-Spec Test
MIL-STD-810H military test passed

Other Certifications
TÜV Rheinland® Low Blue Light

ISV Certifications
ISV Certifications
Please visit ISV certifications for Lenovo Workstations

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

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The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. USB 3.2 Gen 1 (one Always On)  
2. USB-C 3.2 Gen 2  
3. Headphone / microphone combo jack (3.5mm)  
4. Nano-SIM card slot *  
5. Smart card reader *  
6. SD Express 7.0 card reader  
7. USB 3.2 Gen 1  
8. Kensington Nano Security Slot  
9. Power connector  
10. Thunderbolt 4  
11. Thunderbolt 4  
12. HDMI

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

Processor

Processor Family
13th Generation HX series Intel® Core™ i5 / i7 / i9 processor, supports up to 24 cores, up to 5.6GHz

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 i5-13600HX</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.6GHz / E-core 1.9GHz</td>
<td>P-core 4.8GHz / E-core 3.6GHz</td>
<td>24MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-13700HX</td>
<td>16 (8 P-core + 8 E-core)</td>
<td>24</td>
<td>P-core 2.1GHz / E-core 1.5GHz</td>
<td>P-core 5.0GHz / E-core 3.7GHz</td>
<td>30MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-13850HX</td>
<td>20 (8 P-core + 12 E-core)</td>
<td>28</td>
<td>P-core 2.1GHz / E-core 1.5GHz</td>
<td>P-core 5.3GHz / E-core 3.8GHz</td>
<td>30MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i9-13950HX</td>
<td>24 (8 P-core + 16 E-core)</td>
<td>32</td>
<td>P-core 2.2GHz / E-core 1.6GHz</td>
<td>P-core 5.5GHz / E-core 4.0GHz</td>
<td>36MB</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i9-13980HX</td>
<td>24 (8 P-core + 16 E-core)</td>
<td>32</td>
<td>P-core 2.2GHz / E-core 1.6GHz</td>
<td>P-core 5.6GHz / E-core 4.0GHz</td>
<td>36MB</td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**
- Fedora Linux
- Red Hat Enterprise Linux 9.2 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware](#)[1]
- Ubuntu Linux LTS
- Ubuntu Linux with Data Science Preload
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

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 UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® RTX 3500 Ada Generation Laptop GPU</td>
<td>Discrete</td>
<td>12GB GDDR6 ECC</td>
<td>115W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>NVIDIA RTX 4000 Ada Generation Laptop GPU</td>
<td>Discrete</td>
<td>12GB GDDR6 ECC</td>
<td>115W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>NVIDIA RTX 5000 Ada Generation Laptop GPU</td>
<td>Discrete</td>
<td>16GB GDDR6 ECC</td>
<td>115W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>Intel Arc™ Pro A30M Graphics</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Deep Link technologies</td>
</tr>
<tr>
<td>NVIDIA RTX A1000 Laptop GPU</td>
<td>Discrete</td>
<td>6GB GDDR6</td>
<td>60W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>NVIDIA RTX 2000 Ada Generation Laptop GPU</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>60W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support
Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)

- HDMI supports up to 3840x2160@60Hz on integrated or Arc graphics models; 7680x4320@60Hz on NVIDIA graphics models
- Thunderbolt supports up to 5120x3200@60Hz

**Chipset**

*Intel WM790 chipset*

**Memory**

**Max Memory**
Up to 192GB (4x 48GB DDR5 SO-DIMM)

**Memory Slots**
Four DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**
- DDR5-5600 ECC
- DDR5-5600 non-ECC

**Memory Protection**
ECC on models with ECC DIMMs and ECC capable processor (i5-13600HX / i7-13850HX / i9-13950HX)

**Notes:**

[1] System comes with DDR5-5600 memory and will run at lower speed due to platform limitations:
- 4x 32GB / 4x 48GB configurations run at DDR5-3600.
- Other configurations run at DDR5-4000.

**Storage**

**Storage Support**
Up to two drives, 2x M.2 SSD
- M.2 2280 SSD up to 8TB, 4TB each
- RAID 0/1 support

**Storage Slot**
Two M.2 2280 PCIe® 4.0 x4 slots

**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 / 4TB</td>
<td>Opal 2.0</td>
</tr>
</tbody>
</table>

**RAID**
RAID 0/1 support

**Notes:**

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

**Removable Storage**

**Card Reader**
SD Express 7.0 card reader

**Multi-Media**

**Audio Chip**
High Definition (HD) Audio, Realtek® ALC3306 codec

**Speakers**
Stereo speakers, 2W x2, Dolby® Atmos®

**Microphone**
- Dual-microphone array, far-field, Dolby Voice
- No microphone
Camera
- FHD 1080p + IR hybrid, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery
- Integrated Li-Polymer 94Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 230W AC adapter

Power Adapter
- 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

Notes: [1] AC adapter offerings depend on the country.

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>Refresh Rate</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>16&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>1200:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85° / 85° / 85° / 85°</td>
<td>Eyesafe Certified 2.0, Low Blue Light, X-Rite Factory Color Calibration, 83.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQXGA (2560x1600)</td>
<td>None</td>
<td>IPS[2]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>165Hz</td>
<td>89° / 89° / 89° / 89°</td>
<td>Eyesafe Certified 2.0, Low Blue Light, X-Rite Factory Color Calibration, 83.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQUXGA (3840x2400)</td>
<td>None</td>
<td>IPS[3]</td>
<td>800nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% DCI-P3</td>
<td>60Hz</td>
<td>85° / 85° / 85° / 85°</td>
<td>Eyesafe Certified 2.0, TÜV Low Blue Light, DisplayHDR™ 400, Dolby Vision™, X-Rite Factory Color Calibration, 83.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQUXGA (3840x2400)</td>
<td>Multi-touch</td>
<td>OLED</td>
<td>SDR 400nits / HDR 500nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>60Hz</td>
<td>87.5° / 87.5° / 87.5° / 87.5°</td>
<td>Eyesafe Certified 2.0, TÜV Low Blue Light, Dolby Vision, DisplayHDR</td>
</tr>
</tbody>
</table>
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X-Rite factory color calibration

Touchscreen
- OGM (One Glass Metal mesh) multi-touch, supports 10-point touch (OLED display)
- Non-touch

Notes:
[1], [2], [3] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

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- No pen (purchase separately)
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LED backlight

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Dimensions (WxDxH)[4]
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Storm grey (top), villi black (bottom)

Case Material
AL5052 (97.25% aluminium, 2.5% magnesium, and 0.25% chromium; top), PPS + 50% GF (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[4]

WLAN + Bluetooth®
- Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)[2]
- No WLAN and Bluetooth

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
**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:**

1. Ethernet support via optional docking or Lenovo USB-C® to Ethernet Adapter, up to 2.5GbE.
2. Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

**Ports[^1]**

**Standard Ports[^2]**
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD Express 7.0 card reader
- 1x USB-C 3.2 Gen 2 (support data transfer and Power Delivery 3.0)
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 2x USB 3.2 Gen 1 (one Always On)
- Models with NVIDIA graphics: 1x HDMI 2.1, up to 8K/60Hz
- Models with integrated or Intel Arc graphics: 1x HDMI 2.1, up to 4K/60Hz

**Optional Ports[^3]**
- 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.
2. Power Delivery only supports power-out for charging peripherals.

**Docking**

Various docking solutions supported via Thunderbolt or USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad® P16 Gen 2](#)

**Monitor Cable**

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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**
• 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
• NVMe password
• Self-healing BIOS

Other Security
• (Optional) Ultrasonic Human Presence Detection for IR camera
• (Optional) Camera privacy shutter
• Bottom cover tamper detection
• (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management
System Management
• Intel vPro® Enterprise\(^{[1]}\)
• Non-vPro

Notes:
\(^{[1]}\) Intel vPro offers a superset of DASH’s defined capabilities.

SERVICE

Warranty\(^{[1]}\)

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

Notes:
\(^{[1]}\) The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

ENVIRONMENTAL

Operating Environment
Temperature\(^{[1]}\)
• Operating: 5°C (41°F) to 35°C (95°F)
• Storage and transportation in original shipping packaging: -20°C (-4°C) to 60°C (140°F)
• Storage without package: 5°C (41°F) to 43°C (109°F)

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

- Lenovo USB-C to Ethernet Adapter (2.5Gbps)
- None

CERTIFICATIONS

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- Eyesafe Certified 2.0
- TÜV Rheinland® Low Blue Light

ISV Certifications

ISV Certifications

Please visit ISV certifications for Lenovo Workstations

• 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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Ethernet (RJ-45)  
2. USB-C 3.2 Gen 2  
3. USB-C 3.2 Gen 2  
4. HDMI  
5. USB 3.2 Gen 1 (Always On)  
6. Headphone / microphone combo jack (3.5mm)  
7. Smart card reader *  
8. USB 3.2 Gen 1  
9. Security keyhole  

Notes:
- Items with * are only available on selected models
- Two USB-C 3.2 Gen 2 ports support data transfer, Power Delivery and DisplayPort 1.4
PERFORMANCE

Processor

Processor Family
AMD Ryzen™ 5 / 7 PRO 6000 Series Processor

**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</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 Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO</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 Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System
- Fedora Linux
- Red Hat Enterprise Linux 8.6 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware](#))
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro

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>AMD Radeon 660M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>AMD Radeon 680M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:
[1] Integrated AMD Radeon 660M / 680 graphics use system memory as dedicated video memory, from 512MB to 8GB (8GB video memory requires system memory >= 32GB).

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 3840x2160@60Hz
- USB-C supports up to 5120x2880@60Hz (USB-C to DP)

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
LPDDR5-6400 non-ECC

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, far-field, Dolby Voice
- No microphone

**Camera**

- FHD 1080p + IR, 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 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 86Wh battery

**Power Adapter**

**Power Adapter**

- 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
- 100W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

Notes:


**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>
<tbody>
<tr>
<td>16&quot; WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>85.4% screen to body ratio, DC dimming</td>
<td></td>
</tr>
</tbody>
</table>

ThinkPad P16s Gen 1(AMD) - September 18 2023
<table>
<thead>
<tr>
<th>16&quot;</th>
<th>WUXGA (1920x1200)</th>
<th>Multi-touch</th>
<th>IPS</th>
<th>300nits</th>
<th>Anti-glare</th>
<th>16:10</th>
<th>800:1</th>
<th>45% NTSC</th>
<th>85°/85°/85°/85°</th>
<th>85.4% screen to body ratio, DC dimming</th>
</tr>
</thead>
<tbody>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>89°/89°/89°/89°</td>
<td>ICC Template color calibration, Low power, Low blue light, TUV Eye Comfort, 85.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard, Low Blue Light, TUV Eye Comfort, 85.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&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>Dolby Vision™, X-Rite® Factory Color Calibration (ΔE&lt;2), Low blue light, TUV Eye Comfort, 85.4% screen to body ratio, DC dimming</td>
</tr>
</tbody>
</table>

**Color Calibration**

- X-Rite factory color calibration (WQXGA display)
- ICC Template color calibration (selected WUXGA display)
- No color calibration

**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, numeric keypad

**Keyboard Backlight**

- LED backlight
- Non-backlight

**UltraNav™**

3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67 x 115 mm (2.64 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**

361.98 x 255.5 x 20.5 mm (14.25 x 10.06 x 0.81 inches)

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover</td>
<td>Starting at 1.81 kg (3.99 lbs)</td>
</tr>
<tr>
<td>Models with grey cover</td>
<td>Starting at 1.85 kg (4.08 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**

- Black
- Storm grey

**Case Material**

- Models with black cover: PC 50% GF + PC 20% CF (top), PPS (bottom)
- Models with grey cover: aluminium (top), PPS (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] Starting weight is based on minimal configuration (integrated graphics, lowest capacity battery, no WWAN, etc).

**CONNECTIVITY**

**Network**

**Ethernet**
- Gigabit Ethernet, supports Wake-on-LAN
- Gigabit Ethernet, supports Wake-on-LAN and AMD Pro Manageability

**WLAN + Bluetooth**
- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

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

**SIM Card**
- Gemalto eSIM card (physical)
- No physical SIM card inbox

**NFC**
- Near Field Communication
- No support

Notes:

[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

**Ports**

**Standard Ports**
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Security keyhole
- 2x USB 3.2 Gen 1 (one Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery and DisplayPort™ 1.4)

**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 USB-C. For more compatible docking solutions, please visit [Docking for ThinkPad P16s Gen 1 (AMD)]

### Monitor Cable

Monitor Cable**

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

### SECURITY & PRIVACY

#### Security

**Security Chip**

Discrete TPM 2.0 (TCG certified) and Microsoft® Pluton TPM 2.0, one enabled at one time\(^2\)

**Physical Locks**

Kensington® Nano Security Slot™, 2.5 x 6 mm

**Smart Card Reader**

- Smart card reader
- No smart card reader

**Fingerprint Reader**

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

**BIOS Security**

- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

**Other Security**

- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello

---

**Notes:**

[1] Discrete TPM 2.0 is for special bid only.

[2] Microsoft Pluton TPM 2.0 is only applicable on Windows 11.

### MANAGEABILITY

#### System Management

**System Management**

- Non-DASH
- AMD PRO Manageability

### SERVICE

#### Warranty\(^1\)

**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

---

**Notes:**
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
97% PCC recycled plastic used in speaker enclosure
97% PCC recycled plastic used in the 52.5Wh battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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

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

CERTIFICATIONS

Green Certifications

(Optional) ENERGY STAR® 8.0
(Optional) EPEAT™ Gold Registered[2]
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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
- (Optional) TÜV Rheinland® Eye Comfort Certification
- (Optional) TÜV Rheinland Low Blue Light
ISV Certifications

Please visit ISV certifications for Lenovo Workstations

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## OVERVIEW

<table>
<thead>
<tr>
<th>1. Ethernet (RJ-45)</th>
<th>6. Headphone / microphone combo jack (3.5mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Thunderbolt 4</td>
<td>7. Smart card reader *</td>
</tr>
<tr>
<td>3. Thunderbolt 4</td>
<td>8. USB 3.2 Gen 1</td>
</tr>
<tr>
<td>4. HDMI</td>
<td>9. Security keyhole</td>
</tr>
<tr>
<td>5. USB 3.2 Gen 1 (Always On)</td>
<td></td>
</tr>
</tbody>
</table>

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

Processor

Processor Family
12th Generation P series Intel® Core™ i5 / i7 processor, supports up to 14 cores, up to 4.8GHz

<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 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 i5-1250P</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 i7-1260P</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 i7-1270P</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>

Operating System

Operating System**
- Red Hat Enterprise Linux 8.6 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware](#))
- Ubuntu Linux LTS
- Windows® 10 Home 64 Single Language
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro

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[^1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® T550 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>30W</td>
<td>DirectX X12</td>
</tr>
</tbody>
</table>

Notes:
[^1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support
Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- Thunderbolt supports up to 7680x4320@60Hz

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory

Max Memory
- Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200
- Up to 48GB (16GB soldered + 32GB SO-DIMM) DDR4-3200
One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

**Memory Type**

DDR4-3200 non-ECC

**Storage**

**Storage Support**

One drive, up to 2TB M.2 2280 SSD

**Storage Slot**

One M.2 2280 PCIe® 4.0 x4 slot

<table>
<thead>
<tr>
<th>Storage 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 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4</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] PCIe x4 SSD may be PCIe 3.0 x4 or PCIe 4.0 x4 as substitution.

**Removable Storage**

**Optical**

None

**Card Reader**

No card reader

**Multi-Media**

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3287 codec

**Speakers**

Stereo speakers, Dolby® Audio™

**Microphone**

- Dual-microphone array, Dolby Voice
- No microphone

**Camera**

- FHD 1080p + IR, 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 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 86Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter

**Power Adapter**

**Power Adapter**

- 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
- 100W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 135W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

**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>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>85.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
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<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>89°/89°/89°/89°</td>
<td>ICC Template color calibration, Low power, Low blue light, TUV Eye Comfort, 85.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard, Low Blue Light, TUV Eye Comfort, 85.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&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>Dolby Vision™, X-Rite® Factory Color Calibration (ΔE&lt;2), Low blue light, TUV Eye Comfort, 85.4% screen to body ratio, DC dimming</td>
</tr>
</tbody>
</table>

**Color Calibration**

- X-Rite factory color calibration (WQXGA display)
- ICC Template color calibration (selected WUXGA display)
- No color calibration

**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, numeric keypad

**Keyboard Backlight**

- LED backlight
- Non-backlight

**UltraNav™**

3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67 x 115 mm (2.64 x 4.53 inches)

### Mechanical

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA graphics models</td>
<td>361.9 x 255.5 x 21.1 mm (14.25 x 10.06 x 0.83 inches)</td>
</tr>
</tbody>
</table>
Integrated graphics models | 361.98 x 255.5 x 20.5 mm (14.25 x 10.06 x 0.81 inches)

Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover</td>
<td>Starting at 1.8 kg (3.97 lbs)</td>
</tr>
<tr>
<td>Models with grey cover</td>
<td>Starting at 1.83 kg (4.04 lbs)</td>
</tr>
</tbody>
</table>

Case Color**
- Black
- Storm grey

Case Material**
- Models with black cover: PC 50% GF + PC 20% CF (top), PPS (bottom)
- Models with grey cover: aluminium (top), PPS (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] Starting weight is based on minimal configuration (integrated graphics, lowest capacity battery, no WWAN, etc).

CONNECTIVITY

Network

Ethernet**
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**
- Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)

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

SIM Card
- Gemalto eSIM card (physical)
- No physical SIM card inbox

NFC
- Near Field Communication
- No support

Notes:
[1] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations.

Ports[1]

Standard Ports
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Security keyhole
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 2.0)
- 2x USB 3.2 Gen 1 (one Always On)

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 or USB-C.

For more compatible docking solutions, please visit Docking for ThinkPad P16s Gen 1 (Intel)

Monitor Cable

Monitor Cable*

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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

- Smart card reader
- No smart card reader

Fingerprint Reader

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

BIOS Security

- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security

- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management

- Intel vPro Enterprise
- Non-vPro

Notes:

Intel vPro offers a superset of DASH's defined capabilities.
**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

**Notes:**
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

**ENVIRONMENTAL**

**Sustainability**

**Material**
- 97% PCC recycled plastic used in speaker enclosure
- 97% PCC recycled plastic used in the 52.5Wh battery
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

**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)

**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

**CERTIFICATIONS**

**Green Certifications**

**Green Certifications**
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- RoHS compliant
- TCO Certified 9.0

**Notes:**
The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.

EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

**Other Certifications**

**Mil-Spec Test**

MIL-STD-810H military test passed

**Other Certifications**

• (Optional) TÜV Rheinland® Eye Comfort Certification
• (Optional) TÜV Rheinland Low Blue Light

**ISV Certifications**

Please visit ISV certifications for Lenovo Workstations

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

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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Ethernet (RJ-45)  
2. USB4  
3. USB-C 3.2 Gen 2  
4. HDMI  
5. USB 3.2 Gen 1 (Always On)  
6. Headphone / microphone combo jack (3.5mm)  
7. Smart card reader *  
8. USB 3.2 Gen 1  
9. Security keyhole

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

Processor

Processor Family
AMD Ryzen™ 5 / 7 PRO 7040U Series Processor, supports up to 8 cores, up to 5.1GHz

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 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
- Fedora Linux
- Red Hat Enterprise Linux 9.1 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

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>AMD Radeon 740M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>AMD Radeon 780M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</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®, USB-C® 3.2 Gen 2 and USB4®)
- HDMI supports up to 3840x2160@60Hz
- USB-C 3.2 Gen 2 and USB4 support up to 3840x2160@60Hz (USB-C to DP)

Chipset

Chipset
AMD SoC (System on Chip) platform

Memory

Max Memory
- Models with 16GB LPDDR5x: 16GB soldered memory, not upgradable
- Models with 32GB LPDDR5x: 32GB soldered memory, not upgradable
- Models with 64GB LPDDR5x: 64GB soldered memory, not upgradable

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

Memory Type
LPDDR5x-7500 non-ECC

Notes:
[1] System comes with LPDDR5x-7500 DIMMs and will run at LPDDR5x-6400 due to platform limitations.

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</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, far-field, Dolby Voice

Camera
- 5.0MP + IR discrete, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- HD 720p, with privacy shutter, fixed focus

Battery

Battery
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 86Wh battery

Power Adapter

Power Adapter
- 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
- 100W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

Notes:

DESIGN

Display

Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch</th>
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<th>Brightness</th>
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<th>Aspect Ratio</th>
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<th>Color Gamut</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45%</td>
<td>85°/85°/85°/85°</td>
<td>85.4% screen to body ratio, DC dimming</td>
</tr>
</tbody>
</table>
### ThinkPad P16s Gen 2 (AMD)

<table>
<thead>
<tr>
<th>16”</th>
<th>WUXGA (1920x1200)</th>
<th>Multi-touch</th>
<th>IPS [2]</th>
<th>300nits</th>
<th>Anti-glare</th>
<th>16:10</th>
<th>800:1</th>
<th>45% NTSC</th>
<th>85°/85°/85°/85°</th>
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</tr>
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<tbody>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS [3]</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>ICC Template color calibration, Low power, Low Blue Light, Eyesafe® Certified 2.0, 85.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16”</td>
<td>WQUXGA (3840x2400)</td>
<td>None</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>10000:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>X-Rite® Factory Color Calibration, Low Blue Light, Eyesafe Certified 2.0, DisplayHDR™ 400, Dolby Vision™, 85.4% screen to body ratio</td>
</tr>
</tbody>
</table>

**Color Calibration**
- X-Rite factory color calibration (OLED display)
- ICC Template color calibration (low power display)
- No color calibration

**Touchscreen**
- On-cell multi-touch, supports 10-point touch (selected FHD display)
- 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, numeric keypad

**Keyboard Backlight**
- LED backlight
- Non-backlight

**UltraNav™**
3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67 x 115 mm (2.64 x 4.53 inches)

### Mechanical

**Dimensions (WxDxH)**
361.98 x 255.5 x 20.5 mm (14.25 x 10.06 x 0.81 inches)

**Weight**

<table>
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<tr>
<th>Models</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover</td>
<td>Starting at 1.70 kg (3.76 lbs)</td>
</tr>
<tr>
<td>Models with grey cover</td>
<td>Starting at 1.74 kg (3.85 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
- Storm grey
- Villi black

**Case Material**
- Models with black cover: PC 50% GF + PC 20% CF (top), PPS (bottom)
- Models with grey cover: aluminium (top), PPS (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**

Gigabit Ethernet, Realtek RTL8111EPV, 1x RJ-45, supports Wake-on-LAN and AMD Pro Manageability

**WLAN + Bluetooth®**

- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**

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

**SIM Card**

No physical SIM card inbox

**NFC**

- Near Field Communication
- No support

Notes:

[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

**Ports**

**Standard Ports**

- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Security keyhole
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB4 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
- 2x USB 3.2 Gen 1 (one Always On)

**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 Thunderbolt or USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad® P16s Gen 2 (AMD)](Docking for ThinkPad® P16s Gen 2 (AMD))
Monitor Cable

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

SECURITY & PRIVACY

Security

Security Chip
Discrete TPM 2.0 (TCG 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
- No smart card reader

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

BIOS Security
- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security
- (Optional) Ultrasonic Human Presence Detection for IR camera
- (Optional) Camera privacy shutter
- Bottom cover tamper detection
- (Optional) IR camera for Windows Hello

Notes:

[1] Microsoft Pluton TPM 2.0 is only applicable on Windows 11.

MANAGEABILITY

System Management

System Management
AMD PRO Manageability 2.0

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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.
ENVIRONMENTAL

Sustainability

Material
85% PCC recycled plastic used in key caps (backlight)
70% PCC recycled plastic used in key caps (non-backlight)
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery
90% PCC recycled plastic used in 65W adapter
90% recycled and/or sustainable packaging

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)

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

CERTIFICATIONS

Green Certifications[^1]

Green Certifications
- ENERGY STAR® 8.0
- EPEAT™ Gold Registered[^2]
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
- (Optional) Eyesafe Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light

ISV Certifications

ISV Certifications
Please visit ISV certifications for Lenovo Workstations
• 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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# OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>2</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>3</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>4</td>
<td>HDMI</td>
</tr>
<tr>
<td>5</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>6</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>7</td>
<td>Smart card reader *</td>
</tr>
<tr>
<td>8</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>9</td>
<td>Security keyhole</td>
</tr>
</tbody>
</table>

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

Processor

Processor Family
13th Generation P series Intel® Core™ i5 / i7 processor, supports up to 14 cores, up to 5.2GHz

<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 i5-1340P</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 i5-1350P</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 i7-1360P</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 i7-1370P</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>

Operating System

Operating System**

- Red Hat Enterprise Linux 9.1 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)[1]
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:


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[1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® RTX A500 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>30W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
</tbody>
</table>

Notes:

[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support
Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- Thunderbolt supports up to 7680x4320@60Hz

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory

Max Memory
Models with 16GB LPDDR5x: 16GB soldered memory, not upgradable
Models with 32GB LPDDR5x: 32GB soldered memory, not upgradable
Models with 64GB LPDDR5x: 64GB soldered memory, not upgradable
Models with DDR5 memory: up to 48GB (16GB soldered + 32GB SO-DIMM)

Memory Slots
- Models with DDR5 memory: one memory soldered to system board, one DDR5 SO-DIMM slot, dual-channel capable
- Models with LPDDR5x memory: memory soldered to system board, no slots, dual-channel

Memory Type
- DDR5-5600 non-ECC (models with integrated graphics)[1]
- LPDDR5x-7500 non-ECC (models with discrete graphics)[2]

Notes:
[1] System comes with DDR5-5600 memory and will run at DDR5-5200 due to platform limitations.
[2] System comes with LPDDR5x-7500 memory and will run at LPDDR5x-4800 due to platform limitations.

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, far-field, Dolby Voice

Camera
- 5.0MP + IR discrete, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- HD 720p, with privacy shutter, fixed focus

Battery
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 86Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter

Power Adapter
Power Adapter
- 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
• 100W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
• 135W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

Notes:

**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>16”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[1]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>85.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16”</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>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>85.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[3]</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>ICC Template color calibration, Low power, Low Blue Light, Eyesafe Certified 2.0, 85.4% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[4]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>16”</td>
<td>WQUXGA (3840x2400)</td>
<td>None</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>X-Rite® Factory Color Calibration, Low Blue Light, Eyesafe Certified 2.0, DisplayHDR™ 400, Dolby Vision™, 85.4% screen to body ratio</td>
</tr>
</tbody>
</table>

**Color Calibration**
- X-Rite factory color calibration (OLED display)
- ICC Template color calibration (low power display)
- No color calibration

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

Notes:
[1], [2], [3], [4] 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, numeric keypad

**Keyboard Backlight**
- LED backlight
- Non-backlight

**UltraNav™**
3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67 x 115 mm (2.64 x 4.53 inches)
**Mechanical**

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA graphics models</td>
<td>361.9 x 255.5 x 21.1 mm (14.25 x 10.06 x 0.83 inches)</td>
</tr>
<tr>
<td>Integrated graphics models</td>
<td>361.98 x 255.5 x 20.5 mm (14.25 x 10.06 x 0.81 inches)</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with black cover</td>
<td>Starting at 1.70 kg (3.76 lbs)</td>
</tr>
<tr>
<td>Models with grey cover</td>
<td>Starting at 1.73 kg (3.83 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**

- Storm grey
- Villi black

**Case Material**

- Models with black cover: PC 50% GF + PC 20% CF (top), PPS (bottom)
- Models with grey cover: aluminium (top), PPS (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**

- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth®**

- Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)

**WWAN**

- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom LB60-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- Quectel EM05-G, 4G LTE CAT4, M.2 card, with embedded eSIM functionality
- No support

**SIM Card**

No physical SIM card inbox

**NFC**

- Near Field Communication
- No support

Notes:

[1] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

**Ports**

**Standard Ports**

- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Security keyhole
• 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 2.0)
• 2x USB 3.2 Gen 1 (one Always On)

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 or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad P16s Gen 2 (Intel)

Monitor Cable
Monitor Cable
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort 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
• Smart card reader
• No smart card reader

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

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• (Optional) Ultrasonic Human Presence Detection for IR camera
• (Optional) Camera privacy shutter
• Bottom cover tamper detection
• (Optional) IR camera for Windows Hello

MANAGEABILITY

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

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

**SERVICE**

**Warranty[^1]**

**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

Notes:
[^1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

**ENVIRONMENTAL**

**Sustainability**

**Material**
- 85% PCC recycled plastic used in key caps (backlight)
- 70% PCC recycled plastic used in key caps (non-backlight)
- 98% PCC recycled plastic used in speaker enclosure
- 97% PCC recycled plastic used in the battery
- 90% PCC recycled plastic used in 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

**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)

**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
Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- RoHS compliant
- TCO Certified 9.0

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Other Certifications

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

Other Certifications
- (Optional) Eyesafe Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light

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**OVERVIEW**

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<thead>
<tr>
<th>Number</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nano-SIM card slot *</td>
</tr>
<tr>
<td>2</td>
<td>Headphone (3.5mm)</td>
</tr>
<tr>
<td>3</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>4</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>5</td>
<td>Kensington Nano Security Slot</td>
</tr>
<tr>
<td>6</td>
<td>HDMI</td>
</tr>
<tr>
<td>7</td>
<td>SD Express 7.0 card reader</td>
</tr>
<tr>
<td>8</td>
<td>Smart card reader *</td>
</tr>
<tr>
<td>9</td>
<td>USB4</td>
</tr>
<tr>
<td>10</td>
<td>USB4</td>
</tr>
<tr>
<td>11</td>
<td>Power-in (Slim Tip)</td>
</tr>
</tbody>
</table>

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

**Processor**

**Processor Family**
Up to AMD Ryzen™ PRO 7040HS Series Processor, supports up to 8 cores, up to 5.2GHz

<table>
<thead>
<tr>
<th>Processor Name</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Frequency</th>
<th>Cache</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Ryzen 5 PRO 7640HS</td>
<td>6</td>
<td>12</td>
<td>4.3GHz</td>
<td>5.0GHz</td>
<td>6MB L2 / 16MB L3</td>
</tr>
<tr>
<td>AMD Ryzen 7 7840HS</td>
<td>8</td>
<td>16</td>
<td>3.8GHz</td>
<td>5.1GHz</td>
<td>8MB L2 / 16MB L3</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 7840HS</td>
<td>8</td>
<td>16</td>
<td>3.8GHz</td>
<td>5.1GHz</td>
<td>8MB L2 / 16MB L3</td>
</tr>
<tr>
<td>AMD Ryzen 9 PRO 7940HS</td>
<td>8</td>
<td>16</td>
<td>4.0GHz</td>
<td>5.2GHz</td>
<td>8MB L2 / 16MB L3</td>
</tr>
</tbody>
</table>

**Operating System**

**Operating System**
- Red Hat Enterprise Linux 9.2 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware[1])
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

**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>AMD Radeon™ 760M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>AMD Radeon 780M</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA® RTX A500 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>NVIDIA RTX A1000 Laptop GPU</td>
<td>Discrete</td>
<td>6GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>NVIDIA RTX 2000 Ada Generation Laptop GPU</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
</tbody>
</table>

**Monitor Support**

**Monitor Support**
Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB4®)
- HDMI supports up to 7680x4320@60Hz
- USB4 supports up to 5120x3200@60Hz (USB-C® to DP)

**Chipset**

**Chipset**
AMD SoC (System on Chip) platform

**Memory**

**Max Memory**
Up to 64GB (2x 32GB DDR5 SO-DIMM)

**Memory Slots**
Two DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**
DDR5-5600 non-ECC

**Storage**

**Storage Support**
Up to two drives, 2x M.2 SSD
- M.2 2280 SSD up to 4TB, 2TB each

**Storage Slot**
Two M.2 2280 PCIe® 4.0 x4 slots

**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>

**RAID**
RAID 0/1 support

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

**Removable Storage**

Card Reader
SD Express 7.0 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**
- 5.0MP + IR hybrid, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- No camera

**Battery**

Battery
Integrated Li-Polymer 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Power Adapter**

**Power Adapter**
- 135W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

Notes:

**DESIGN**

**Display**

**Display**
**Color Calibration**
- X-Rite factory color calibration (WQUXGA display)
- No color calibration

**Touchscreen**
- On-cell multi-touch, supports 10-point touch (selected FHD display)
- 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, numeric keypad

**Keyboard Backlight**
LED backlight

**UltraNav™**
3-button TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 67.6 x 115 mm (2.66 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**
365 x 262 x 24.66 mm (14.37 x 10.31 x 0.97 inches)

**Weight**
Starting at 2.2 kg (4.85 lbs)

**Case Color**
Thunder black

**Case Material**
PC-ABS (top), PC-ABS (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.
Network
Ethernet
No onboard Ethernet
WLAN + Bluetooth®[1]
Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
WWAN**
• Wireless WAN upgradable to 4G (with antenna ready)
• 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:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

Ports[1]
Standard Ports
• 1x HDMI 2.1, up to 8K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x SD Express 7.0 card reader
• 1x Security keyhole
• 2x USB 3.2 Gen 1 (one Always On)
• 2x USB4 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)[2]
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.
[2] Power Delivery only supports power-out for charging peripherals.

Docking
Docking
Various docking solutions supported via Thunderbolt or USB-C.
For more compatible docking solutions, please visit
Docking for ThinkPad® P16v Gen 1 (AMD)

Monitor Cable
Monitor Cable
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort Adapter
• No monitor cable

SECURITY & PRIVACY
Security

Security Chip
Discrete TPM 2.0 (TCG 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
• No smart card reader

Fingerprint Reader
Touch style fingerprint reader integrated in power button, match-on-chip

BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS

Other Security
• (Optional) Ultrasonic Human Presence Detection for IR camera
• (Optional) Camera privacy shutter
• Bottom cover tamper detection
• (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management
System Management
• AMD PRO Manageability 2.0
• Non-DASH

SERVICE

Warranty[1]
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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
85% PCC recycled plastic used in key caps
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery
30% PCC recycled plastic used in 135W and 170W adapters
90% recycled and/or sustainable packaging

Operating Environment
Temperature
- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

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

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

CERTIFICATIONS

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
- (Optional) Eyesafe Certified
- (Optional) TÜV Rheinland® Low Blue Light

ISV Certifications

ISV Certifications
Please visit ISV certifications for Lenovo Workstations

- Feature with ** means that only one offering listed under the feature is configured on selected models.
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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Nano-SIM card slot *
2. Headphone (3.5mm)
3. USB 3.2 Gen 1 (Always On)
4. USB 3.2 Gen 1
5. Kensington Nano Security Slot
6. HDMI
7. SD Express 7.0 card reader
8. Smart card reader *
9. Thunderbolt 4
10. Thunderbolt 4
11. Power-in (Slim Tip)

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

Processor

Processor Family
13th Generation H series Intel® Core™ i5 / i7 / i9 processor, supports up to 14 cores, up to 5.4GHz

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>
</tr>
</thead>
<tbody>
<tr>
<td>Core i5-13500H</td>
<td>12 (4 P-core + 8 E-core)</td>
<td>16</td>
<td>P-core 2.6GHz / E-core 1.9GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>18MB</td>
</tr>
<tr>
<td>Core i7-13700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.4GHz / E-core 1.8GHz</td>
<td>P-core 5.0GHz / E-core 3.7GHz</td>
<td>24MB</td>
</tr>
<tr>
<td>Core i7-13800H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.5GHz / E-core 1.8GHz</td>
<td>P-core 5.2GHz / E-core 4.0GHz</td>
<td>24MB</td>
</tr>
<tr>
<td>Core i9-13900H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.6GHz / E-core 1.9GHz</td>
<td>P-core 5.4GHz / E-core 4.1GHz</td>
<td>24MB</td>
</tr>
</tbody>
</table>

Operating System

Operating System**
- Red Hat Enterprise Linux 9.2 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware](#))
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[2] 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>TGP</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Iris® Xe Graphics[1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® RTX A500 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>NVIDIA RTX A1000 Laptop GPU</td>
<td>Discrete</td>
<td>6GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
<tr>
<td>NVIDIA RTX 2000 Ada Generation Laptop GPU</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>35W</td>
<td>DirectX 12 Ultimate, Vulkan Support, NVIDIA FXAA / TXAA Anti-Aliasing, NVIDIA RTX Desktop Manager</td>
</tr>
</tbody>
</table>

Notes:
[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support
Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)
- HDMI supports up to 7680x4320@60Hz
- Thunderbolt supports up to 5120x3200@60Hz (Thunderbolt or USB-C® to DP)
**Chipset**

Intel SoC (System on Chip) platform

**Memory**

**Max Memory**
Up to 96GB (2x 48GB DDR5 SO-DIMM)

**Memory Slots**
Two DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**
DDR5-5600 non-ECC

Notes:
[1] System comes with DDR5-5600 memory and will run at DDR5-5200 due to platform limitations.

**Storage**

**Storage Support**
Up to two drives, 2x M.2 SSD
- M.2 2280 SSD up to 4TB, 2TB each

**Storage Slot**
Two M.2 2280 PCIe® 4.0 x4 slots

**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>

**RAID**

RAID 0/1 support

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

**Removable Storage**

**Card Reader**
SD Express 7.0 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, far-field, Dolby Voice
- No microphone

**Camera**
- 5.0MP + IR hybrid, with privacy shutter and Ultrasonic Human Presence Detection, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

**Battery**

**Battery**
Integrated Li-Polymer 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Power Adapter**

**Power Adapter**
**AC adapter offerings depend on the country.**

### 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>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>83.9% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&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>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
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<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light, 83.9% screen to body ratio, DC dimming</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQUXGA (3840x2400)</td>
<td>None</td>
<td>IPS</td>
<td>800nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>DisplayHDR™ 400, Dolby Vision™, Eyesafe® Certified 2.0, TÜV Low Blue Light, X-Rite® Factory Color Calibration, 83.9% screen to body ratio, DC dimming</td>
</tr>
</tbody>
</table>

**Color Calibration**
- X-Rite factory color calibration (WQUXGA display)
- No color calibration

**Touchscreen**
- On-cell multi-touch, supports 10-point touch (selected FHD display)
- Non-touch

---

**Notes:**
- 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, numeric keypad

**Keyboard Backlight**
- LED backlight on optional keyboard

**UltraNav™**
- 3-button TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 67.6 x 115 mm (2.66 x 4.53 inches)

### Mechanical

**Dimensions (WxDxH)**
- 365 x 262 x 24.66 mm (14.37 x 10.31 x 0.97 inches)

**Weight**
- Starting at 2.2 kg (4.85 lbs)
**Case Color**
Thunder black

**Case Material**
PC-ABS (top), PC-ABS (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®**
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- 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:**

[1] Ethernet support via optional docking or Lenovo USB-C to Ethernet Adapter.
[2] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

---

**Ports**

**Standard Ports**
- 1x HDMI 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD Express 7.0 card reader
- 1x Security keyhole
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 2x USB 3.2 Gen 1 (one Always On)

**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.

[2] Power Delivery only supports power-out for charging peripherals.
Docking
Various docking solutions supported via Thunderbolt or USB-C.
For more compatible docking solutions, please visit
Docking for ThinkPad® P16v Gen 1 (Intel)

Monitor Cable
Lenovo HDMI to VGA Monitor Adapter
Lenovo USB-C to VGA Adapter
Lenovo USB-C to DisplayPort Adapter
No monitor cable

SECURITY & PRIVACY

Security
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
No smart card reader

Fingerprint Reader
Touch style fingerprint reader integrated in power button, match-on-chip

BIOS Security
Power-on password
Supervisor password
NVMe password
Self-healing BIOS

Other Security
(Optional) Ultrasonic Human Presence Detection for IR camera
(Optional) Camera privacy shutter
Bottom cover tamper detection
(Optional) IR camera for Windows Hello

MANAGEABILITY

System Management
Intel vPro® Enterprise[1]
Non-vPro

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

SERVICE

Warranty[1]

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
Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
85% PCC recycled plastic used in key caps
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery
30% PCC recycled plastic used in 135W and 170W adapters
90% recycled and/or sustainable packaging

Operating Environment

Temperature
- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

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

CERTIFICATIONS

Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
- (Optional) Eyesafe Certified 2.0
• (Optional) TÜV Rheinland® Low Blue Light

**ISV Certifications**

Please visit ISV certifications for Lenovo Workstations

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

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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
### OVERVIEW

<table>
<thead>
<tr>
<th>1. Smart card reader *</th>
<th>6. USB-C 3.2 Gen 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. USB 3.2 Gen 1</td>
<td>7. HDMI</td>
</tr>
<tr>
<td>3. Kensington Nano Security Slot</td>
<td>8. USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>4. Ethernet (RJ-45)</td>
<td>9. Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>5. USB-C 3.2 Gen 2</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Items with * are only available on selected models
- Optional nano-SIM card slot on the rear side (not shown on the sample product above)
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 Graphics</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 Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System

Linux
Ubuntu Linux
Windows® 11 DG Windows 10 Pro 64
Windows 11 Home
Windows 11 Home Single Language
Windows 11 Pro
No operating system

Notes:
[1], [2] 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 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**

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 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, far-field, Dolby Voice
- No microphone[1]

**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

Notes:

[1] No microphone is for special bid only.

**Battery**

**Battery**

- Integrated Li-Polymer 39.3Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 52.5Wh 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 14.6 hr with 595 performance score @200nits
MobileMark 25: up to 13.5 hr with 513 performance score @250nits
JEITA 2.0: up to 21.1 hr @150nits
Local video playback: up to 18.1 hr @150nits

Alternate configuration 2

MobileMark 2018: up to 13.3 hr with 694 performance score @200nits
MobileMark 25: up to 12.6 hr with 548 performance score @250nits
JEITA 2.0: up to 16.5 hr @150nits
Local video playback: up to 14.8 hr @150nits

Alternate configuration 3

MobileMark 2018: up to 10.1 hr with 662 performance score @200nits
MobileMark 25: up to 6.0 hr with 541 performance score @250nits
JEITA 2.0: up to 13.2 hr @150nits
Local video playback: up to 10.4 hr @150nits
Notes:

[1] Configuration 1 (max battery life): WUXGA Low Power (non-touch), AMD Ryzen 7 PRO 6850U, 16GB LPDDR5, Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA 300nits (touch), AMD Ryzen 5 PRO 6650U, 16GB LPDDR5, Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 3: WQUXGA (touch), AMD Ryzen 5 PRO 6650U, 32GB LPDDR5, Win 11, 52.5Wh 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

Display*[1]

<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</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>700:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>On-cell touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>700:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>On-cell touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>14”</td>
<td>2.2K (2240x1400)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light</td>
</tr>
<tr>
<td>14”</td>
<td>WQUXGA (3840x2400)</td>
<td>Add-on Film Touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare, anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>DisplayHDR™ 400, Dolby Vision™, Eyesafe Certified</td>
</tr>
</tbody>
</table>

Touchscreen**

- Add-on Film Touch, supports 10-point touch
- 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 black cover</td>
<td>317.7 x 226.9 x 17.9 mm (12.51 x 8.93 x 0.70 inches)</td>
</tr>
<tr>
<td>Models with storm grey cover</td>
<td>317.7 x 227.36 x 17.9 mm (12.51 x 8.95 x 0.70 inches)</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with thunder black cover and 39.3Wh battery</td>
<td>Starting at 1.406 kg (3.10 lbs)</td>
</tr>
<tr>
<td>Models with thunder black cover and 52.5Wh battery</td>
<td>Starting at 1.498 kg (3.30 lbs)</td>
</tr>
<tr>
<td>Models with storm grey cover and 39.3Wh battery</td>
<td>Starting at 1.501 kg (3.31 lbs)</td>
</tr>
<tr>
<td>Models with storm grey cover and 52.5Wh battery</td>
<td>Starting at 1.540 kg (3.39 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**

- Storm grey
- Thunder black

**Surface Treatment**

Not anti-microbial surface treatment

**Case Material**

- Storm grey models: aluminium (top), PPS (bottom)
- Thunder black models: PC + 20% CF + 50% GF (top), PPS (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**

- Gigabit Ethernet, Realtek RTL8111EPV (DASH models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Realtek RTL8111HN (non-DASH models), 1x RJ-45, supports Wake-on-LAN

**WWAN**

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

**SIM Card**
- Gemalto eSIM card (physical)
- No physical SIM card inbox

**NFC**
- Near Field Communication
- No support

---

**Notes:**

[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

[2], [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 Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)

**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 T14 Gen 3 (AMD)](https://www.lenovo.com)

**Monitor Cable**

**Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

---

**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**
ThinkPad T14 Gen 3 (AMD)

- Smart card reader
- No smart card reader

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

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) Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- Glance by Mirametrix®

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

Notes:
1. The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model's configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).
2. No base warranty is for special bid only.

ENVIRONMENTAL

Sustainability

Material
- 97% PCC recycled plastic used in speaker enclosure
- 97% PCC recycled plastic used in the 52.5Wh battery
- 25-30% PCC recycled plastic used in the 39.3Wh battery
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

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)

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
- Lenovo USB-C to Ethernet Adapter
- None

CERTIFICATIONS

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- ErP Lot 3
- RoHS compliant
- TCO Certified 9.0

Other Certifications
- (Optional) Eyesafe Certified
- (Optional) TÜV Rheinland® Low Blue Light

Notes:
[1] The items listed under the “Green Certifications” section may not only refer to certification but also registration or self-declaration.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

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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The specifications on this page may not be available in all regions, and may be changed or updated without notice.
# OVERVIEW

## Features

| 1. | Smart card reader * |
| 2. | USB 3.2 Gen 1 |
| 3. | Kensington Nano Security Slot |
| 4. | Ethernet (RJ-45) |
| 5. | Thunderbolt 4 |
| 6. | Thunderbolt 4 |
| 7. | HDMI |
| 8. | USB 3.2 Gen 1 (Always On) |
| 9. | Headphone / microphone combo jack (3.5mm) |
| 10. | Nano-SIM card slot * |

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

**Processor Family**

12th Generation Intel® Core™ i5 / i7 Processor

**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 i5-1235U</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 i7-1255U</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 i7-1260P</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] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

### Operating System

**Operating System**

- Linux
- Ubuntu Linux
- Windows® 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1], [2] 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 Iris Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® GeForce MX550</td>
<td>Discrete</td>
<td>2GB GDDR6</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:

[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.
channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

**Monitor Support**

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**

Chipset

Intel SoC (System on Chip) platform

**Memory**

Max Memory

- Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200
- Up to 48GB (16GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots

One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type

DDR4-3200

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.

**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 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4[2]</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] 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[2]

Camera[2]

---

[1] Refresh rates >60hz also supported, however max resolution will be limited.
[2] PCIe x4 may be PCIe 3.0x4 or PCIe 4.0x4 as substitution.
ThinkPad T14 Gen 3 (Intel)

- 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

Notes:
[1] No microphone is for special bid only.
[2] Only HD 720p camera and FHD 1080p + IR hybrid camera are available in EMEA.

Battery

Battery**
- Integrated Li-Polymer 39.3Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 52.5Wh 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 10.0 hr with 791 performance score @200nits
MobileMark 25: up to 8.2 hr with 601 performance score @250nits
JEITA 2.0: up to 19.9 hr @150nits
Local video playback: up to 15.1 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 9.4 hr with 930 performance score @200nits
MobileMark 25: up to 6.5 hr with 653 performance score @250nits
JEITA 2.0: up to 12.0 hr @150nits
Local video playback: up to 10.1 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 7.4 hr with 1055 performance score @200nits
MobileMark 25: up to 4.8 hr with 712 performance score @250nits
JEITA 2.0: up to 11.0 hr @150nits
Local video playback: up to 9.1 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), Intel i5-1240P, 8GB soldered, Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), Intel i5-1250P, 16GB (8GB soldered + 8GB SO-DIMM), Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 3: WQUXGA (touch), Intel i7-1280P, 32GB (16GB soldered + 16GB SO-DIMM), NVIDIA GeForce MX550, Win 11, 52.5Wh 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][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[1]

Notes:
[2] 45W USB-C AC adapter is ONLY available for the models with integrated graphics.
45W USB-C AC adapter and 65W USB-C slim AC adapter are NOT available in EMEA.
[3] 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>
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<tbody>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>700:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td></td>
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<td>WUXGA (1920x1200)</td>
<td>On-cell touch</td>
<td>IPS</td>
<td>300nits</td>
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<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>On-cell touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>14”</td>
<td>2.2K (2240x1400) [2]</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Eyesafe Certified</td>
</tr>
<tr>
<td>14”</td>
<td>WQUXGA (3840x2400)</td>
<td>Add-on Film Touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>DisplayHDR™ 400, Dolby Vision™, Eyesafe Certified</td>
</tr>
</tbody>
</table>

Touchscreen**
- Add-on Film Touch, supports 10-point touch
- 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] 2.2K 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[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 thunder black cover.

Mechanical

Dimensions (WxDxH)[3]
317.7 x 226.9 x 17.9 mm (12.51 x 8.93 x 0.70 inches)

Weight[2]

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with thunder black cover, integrated graphics and 39.3Wh battery</td>
<td>Starting at 1.358 kg (2.99 lbs)</td>
</tr>
<tr>
<td>Models with thunder black cover, discrete graphics and 39.3Wh battery</td>
<td>Starting at 1.418 kg (3.13 lbs)</td>
</tr>
</tbody>
</table>
## Case Color
- Storm grey\(^3\)
- Thunder black

## Surface Treatment
Not anti-microbial surface treatment

## Case Material
- Models with thunder black cover and integrated graphics: PC + 20% CF + 50% GF (top), PPS (bottom)
- Models with thunder black cover and discrete graphics: PC + 20% CF + 50% GF (top), aluminium (bottom)
- Models with storm grey cover: aluminium (top), PPS (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 cover is ONLY available for the models with integrated graphics. Storm grey cover is NOT available in EMEA.

### CONNECTIVITY

#### Network

**Ethernet\(^*\)**
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth\(^\text{®}\text{®}\)**\(^{[1]}\)
- Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1\(^{[2]}\)
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1\(^{[3]}\)

**WWAN\(^*\)**
- Wireless WAN upgradable to 4G (with antenna ready)\(^{[4]}\)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card\(^{[5]}\)
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- No support

#### SIM Card
- Gemalto eSIM card (physical)
- No physical SIM card inbox

#### NFC\(^{[6]}\)
- Near Field Communication
- No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[2], [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.
[4] Wireless WAN upgradable to 4G is ONLY available in EMEA.
[5] Fibocom L860-GL CAT16 is special bid only in EMEA.
[6] NFC is NOT available for storm grey models. NFC is special bid only in EMEA.
Standard Ports
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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™ 1.4)

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 Thunderbolt / USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad T14 Gen 3 (Intel)

Monitor Cable
Monitor Cable
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

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

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

Other Security
- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
• Glance by Mirametrix®
• Human Presence Detection (software)
• (Optional) RFID reader

Notes:
[1] Smart card reader is mutually exclusive with RFID reader.
[2] Fingerprint reader is standard on storm grey models and optional on thunder black models.
[3] RFID reader is NOT available on storm grey models and is mutually exclusive with smart card reader.

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[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
97% PCC recycled plastic used in speaker enclosure
97% PCC recycled plastic used in the 52.5Wh battery
25-30% PCC recycled plastic used in the 39.3Wh battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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

• Lenovo USB-C to Ethernet Adapter
• None

CERTIFICATIONS

Green Certifications

• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• 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.

[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

(Optional) Eyesafe Certified

• 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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Smart card reader *
2. USB 3.2 Gen 1
3. Kensington Nano Security Slot
4. Ethernet (RJ-45)
5. USB4 40Gbps
6. USB-C 3.2 Gen 2
7. HDMI
8. USB 3.2 Gen 1 (Always On)
9. Headphone / microphone combo jack (3.5mm)
10. Nano-SIM card slot *

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

Processor

Processor Family
AMD Ryzen™ 5 / 7 Processor

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 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**

- Linux[^1]
- Ubuntu Linux[^2]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[^1],[^2] 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

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® or USB4®)
- 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)
- USB4 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 (8GB)
- LPDDR5x-6400 (16GB or 32GB)[^1]

Notes:

[^1] Installed memory is actually 7500MHz, but run at 6400MHz 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[1]

Camera
- 5.0MP + IR discrete, with privacy shutter, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus
- No camera[2]

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

Battery

Battery
- Integrated Li-Polymer 39.3Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 52.5Wh 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 14.3 hr with 692 performance score @250nits
JEITA 2.0: up to 22.0 hr @150nits
Local video playback: up to 17.6 hr @150nits

Alternate configuration 2
MobileMark 25: up to 10.3 hr with 647 performance score @250nits
JEITA 2.0: up to 16.1 hr @150nits
Local video playback: up to 14.1 hr @150nits

Alternate configuration 3
MobileMark 25: up to 5.0 hr with 645 performance score @250nits
JEITA 2.0: up to 7.4 hr @150nits
Local video playback: up to 7.6 hr @150nits
Notes:
[1] Configuration 1 (max battery life): WUXGA Low Power (non-touch), AMD Ryzen 7 PRO 7840U, 16GB LPDDR5x, Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA 300nits (touch), AMD Ryzen 5 PRO 7540U, 16GB LPDDR5x, Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 3: 2.8K OLED (non-touch), AMD Ryzen 5 PRO 7540U, 32GB LPDDR5x, Win 11, 39.3Wh 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**

- 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.

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<td>Multi-touch</td>
<td>IPS[2]</td>
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<td>Anti-glare</td>
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<td>16:10</td>
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<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified 2.0</td>
</tr>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[4]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
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<td>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Eyesafe Certified 2.0</td>
</tr>
<tr>
<td>14&quot;</td>
<td>2.8K (2880x1800)</td>
<td>None</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-glare, anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>DisplayHDR™ True Black 500, Dolby Vision™, Eyesafe Certified 2.0</td>
</tr>
</tbody>
</table>

**Touchscreen**

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

Notes:
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)**
317.7 x 226.9 x 17.9 mm (12.51 x 8.93 x 0.70 inches)

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with thunder black cover and 39.3Wh battery</td>
<td>Starting at 1.35 kg (2.96 lbs)</td>
</tr>
<tr>
<td>Models with storm grey cover and 39.3Wh battery</td>
<td>Starting at 1.38 kg (3.05 lbs)</td>
</tr>
<tr>
<td>Models with thunder black cover and 52.5Wh battery</td>
<td>Starting at 1.39 kg (3.05 lbs)</td>
</tr>
<tr>
<td>Models with storm grey cover and 52.5Wh battery</td>
<td>Starting at 1.42 kg (3.13 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 (top), PPS (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**
Gigabit Ethernet, Realtek RTL8111EPV, 1x RJ-45, supports Wake-on-LAN

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

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom LB60-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- Quectel EM05-G, 4G LTE CAT4, M.2 card, with embedded eSIM functionality
- No support

**SIM Card**
No physical SIM card inbox

**NFC**
- Near Field Communication
- No support

Notes:
Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

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 Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

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 T14 Gen 4 (AMD)

Monitor Cable

Monitor Cable
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

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
- No smart card reader

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

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

Other Security
• (Optional) Camera privacy shutter
• (Optional) IR camera for Windows Hello
• (Optional) Privacy Guard with Privacy Alert
• Glance by Mirametrix®
• Ultrasonic Human Presence Detection (IR camera models)

Notes:
[1] Fingerprint reader is standard on storm grey models and optional on thunder black models.

MANAGEABILITY

System Management

SERVICE

Warranty[1]

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[2]

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.
[2] No base warranty is for special bid only.

ENVIRONMENTAL

Sustainability

Material
50% recycled aluminium on storm grey top cover
55% recycled aluminium on storm grey bottom cover
90% recycled magnesium on keyboard cover
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the 39.3Wh and 52.5Wh battery enclosure
90% PCC recycled plastic used in standard 45W and 65W adapters
Low-temperature solder
Standard packaging: 90% plastic free packaging
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)

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
• None

CERTIFICATIONS

Green Certifications

Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
(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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Smart card reader *
2. USB 3.2 Gen 1
3. Kensington Nano Security Slot
4. Ethernet (RJ-45)
5. Thunderbolt 4
6. Thunderbolt 4
7. HDMI
8. USB 3.2 Gen 1 (Always On)
9. Headphone / microphone combo jack (3.5mm)
10. Nano-SIM card 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

**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 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 Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics. Intel P series processors are for special bid only.

Operating System

**Operating System**

- Linux
- Ubuntu Linux
- Windows 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1], [2] 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 Iris Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® GeForce MX550</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:

[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.
Monitor Support
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
Chipset
Intel SoC (System on Chip) platform

Memory
Max Memory
Models with 16GB LPDDR5x: 16GB soldered memory, not upgradable
Models with 32GB LPDDR5x: 32GB soldered memory, not upgradable
Models with DDR4 memory: up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200
Models with DDR5 memory: up to 32GB (16GB soldered + 16GB SO-DIMM) DDR5-5200

Memory Slots
Models with DDR4 memory: one memory soldered to system board, one DDR4 SO-DIMM slot, dual-channel capable
Models with DDR5 memory: one memory soldered to system board, one DDR5 SO-DIMM slot, dual-channel capable
Models with LPDDR5x memory: memory soldered to system board, no slots, dual-channel

Memory Type
• DDR4-3200 (models with integrated graphics)
• DDR5-5200 (models with integrated graphics)
• LPDDR5x-4800 (models with discrete graphics)

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.
[2] Installed DDR5 memory is actually 5600MHz but run at 5200MHz due to platform limitation.
[3] Installed LPDDR5x memory is actually 7500MHz but run at 4800MHz 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 + IR hybrid, 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 39.3Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 52.5Wh 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 9.5 hr @250nits
JEITA 2.0: up to 21.7 hr @150nits
Local video playback: up to 17.5 hr @150nits

Alternate configuration 2
MobileMark 25: up to 9.2 hr @250nits
JEITA 2.0: up to 20.3 hr @150nits
Local video playback: up to 17.0 hr @150nits

Alternate configuration 3
MobileMark 25: up to 7.2 hr @250nits
JEITA 2.0: up to 12.9 hr @150nits
Local video playback: up to 11.7 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA low power (non-touch), Intel i5-1335U, 16GB soldered DDR5, Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA low power (non-touch), Intel i5-1340P, 16GB soldered DDR5, Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (touch), Intel i5-1350P, 16GB soldered DDR5, Win 11, 52.5Wh 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>14&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>700:1</td>
<td>45% NTSC</td>
<td>Low power, Eyesafe® Certified 2.0</td>
</tr>
<tr>
<td>14&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>700:1</td>
<td>45% NTSC</td>
<td></td>
</tr>
<tr>
<td>14&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>800:1</td>
<td>100% sRGB</td>
<td>Eyesafe Certified 2.0</td>
</tr>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[4]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>14&quot;</td>
<td>2.2K (2240x1400)</td>
<td>None</td>
<td>IPS[5]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td></td>
</tr>
<tr>
<td>14&quot;</td>
<td>2.8K (2880x1800)</td>
<td>None</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-glare, anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>DisplayHDR™ True Black 500, Dolby Vision™, Eyesafe Certified 2.0</td>
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**Touchscreen**

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

**Input Device**

**Keyboard**

6-row, spill-resistant, multimedia Fn keys with Unified Communications controls

**Keyboard Backlight**

- LED backlight
- Non-backlight

**TrackPoint®** pointing device and glass-like Mylar® surface multi-touch touchpad, 61 x 115 mm (2.40 x 4.53 inches)

**Mechanical**

Dimensions (WxDxH)[5]

317.7 x 226.9 x 17.9 mm (12.51 x 8.93 x 0.70 inches)

**Weight**[2]

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</thead>
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</tr>
<tr>
<td>Models with storm grey cover and 39.3Wh battery</td>
<td>Starting at 1.36 kg (3.0 lbs)</td>
</tr>
<tr>
<td>Models with thunder black cover, integrated graphics and 52.5Wh battery</td>
<td>Starting at 1.37 kg (3.01 lbs)</td>
</tr>
<tr>
<td>Models with thunder black cover, discrete graphics and 39.3Wh battery</td>
<td>Starting at 1.38 kg (3.05 lbs)</td>
</tr>
<tr>
<td>Models with storm grey cover and 52.5Wh battery</td>
<td>Starting at 1.40 kg (3.09 lbs)</td>
</tr>
<tr>
<td>Models with thunder black cover, discrete graphics and 52.5Wh battery</td>
<td>Starting at 1.42 kg (3.14 lbs)</td>
</tr>
</tbody>
</table>
Case Color**
• Storm grey
• Thunder black

Case Material**
• Storm grey models: aluminium (top), PPS (bottom)
• Thunder black models: carbon fiber hybrid (top), PPS (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**
• Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
• Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**
• Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
• Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

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

SIM Card
No physical SIM card inbox

NFC
• Near Field Communication
• No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[2], [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 Ethernet (RJ-45)
• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 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™ 1.4)

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 Thunderbolt / USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad T14 Gen 4 (Intel)](https://www.lenovo.com/).

**Monitor Cable**

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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**
- Smart card reader
- No smart card reader

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

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

**Other Security**
- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- Glance by Mirametrix®
- Ultrasonic Human Presence Detection (IR camera models)
- (Optional) RFID reader

---

**Notes:**

[1] Smart card reader is mutually exclusive with RFID reader.
[2] Fingerprint reader is standard on storm grey models and optional on thunder black models.
[3] RFID reader is mutually exclusive with smart card reader.

**MANAGEABILITY**

**System Management**
• Intel vPro Enterprise
• Intel vPro Essentials
• 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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
55% recycled aluminium on storm grey top cover
90% recycled magnesium on keyboard cover
98% PCC recycled plastic used in speaker enclosure
Up to 30% PCC recycled plastic used in the 39.3Wh and 97% in 52.5Wh battery enclosure
90% PCC recycled plastic used in standard 45W and 65W adapters
Low-temperature solder
Standard packaging: 90% plastic free packaging
Bulk packaging: 90% recycled and FSC certified content

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)

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
- None
CERTIFICATIONS

Green Certifications

(Optional) ENERGY STAR® 8.0
(Optional) 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 is registered where applicable, please see https://www.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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
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)

Notes:
- Items with * are only available on selected models
- Optional nano-SIM card slot on the rear side (not shown on the sample product above)
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 Graphics</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 Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System

- Linux
- Ubuntu Linux
- Windows® 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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 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
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 57Wh 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 19.52 hr with 707 performance score @200nits
MobileMark 25: up to 18.18 hr with 564 performance score @250nits
JEITA 2.0: up to 22.98 hr @150nits
Local video playback: up to 22.1 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 14.68 hr with 698 performance score @200nits
MobileMark 25: up to 13.47 hr with 553 performance score @250nits
JEITA 2.0: up to 20.22 hr @150nits
Local video playback: up to 18.1 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 10.68 hr with 806 performance score @200nits
MobileMark 25: up to 9.78 hr with 539 performance score @250nits
JEITA 2.0: up to 12.75 hr @150nits
Local video playback: up to 10.5 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA Low Power (non-touch), AMD Ryzen 7 PRO 6850U, 16GB LPDDR5, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA 300nits (touch), AMD Ryzen 5 PRO 6650U, 16GB LPDDR5, Win 11, 57Wh battery, best
power efficiency power mode
Alternate configuration 3: 2.8K OLED, AMD Ryzen 5 PRO 6650U, 32GB LPDDR5, Win 11, 57Wh 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**

*AC adapter offerings depend on the country.*

*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>Multi-touch</td>
<td>IPS[1]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>600:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[2]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>600:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[3]</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified</td>
</tr>
<tr>
<td>14”</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[4]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>14”</td>
<td>2.2K (2240x1400)</td>
<td>None</td>
<td>IPS[5]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light Method 2</td>
</tr>
<tr>
<td>14”</td>
<td>2.8K (2880x1800)</td>
<td>None</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-glare, anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000000:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>DisplayHDR™ True Black 500, Dolby Vision™, Eyesafe® Certified</td>
</tr>
</tbody>
</table>

**Touchscreen**

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

Notes:

[1], [2], [3], [4], [5] 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)**
317.5 x 226.9 x 16.9 mm (12.5 x 8.93 x 0.67 inches)

**Weight**
Starting at 1.23 kg (2.71 lbs)

**Case Color**
- Storm grey
- Thunder black

**Case Material**
- Storm grey models: aluminium (top), aluminium (bottom)
- Thunder black models: carbon fiber hybrid (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 5.1
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
- Quectel EM05-G, 4G LTE CAT4, 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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 HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

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 USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad T14s Gen 3 (AMD)

Monitor Cable

Monitor Cable

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

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
- No smart card reader

Fingerprint Reader

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

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) Camera privacy shutter
- (Optional) IR camera for Windows Hello
MANAGEABILITY

System Management

SERVICE

Warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
97% PCC recycled plastic used in speaker enclosure
97% recycled plastic used in the 57Wh battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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

Lenovo USB-C to Ethernet Adapter
None
CERTIFICATIONS

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) 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.

[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications

- (Optional) Eyesafe Certified
- (Optional) TÜV Rheinland® Low Blue Light Method 2

- 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Smart card reader *
2. USB 3.2 Gen 1
3. Kensington Nano Security Slot
4. Thunderbolt 4
5. Thunderbolt 4
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
12th Generation Intel® Core™ i5 / i7 Processor

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 i5-1235U</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 i7-1255U</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 i7-1260P</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] For special bid only in EMEA.

Operating System

Operating System**

- Linux
- Ubuntu Linux
- Windows® 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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>Intel Iris Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12.1</td>
</tr>
</tbody>
</table>

Monitor Support

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**

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 system board, no slots, dual-channel

Memory Type
LPDDR5-4800

Notes:
[1] Installed memory is actually 6400MHz but run at 4800MHz 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 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4</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

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® 2018: up to 13.6 hr with 978 performance score @200nits
MobileMark 25: up to 10.8 hr with 669 performance score @250nits
JEITA 2.0: up to 24.0 hr @150nits
Local video playback: up to 18.1 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 10.0 hr with 1066 performance score @200nits
MobileMark 25: up to 7.2 hr with 712 performance score @250nits
JEITA 2.0: up to 15.3 hr @150nits
Local video playback: up to 14.8 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 8.2 hr with 936 performance score @200nits
MobileMark 25: up to 6.3 hr with 750 performance score @250nits
JEITA 2.0: up to 12.3 hr @150nits
Local video playback: up to 11.8 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), Intel i5-1235U, 8GB LPDDR5, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), Intel i5-1250P, 16GB LPDDR5, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: 2.8K OLED, Intel i5-1245U, 8GB LPDDR5, Win 11, 57Wh 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*[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>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>14&quot;</td>
<td>WUXGA</td>
<td>Multi</td>
<td>IPS[1]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>600:1</td>
<td>45%</td>
<td>85°/85°/85°/85°</td>
<td></td>
</tr>
</tbody>
</table>

ThinkPad T14s Gen 3 (Intel) - July 19 2023

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

Notes:
[1], [2], [3], [4], [5] 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[^9]

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)[^9]
317.5 x 226.9 x 16.9 mm (12.5 x 8.93 x 0.67 inches)

Weight[^2]

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thunder black models</td>
<td>Starting at 1.21 kg (2.67 lbs)</td>
</tr>
<tr>
<td>Storm grey models</td>
<td>Starting at 1.45 kg (3.19 lbs)</td>
</tr>
</tbody>
</table>

Case Color**
- Storm grey[^3]
- Thunder black

Case Material**
- Storm grey models: aluminium (top), aluminium (bottom)
- Thunder black models: carbon fiber hybrid (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[1]

WLAN + Bluetooth®[2]
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
- Quectel EM05-G, 4G LTE CAT4, 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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[1]

Standard Ports
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

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 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 T14s Gen 3 (Intel)

Monitor Cable

Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
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
• No smart card reader

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

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

Other Security
• (Optional) Camera privacy shutter
• (Optional) IR camera for Windows Hello
• (Optional) Privacy Guard with Privacy Alert
• Glance by Mirametrix®
• (Optional) Human Presence Detection
• Tile ready

MANAGEABILITY

System Management

System Management
• Intel vPro® Enterprise
• Non-vPro

Notes:
[1] 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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of
warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
97% PCC recycled plastic used in speaker enclosure
97% recycled plastic used in the 57Wh battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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
- None

CERTIFICATIONS

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) 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.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications

- (Optional) Eyesafe Certified
- (Optional) Intel Evo™ Platform
- (Optional) TÜV Rheinland® Low Blue Light Method 2
• 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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

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

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

Processor

Processor Family
AMD Ryzen™ 5 / 7 Processor

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 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**

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

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

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:
[1] 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
LPDDR5x-6400[4]
Installed memory is actually 7500MHz but run at 6400MHz 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>
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<tr>
<th>Disk Type</th>
<th>Interface</th>
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<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
- No camera

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

Battery

Battery
Integrated Li-Polymer 57Wh 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 15.67 hr with 707 performance score @250nits
JEITA 2.0: up to 23.1 hr @150nits
Local video playback: up to 18.7 hr @150nits

Alternate configuration 2
MobileMark 25: up to 12.3 hr with 667 performance score @250nits
JEITA 2.0: up to 18.8 hr @150nits
Local video playback: up to 16.13 hr @150nits

Alternate configuration 3
MobileMark 25: up to 7.66 hr with 664 performance score @250nits
JEITA 2.0: up to 10.96 hr @150nits
Local video playback: up to 11.27 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA 300nits (non-touch), AMD Ryzen 7 PRO 7840U, 16GB LPDDR5x, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA 300nits (touch), AMD Ryzen 5 PRO 7540U, 16GB LPDDR5x, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: 2.8K OLED (non-touch), AMD Ryzen 5 PRO 7540U, 32GB LPDDR5x, Win 11, 57Wh 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
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- 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**

**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>14&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>600:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>14&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>600:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>14&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>800:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified 2.0</td>
</tr>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[4]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89°/89°/89°/89°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>14&quot;</td>
<td>2.2K (2240x1400)</td>
<td>None</td>
<td>IPS[5]</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°</td>
<td>TÜV Low Blue Light Method 2</td>
</tr>
<tr>
<td>14&quot;</td>
<td>2.8K (2880x1800)</td>
<td>None</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-glare, anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000000:1</td>
<td>100% DCI-P3</td>
<td>90Hz</td>
<td>85°/85°/85°/85°</td>
<td>DisplayHDR™ True Black 500, Dolby Vision™, Eyesafe Certified 2.0</td>
</tr>
</tbody>
</table>

**Touchscreen**

- On-cell multi-touch, supports 10-point touch
- Non-touch
Notes:
[1], [2], [3], [4], [5] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

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

**Keyboard Backlight**
LED backlight

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

**Mechanical**

**Dimensions (WxDxH)**[3]
317.5 x 226.9 x 16.9 mm (12.5 x 8.93 x 0.67 inches)

**Weight**[2]

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<td>Deep black models</td>
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<tr>
<td>Storm grey models</td>
<td>Starting at 1.49 kg (3.28 lbs)</td>
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</tbody>
</table>

**Case Color**[**]
- Deep black
- Storm grey

**Case Material**[**]
- Deep black models: carbon fiber hybrid (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[6]

**WLAN + Bluetooth®**[**][2]
- MediaTek Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[4]

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)[5]
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- Quectel EM05-G, 4G LTE CAT4, 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.
Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

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.

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

**Ports**

**Standard Ports**
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

**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 USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad T14s Gen 4 (AMD)](https://www.lenovo.com/)

**Monitor Cable**

Monitor Cable
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

**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
- No smart card reader

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

**BIOS Security**
- Power-on password
- Supervisor password
**MANAGEABILITY**

**System Management**

- DASH
- Non-DASH

**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

**Notes:**

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

**ENVIRONMENTAL**

**Sustainability**

**Material**

- 50% recycled aluminium on storm grey top and keyboard cover
- 55% recycled aluminium on storm grey bottom cover
- 22% recycled carbon fiber hybrid on deep black top cover
- 90% recycled magnesium on deep black keyboard cover
- 55% recycled aluminium on deep black bottom cover
- 98% PCC recycled plastic used in speaker enclosure
- 97% 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
- Bulk packaging: 90% recycled and FSC certified content

**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)
### 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
- Lenovo USB-C to Ethernet Adapter
- None

### CERTIFICATIONS
#### Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT® Gold Registered[2]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified 9.0

### Other Certifications
- (Optional) Eyesafe Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light Method 2

---

*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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*The specifications on this page may not be available in all regions, and may be changed or updated without notice.*
## OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Smart card reader *</td>
</tr>
<tr>
<td>2</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>3</td>
<td>Kensington Nano Security Slot</td>
</tr>
<tr>
<td>4</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>5</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>6</td>
<td>HDMI</td>
</tr>
<tr>
<td>7</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>8</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<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**
13th Generation Intel® U or P Series Core™ i5 / i7 Processor

**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 P series processors are for special bid only.

**Operating System**

**Operating System**

- Linux
- Ubuntu Linux
- Windows® 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1], [2] 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 Iris Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12.1</td>
</tr>
</tbody>
</table>

**Monitor Support**

**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
- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

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

Memory Type
LPDDR5x-4800[1]

Notes:
[1] Installed memory is actually 6400MHz but run at 4800MHz 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™

Microphone
- Dual-microphone array, 360° far-field, Dolby Voice
- No microphone[2]

Camera**
- 5.0MP + IR discrete, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- No camera[2]

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

Battery

Battery
Integrated Li-Polymer 57Wh 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 12.4 hr @250nits
JEITA 2.0: up to 24.5 hr @150nits
Local video playback: up to 19.6 hr @150nits

Alternate configuration 2
MobileMark 25: up to 12.0 hr @250nits
JEITA 2.0: up to 18.0 hr @150nits
Local video playback: up to 16.5 hr @150nits

Alternate configuration 3
MobileMark 25: up to 11.2 hr @250nits
JEITA 2.0: up to 24.1 hr @150nits
Local video playback: up to 18.6 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA low power (non-touch), Intel i5-1335U, 16GB LPDDR5x, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), Intel i5-1345U, 16GB LPDDR5x, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA low power (non-touch), Intel i5-1340P, 16GB LPDDR5x, Win 11, 57Wh 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

Display**[1]

<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>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[2]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>600:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified 2.0</td>
</tr>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[3]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>600:1</td>
<td>45% NTSC</td>
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<td>85°/85°/85°/85°/85°/85°</td>
<td></td>
</tr>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[4]</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°/85°/85°</td>
<td></td>
</tr>
</tbody>
</table>
### Touchscreen
- On-cell multi-touch, supports 10-point touch
- Non-touch

Notes:
1. 2.2K display is NOT available in EMEA.
2. 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

**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)[2]**
- 317.5 x 226.9 x 16.9 mm (12.5 x 8.93 x 0.67 inches)

**Weight[2]**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deep black models</td>
<td>Starting at 1.25 kg (2.76 lbs)</td>
</tr>
<tr>
<td>Storm grey models</td>
<td>Starting at 1.48 kg (3.26 lbs)</td>
</tr>
</tbody>
</table>

**Case Color[**
- Deep black
- Storm grey

**Case Material[**
- Deep black models: carbon fiber hybrid (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[2]

**WLAN + Bluetooth[2]**
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- Quectel EM05-G, 4G LTE CAT4, 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] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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.
[4] Wireless WAN upgradable to 4G is ONLY available in EMEA.

Ports[1]

Standard Ports
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

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 T14s Gen 4 (Intel)

Monitor Cable

Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

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

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

Other Security
- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- Glance by Mirametrix®
- Ultrasonic Human Presence Detection (IR camera models)

MANAGEABILITY

System Management

System Management
- Intel vPro® Enterprise
- Non-vPro

Notes:
[1] 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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
22% recycled carbon fiber hybrid or 55% recycled aluminium on top cover
55% recycled aluminum on bottom cover
98% PCC recycled plastic used in speaker enclosure
97% recycled plastic used in the 57Wh battery
90% PCC recycled plastic used in standard 45W and 65W adapter
Low-temperature solder
Standard packaging: 90% plastic free packaging
Bulk packaging: 90% recycled and FSC certified content

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)

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

Lenovo USB-C to Ethernet Adapter
None

CERTIFICATIONS

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications

- (Optional) Eyesafe Certified 2.0
- (Optional) Intel Evo™ Platform
- (Optional) TÜV Rheinland® Low Blue Light Method 2

Notes:
- 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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## OVERVIEW

| 1. Headphone / microphone combo jack (3.5mm) | 6. Kensington Security Slot |
| 2. SD card reader | 7. Power connector |
| 3. HDMI | 8. Thunderbolt 4 |
| 4. 2x USB 3.2 Gen 1 | 9. Smart card reader * |
| 5. Ethernet (RJ-45) | |

**Notes:**
- Items with * are only available on selected models
- Nano-SIM card slot on the rear side (not shown on the sample product above)
PERFORMANCE

Processor

Processor Family
12th Generation H series Intel® Core™ i7 processor, supports up to 14 cores, up to 4.8GHz

**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>
</tr>
</thead>
<tbody>
<tr>
<td>Core i7-12700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.3GHz / E-core 1.7GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>24MB</td>
</tr>
<tr>
<td>Core i7-12800H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.4GHz / E-core 1.8GHz</td>
<td>P-core 4.8GHz / E-core 3.7GHz</td>
<td>24MB</td>
</tr>
</tbody>
</table>

Notes:

[1] Intel Iris® Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

**Operating System**

- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

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>NVIDIA® GeForce RTX™ 3050 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>35W</td>
<td>Dynamic Boost 2.0, DirectX® 12</td>
</tr>
</tbody>
</table>

Monitor Support

**Monitor Support**

Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and Thunderbolt™)
- HDMI supports up to 3840x2160@60Hz
- Thunderbolt supports up to 5120x3200@60Hz (Thunderbolt or USB-C® to DP)

Chipset

**Chipset**

Intel SoC (System on Chip) platform

Memory

**Max Memory**

Up to 64GB DDR5-4800

**Memory Slots**

Two DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**

DDR5-4800 non-ECC

Storage

**Storage Support**

Up to two drives, 2x M.2 SSD
- M.2 2280 SSD up to 4TB, 2TB each
- RAID 0/1 support

**Storage Slot**

Two M.2 2280 PCIe® 4.0 x4 slots
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>

RAID

RAID 0/1 support

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

Removable Storage

Optical
None

Card Reader
SD 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, far-field, Dolby Voice
- No microphone

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

Battery

Battery
Integrated Li-Polymer 68Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Power Adapter

Power Adapter[1]
135W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

Notes:

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>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/-/-</td>
<td>DC dimming</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>Multi-</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/-/-</td>
<td>DC dimming</td>
</tr>
<tr>
<td>15.6&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>85°/85°/-/-</td>
<td>DC dimming</td>
</tr>
</tbody>
</table>
ThinkPad T15p Gen 3

15.6” UHD (3840x2160) | None | IPS | 600nits | Anti-glare | 16:9 | 1400:1 | 100% Adobe® RGB | 85°/85°/-/- | Dolby Vision™, DisplayHDR™ 400, DC dimming

Touchscreen
- On-cell multi-touch, supports 10-point touch (selected FHD display)
- 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, numeric keypad

Keyboard Backlight
- LED backlight
- Non-backlight

UltraNav™
3-button TrackPoint® pointing device and Mylar® surface multi-touch touchpad

Mechanical

Dimensions (WxDxH)\(^[1]\)
366.5 x 250 x 22.7 mm (14.43 x 9.84 x 0.89 inches)

Weight\(^[2]\)

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with discrete graphics</td>
<td>Starting at 2.226 kg (4.91 lbs)</td>
</tr>
</tbody>
</table>

Case Color
Black

Case Material
PC-ABS (top), PC-ABS (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**
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®\(^[3]\)
Intel Wi-Fi® 6 AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready)

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, MIMO 4x4, M.2 card
- No support

SIM Card
- Gemalto eSIM card (physical)
- No physical SIM card inbox

NFC
No support

ThinkPad T15p Gen 3 - July 29 2023
Notes:

[1] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations.

Ports

Standard Ports

- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector
- 1x SD card reader
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 2x USB 3.2 Gen 1 (one Always On)

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.

[2] Power Delivery only supports power-out for charging peripherals.

Docking

Docking

Various docking solutions supported via Thunderbolt, USB-C, or USB-A.

For more compatible docking solutions, please visit Docking for ThinkPad® T15p Gen 3

Monitor Cable

Monitor Cable

- (Optional) Lenovo USB-C to DisplayPort Adapter
- (Optional) Lenovo HDMI to VGA Monitor Adapter
- (Optional) Lenovo USB-C to VGA Adapter

SECURITY & PRIVACY

Security

Security Chip

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

Physical Locks

Kensington® Security Slot™, 3 x 7 mm

Smart Card Reader

- Smart card reader
- No smart card reader

Fingerprint Reader

Touch style fingerprint reader on palm rest, match-on-chip

BIOS Security

- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS
Other Security
- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management
System Management
- Intel vPro Enterprise\[1\]
- Non-vPro

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

SERVICE

Warranty\[1\]
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

Notes:
\[1\] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
90% recycled / sustainable packaging

Operating Environment
Temperature\[1\]
- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

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).

CERTIFICATIONS

Green Certifications\[1\]
Green Certifications
ThinkPad T15p Gen 3

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered\(^2\)
- RoHS compliant

Notes:
\([1]\) The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.
\([2]\) EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

ISV Certifications

Please visit ISV certifications for Lenovo Workstations

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### OVERVIEW

<table>
<thead>
<tr>
<th></th>
<th>Port or Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Smart card reader *</td>
</tr>
<tr>
<td>2</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>3</td>
<td>Kensington Nano Security Slot</td>
</tr>
<tr>
<td>4</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>5</td>
<td>USB-C 3.2 Gen 2</td>
</tr>
<tr>
<td>6</td>
<td>USB-C 3.2 Gen 2</td>
</tr>
<tr>
<td>7</td>
<td>HDMI</td>
</tr>
<tr>
<td>8</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>9</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>10</td>
<td>Nano-SIM card 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 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 Graphics</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 Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**

- Linux[1]
- Ubuntu Linux[2]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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
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 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, far-field, Dolby Voice
- No microphone[1]

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

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

Battery
Battery
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 86Wh battery

Battery Life
Configuration 1 (max battery life)
MobileMark® 2018: up to 24.4 hr with 629 performance score @200nits
MobileMark 25: up to 23.2 hr with 532 performance score @250nits
JEITA 2.0: up to 35.0 hr @150nits
Local video playback: up to 29.7 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 11.1 hr with 795 performance score @200nits
MobileMark 25: up to 11.4 hr with 535 performance score @250nits
JEITA 2.0: up to 18.3 hr @150nits
Local video playback: up to 16.2 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 12.1 hr with 687 performance score @200nits
MobileMark 25: up to 11.3 hr with 542 performance score @250nits
JEITA 2.0: up to 15.5 hr @150nits
Local video playback: up to 14.0 hr @150nits
Notes:
[1] Configuration 1 (max battery life): WUXGA Low Power (non-touch), AMD Ryzen 7 PRO 6850U, 16GB LPDDR5, Win 10, 86Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), AMD Ryzen 5 PRO 6650U, 16GB LPDDR5, Win 10, 52.5Wh battery, best power efficiency power mode
Alternate configuration 3: WQXGA (non-touch), AMD Ryzen 5 PRO 6650U, 32GB LPDDR5, Win 10, 52.5Wh 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**
- 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
- 100W 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**

**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>16&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>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>-</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>-</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>-</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>16&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>-</td>
<td>85°/85°/85°/85°</td>
<td>Dolby Vision™, TÜV Rheinland® Low Blue Light</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, numeric keypad

Keyboard Backlight
- LED backlight
- Non-backlight

UltraNav™
TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67.7 x 115 mm (2.67 x 4.53 inches)

Mechanical

Dimensions (WxDxH)\(^{[1]}\)
361.9 x 255.5 x 20.5 mm (14.25 x 10.06 x 0.81 inches)

Weight\(^{[2]}\)

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with storm grey cover</td>
<td>Starting at 1.738 kg (3.83 lbs)</td>
</tr>
<tr>
<td>Models with thunder black cover</td>
<td>Starting at 1.810 kg (3.99 lbs)</td>
</tr>
</tbody>
</table>

Case Color**
- Storm grey
- Thunder black

Case Material**
- Storm grey models: aluminium (top), PPS (bottom)
- Thunder black models: PC + 20% CF + 50% GF (top), PPS (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**
- Gigabit Ethernet, Realtek RTL8111EPV (DASH models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Realtek RTL8111HN (non-DASH models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**\(^{[1]}\)
- MediaTek Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1\(^{[2]}\)
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1\(^{[3]}\)

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

SIM Card
- Gemalto eSIM card (physical)
- No physical SIM card inbox

NFC
- Near Field Communication
- No support

Notes:
\([1]\) Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
\([2], [3]\) 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[1]**

**Standard Ports**
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)

**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 USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad T16 Gen 1 (AMD)]

**Monitor Cable**

Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

**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
- No smart card reader

**Fingerprint Reader[1]**
- Touch style fingerprint reader integrated in power button, match-on-chip
- No fingerprint reader

**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) Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- Glance by Mirametrix®

Notes:
[1] Fingerprint reader is standard on storm grey models and optional on thunder black 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[2]

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.
[2] No base warranty is for special bid only.

ENVIRONMENTAL

Sustainability

Material
- 97% PCC recycled plastic used in speaker enclosure
- 97% PCC recycled plastic used in the 52.5Wh battery
- 25-30% PCC recycled plastic used in the 86Wh battery
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

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)

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).

ACCESSORIES

Bundled Accessories

Bundled Accessories

• Lenovo USB-C to Ethernet Adapter
• None

CERTIFICATIONS

Green Certifications

Green Certifications

• (Optional) ENERGY STAR® 8.0
• (Optional) 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.

[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

• (Optional) Eyesafe Certified
• (Optional) TÜV Rheinland Low Blue Light

• 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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Smart card reader *
2. USB 3.2 Gen 1
3. Kensington Nano Security Slot
4. Ethernet (RJ-45)
5. Thunderbolt 4
6. Thunderbolt 4
7. HDMI
8. USB 3.2 Gen 1 (Always On)
9. Headphone / microphone combo jack (3.5mm)
10. Nano-SIM card slot *

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

**Processor**

**Processor Family**

12th Generation Intel® Core™ 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>Processor Graphics</th>
</tr>
</thead>
<tbody>
<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 i7-1255U</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 i7-1260P</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*] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

**Operating System**

**Operating System**[*2*]

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

Notes:

[*1*], [*2*] 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 Iris Xe Graphics[*1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® GeForce MX550</td>
<td>Discrete</td>
<td>2GB GDDR6</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:

[*1*] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.
channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

**Monitor Support**

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**

Chipset

Intel SoC (System on Chip) platform

**Memory**

Max Memory

- Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200
- Up to 48GB (16GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots

One memory soldered to system board, one DDR4 SO-DIMM slot, dual-channel capable

**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 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4[2]</td>
<td>256GB / 512GB / 1TB</td>
<td>Opal 2.0</td>
</tr>
</tbody>
</table>

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

[2] 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[2]

Camera[2]
ThinkPad T16 Gen 1 (Intel)

- 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

Notes:
[1] No microphone is for special bid only.
[2] Only HD 720p and FHD 1080p + IR hybrid are available in EMEA.

Battery

- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 135W AC adapter
- Integrated Li-Polymer 86Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter

Battery Life

- Configuration 1 (max battery life)
  MobileMark® 2018: up to 10.1 hr with 786 performance score @200nits
  MobileMark 25: up to 8.5 hr with 617 performance score @250nits
  JEITA 2.0: up to 17.1 hr @150nits
  Local video playback: up to 16.5 hr @150nits

Alternate configuration 2
- MobileMark 2018: up to 9.4 hr with 911 performance score @200nits
- MobileMark 25: up to 6.6 hr with 655 performance score @250nits
- JEITA 2.0: up to 12.0 hr @150nits
- Local video playback: up to 10.1 hr @150nits

Alternate configuration 3
- MobileMark 2018: up to 7.5 hr with 1101 performance score @200nits
- MobileMark 25: up to 5.0 hr with 722 performance score @250nits
- JEITA 2.0: up to 8.6 hr @150nits
- Local video playback: up to 7.4 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), Intel i5-1240P, 8GB soldered, Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), Intel i5-1250P, 16GB (8GB soldered + 8GB SO-DIMM), Win 11, 52.5Wh battery, best power efficiency power mode
Alternate configuration 3: WQXGA, Intel i7-1280P, 32GB (16GB soldered + 16GB SO-DIMM), NVIDIA GeForce MX550, Win 11, 52.5Wh 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

- 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
- 135W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:
[2] 45W USB-C AC adapter is ONLY available for the models with integrated graphics.
45W USB-C AC adapter and 65W USB-C slim AC adapter are NOT available in EMEA.

[3] 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>16&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>800:1</td>
<td>45% NTSC</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>-</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>-</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>-</td>
<td>85°/85°/85°/85°</td>
<td>Eyesafe Certified</td>
</tr>
<tr>
<td>16&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>-</td>
<td>85°/85°/85°/85°</td>
<td>-</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] Low power display is NOT available in EMEA.

### Input Device

#### Keyboard

6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, numeric keypad

#### Keyboard Backlight

- LED backlight
- Non-backlight

#### UltraNav™

TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67.7 x 115 mm (2.67 x 4.53 inches)

### Mechanical

#### Dimensions (WxDxH)

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated graphics models</td>
<td>361.9 x 255.5 x 20.5 mm (14.25 x 10.06 x 0.81 inches)</td>
</tr>
<tr>
<td>Discrete graphics models</td>
<td>361.9 x 255.5 x 21.1 mm (14.25 x 10.06 x 0.83 inches)</td>
</tr>
</tbody>
</table>

#### Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with thunder black cover and integrated graphics</td>
<td>Starting at 1.769 kg (3.9 lbs)</td>
</tr>
<tr>
<td>Models with storm grey cover</td>
<td>Starting at 1.803 kg (3.97 lbs)</td>
</tr>
<tr>
<td>Models with thunder black cover and discrete graphics</td>
<td>Starting at 1.842 kg (4.06 lbs)</td>
</tr>
</tbody>
</table>

#### Case Color

- Storm grey
- Thunder black
Case Material

- Storm grey models: aluminium (top), PPS (bottom)
- Thunder black models: PC + 20% CF + 50% GF (top), PPS (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 cover is ONLY available for the models with integrated graphics.
Storm grey cover is ONLY available with backlit keyboard.
Storm grey cover is NOT available in EMEA.

CONNECTIVITY

Network

Ethernet**
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth**(1)
- Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[2]
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)[4]
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- No support

SIM Card
- Gemalto eSIM card (physical)
- No physical SIM card inbox

NFC[6]
- Near Field Communication
- No support

Notes:

[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[2], [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.
[4] Wireless WAN upgradable to 4G is ONLY available in EMEA.
[5] Fibocom L860-GL CAT16 is special bid only in EMEA.
[6] NFC is NOT available for storm grey models.
NFC is special bid only in EMEA.

Ports[1]

Standard Ports
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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™ 1.4)

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 T16 Gen 1 (Intel)](https://www.lenovo.com/thinkpad/t16-gen-1).

Monitor Cable

Monitor Cable***

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

Fingerprint Reader[1]
- Touch style fingerprint reader integrated in power button, match-on-chip
- No fingerprint reader

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

Other Security
- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- Glance by Mirametrix®
- Human Presence Detection (software)

Notes:
[1] Fingerprint reader is standard on storm grey models and optional on thunder black models.

MANAGEABILITY

System Management

System Management
• Intel vPro Enterprise
• Non-vPro

Notes:
[1] 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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.
[2] No base warranty is for special bid only.

ENVIRONMENTAL

Sustainability

Material
- 97% PCC recycled plastic used in speaker enclosure
- 97% PCC recycled plastic used in the 52.5Wh battery
- 25-30% PCC recycled plastic used in the 86Wh battery
- 95% PCC recycled plastic used in standard 65W adapter
- Low-temperature solder
- 90% recycled and/or sustainable packaging

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)

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
- None

CERTIFICATIONS
Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) 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.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications
Mil-Spec Test
MIL-STD-810H military test passed

Other Certifications
(Optional) Eyesafe Certified

- 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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# OVERVIEW

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Smart card reader *</td>
</tr>
<tr>
<td>2</td>
<td>USB 3.2 Gen 1</td>
</tr>
<tr>
<td>3</td>
<td>Kensington Nano Security Slot</td>
</tr>
<tr>
<td>4</td>
<td>Ethernet (RJ-45)</td>
</tr>
<tr>
<td>5</td>
<td>USB4 40Gbps</td>
</tr>
<tr>
<td>6</td>
<td>USB-C 3.2 Gen 2</td>
</tr>
<tr>
<td>7</td>
<td>HDMI</td>
</tr>
<tr>
<td>8</td>
<td>USB 3.2 Gen 1 (Always On)</td>
</tr>
<tr>
<td>9</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>10</td>
<td>Nano-SIM card slot *</td>
</tr>
</tbody>
</table>

*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 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**

- Linux[^1]
- Ubuntu Linux[^2]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[^1],[^2] 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 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**

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® or USB4®)
- 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)
- USB4 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**[^3]

- LPDDR5-6400 (8GB)
- LPDDR5x-6400 (16GB or 32GB)[^4]

Notes:
[1] Installed memory is actually 7500MHz, but run at 6400MHz 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</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[1]

Camera
- 5.0MP + IR discrete, with privacy shutter, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus
- No camera[2]

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

Battery

Battery
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 86Wh battery

Battery Life[1]
Configuration 1 (max battery life)
MobileMark® 25: up to 21.6 hr with 701 performance score @250nits
JEITA 2.0: up to 30.8 hr @150nits
Local video playback: up to 26.1 hr @150nits

Alternate configuration 2
MobileMark 25: up to 15.3 hr with 654 performance score @250nits
JEITA 2.0: up to 23.0 hr @150nits
Local video playback: up to 21.2 hr @150nits

Alternate configuration 3
MobileMark 25: up to 5.7 hr with 640 performance score @250nits
JEITA 2.0: up to 9.2 hr @150nits
Local video playback: up to 8.6 hr @150nits
Notes:

[1] Configuration 1 (max battery life): WUXGA Low Power (non-touch), AMD Ryzen 7 PRO 7840U, 16GB LPDDR5x, Win 11, 86Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), AMD Ryzen 5 PRO 7540U, 16GB LPDDR5x, Win 11, 86Wh battery, best power efficiency power mode
Alternate configuration 3: WQUXGA OLED (non-touch), AMD Ryzen 5 PRO 7540U, 32GB LPDDR5x, Win 11, 52.5Wh 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**

- 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
- 100W 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</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>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[1]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[2]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>16&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>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified 2.0</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQUXGA (3840x2400)</td>
<td>None</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>87.5°/87.5°/87.5°/87.5°</td>
<td>DisplayHDR™ True Black 500, Dolby Vision™, 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, numeric keypad
Keyboard Backlight
- LED backlight
- Non-backlight

UltraNav™
TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67.7 x 115 mm (2.67 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**
361.9 x 255.5 x 20.5 mm (14.25 x 10.06 x 0.81 inches)

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with thunder black cover and 52.5Wh battery</td>
<td>Starting at 1.71 kg (3.76 lbs)</td>
</tr>
<tr>
<td>Models with storm grey cover and 52.5Wh battery</td>
<td>Starting at 1.75 kg (3.84 lbs)</td>
</tr>
<tr>
<td>Models with thunder black cover and 86Wh battery</td>
<td>Starting at 1.83 kg (4.02 lbs)</td>
</tr>
<tr>
<td>Models with storm grey cover and 86Wh battery</td>
<td>Starting at 1.85 kg (4.08 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 (top), PPS (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**
Gigabit Ethernet, Realtek RTL8111E PV, 1x RJ-45, supports Wake-on-LAN

**WLAN + Bluetooth**
- MediaTek Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[2]
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]

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

**SIM Card**
No physical SIM card inbox

**NFC**
- Near Field Communication
- No support

Notes:

[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

[2], [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 Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

**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 USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad® T16 Gen 2 (AMD)](Docking for ThinkPad® T16 Gen 2 (AMD))

**Monitor Cable**

Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

**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
- No smart card reader

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

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

**Other Security**
ThinkPad T16 Gen 2 (AMD)

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

Notes:
[1] Fingerprint reader is standard on storm grey models and optional on thunder black models.

MANAGEABILITY

System Management

DASH

SERVICE

Warranty[^1]

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[^2]

Notes:
[^1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).
[^2] No base warranty is for special bid only.

ENVIRONMENTAL

Sustainability

Material
- 50% recycled aluminium on storm grey top cover
- 55% recycled aluminium on storm grey bottom cover
- 90% recycled magnesium on keyboard cover
- 90% PCC recycled plastic used in speaker enclosure
- 90% PCC recycled plastic used in the 52.5Wh and 86Wh battery
- 90% PCC recycled plastic used in standard 65W and 100W adapters
- Low-temperature solder
- Standard packaging: 90% plastic free packaging
- 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)

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).

**ACCESSORIES**

**Bundled Accessories**

- Lenovo USB-C to Ethernet Adapter
- None

**CERTIFICATIONS**

**Green Certifications**

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered
- ErP Lot 6/26
- RoHS compliant
- TCO Certified 9.0

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**Other Certifications**

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

- (Optional) Eyesafe Certified 2.0

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OVERVIEW

1. Smart card reader *
2. USB 3.2 Gen 1
3. Kensington Nano Security Slot
4. Ethernet (RJ-45)
5. Thunderbolt 4
6. Thunderbolt 4
7. HDMI
8. USB 3.2 Gen 1 (Always On)
9. Headphone / microphone combo jack (3.5mm)
10. Nano-SIM card 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

**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 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 Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

**Operating System**

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

Notes:

[1], [2] 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 Iris Xe Graphics[1]</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12.1</td>
</tr>
<tr>
<td>NVIDIA® GeForce MX550</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Notes:

[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.
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
- Models with 16GB LPDDR5x: 16GB soldered memory, not upgradable
- Models with 32GB LPDDR5x: 32GB soldered memory, not upgradable
- Models with DDR4 memory: up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200
- Models with DDR5 memory: up to 32GB (16GB soldered + 16GB SO-DIMM) DDR5-5200

Memory Slots
- Models with DDR4 memory: one memory soldered to system board, one DDR4 SO-DIMM slot, dual-channel capable
- Models with DDR5 memory: one memory soldered to system board, one DDR5 SO-DIMM slot, dual-channel capable
- Models with LPDDR5x memory: memory soldered to system board, no slots, dual-channel

Memory Type
- DDR4-3200 (models with integrated graphics)
- DDR5-5200 (models with integrated graphics)[2]
- LPDDR5x-4800 (models with discrete graphics)[3]

Notes:
[1] The max memory is based on the test results with current Lenovo* memory offerings.
[2] Installed DDR5 memory is actually 5600MHz but run at 5200MHz due to platform limitation.
[3] Installed LPDDR5x memory is actually 7500MHz but run at 4800MHz 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\(^1\)

**Camera**
- 5.0MP + IR discrete, with privacy shutter, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus
- No camera\(^2\)

---

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

**Battery**

**Battery**
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 135W AC adapter
- Integrated Li-Polymer 86Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter

**Battery Life**\(^1\)

Configuration 1 (max battery life)
- MobileMark® 25: up to 10.0 hr @250nits
- JEITA 2.0: up to 18.5 hr @150nits
- Local video playback: up to 16.9 hr @150nits

Alternate configuration 2
- MobileMark 25: up to 9.2 hr @250nits
- JEITA 2.0: up to 19.5 hr @150nits
- Local video playback: up to 17.1 hr @150nits

Alternate configuration 3
- MobileMark 25: up to 7.0 hr @250nits
- JEITA 2.0: up to 13.0 hr @150nits
- Local video playback: up to 12.3 hr @150nits

---

**Notes:**
1. Configuration 1 (max battery life): WUXGA (non-touch), Intel i5-1340P, 16GB soldered DDR5, Win 11, 52.5Wh battery, best power efficiency power mode
2. Alternate configuration 2: WUXGA low power (non-touch), Intel i5-1335U, 16GB soldered DDR5, Win 11, 52.5Wh battery, best power efficiency power mode
3. Alternate configuration 3: WUXGA (touch), Intel i5-1350P, 16GB soldered DDR5, Win 11, 52.5Wh 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
- 135W 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>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[1]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[2]</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>800:1</td>
<td>45% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
<tr>
<td>16&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>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe Certified 2.0</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-touch</td>
<td>IPS[4]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad Privacy Guard</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQUXGA (3840x2400)</td>
<td>None</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>87.5°/87.5°/87.5°/87.5°</td>
<td>DisplayHDR™ True Black 500, Dolby Vision™, Eyesafe Certified 2.0</td>
</tr>
</tbody>
</table>

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

Notes:
[1], [2], [3], [4] 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, numeric keypad

**Keyboard Backlight**
- LED backlight
- Non-backlight

**UltraNav™**
TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67.7 x 115 mm (2.67 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**[5]

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated graphics models</td>
<td>361.9 x 255.5 x 20.5 mm (14.25 x 10.06 x 0.81 inches)</td>
</tr>
<tr>
<td>Discrete graphics models</td>
<td>361.9 x 255.5 x 21.1 mm (14.25 x 10.06 x 0.83 inches)</td>
</tr>
</tbody>
</table>

**Weight**[2]

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models with thunder black cover and integrated graphics</td>
<td>Starting at 1.68 kg (3.70 lbs)</td>
</tr>
<tr>
<td>Models with storm grey cover and integrated graphics</td>
<td>Starting at 1.71 kg (3.75 lbs)</td>
</tr>
<tr>
<td>Models with discrete graphics</td>
<td>Starting at 1.74 kg (3.84 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 (top), PPS (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**
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**
- Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

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

SIM Card
No physical SIM card inbox

NFC
- Near Field Communication
- No support

Notes:
[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[2], [3] Wi-Fi 6E full features might be limited by country-level restrictions.

Ports

Standard Ports
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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™ 1.4)

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 T16 Gen 2 (Intel)

Monitor Cable
Monitor Cable***

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

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

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

Other Security
- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- Glance by Mirametrix®
- Ultrasonic Human Presence Detection (IR camera models)

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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material

- 50% recycled aluminium on storm grey top cover
- 55% recycled aluminium on storm grey bottom cover
- 90% recycled magnesium on keyboard cover
- 95% PCC recycled plastic used in speaker enclosure
- 97% PCC recycled plastic used in the 52.5Wh and 86Wh battery
- 90% PCC recycled plastic used in standard 45W, 65W and 135W adapters
- Low-temperature solder
- Standard packaging: 90% plastic free packaging
- 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)

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

Lenovo USB-C to Ethernet Adapter
None

CERTIFICATIONS

Green Certifications[1]

(Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered^{2}
• 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
(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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## 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

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**

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

Notes:

[1], [2] 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
ThinkPad X13 Gen 3 (AMD)

**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>
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<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</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**

**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</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 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 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 1.26 kg (2.78 lbs)</td>
</tr>
<tr>
<td>Models with WUXGA display, 41Wh battery, and storm grey top cover</td>
<td>Starting at 1.28 kg (2.82 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 1.34 kg (2.94 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>
</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.

**CONNECTIVITY**

**Network**

**Ethernet**

No onboard Ethernet[1]

**WLAN + Bluetooth®**[2]

- MediaTek Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[1]'
- Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[4]

**WWAN**

- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
- Quectel EM05-G, 4G LTE CAT4, 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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 HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 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)

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

Monitor Cable

Monitor Cable***
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort Adapter
• No monitor cable

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
• No smart card reader

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

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

**Other Security**
- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello
- Glance by Mirametrix*
- (Optional) Human Presence Detection

**MANAGEABILITY**

**System Management**
- System Management
  - DASH
  - Non-DASH

**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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

**ENVIRONMENTAL**

**Sustainability**

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

**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)

**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

• Lenovo USB-C to Ethernet Adapter
• None

CERTIFICATIONS

Green Certifications

• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• 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.
[2] EPEAT is registered where applicable, please see https://www.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

• 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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
# OVERVIEW

![Product Image]

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

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

---

**Reference:** Lenovo PSREF - ThinkPad X13 Gen 3 (Intel) - July 19, 2023
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 i7-1255U</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 i7-1260P</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, i7-1265U and i7-1280P are NOT available in EMEA.

Operating System

Operating System**

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

Notes:
[1], [2] 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
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
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 system board, 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 6400MHz but run at 4800MHz 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 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4[1]</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
ThinkPad X13 Gen 3 (Intel)

- 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**
### Display

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<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch Type</th>
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<tr>
<td>13.3”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>Anti-glare</td>
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<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”</td>
<td>WQXGA (2560x1600)</td>
<td>None</td>
<td>IPS</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</td>
</tr>
</tbody>
</table>

**Notes:**

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

[2] WQXGA display is NOT available in EMEA.

### Touchscreen

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

### 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)**

<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 1.20 kg (2.65 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>
<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 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 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>
</tbody>
</table>

**Case Color**

---

**ThinkPad X13 Gen 3 (Intel)** - July 19 2023
ThinkPad X13 Gen 3 (Intel)

- 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

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
- Quectel EM05-G, 4G LTE CAT4, 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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 HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

**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 Thunderbolt / USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad X13 Gen 3 (Intel)

Monitor Cable

Monitor Cable

• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort 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
• Smart card reader
• No smart card reader

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

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

Other Security
• (Optional) Camera privacy shutter
• (Optional) IR camera for Windows Hello
• (Optional) Privacy Guard with Privacy Alert
• Glance by Mirametrix®
• (Optional) Human Presence Detection
• Tile ready

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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

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

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)

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
• None

CERTIFICATIONS

Green Certifications

Green Certifications

• (Optional) ENERGY STAR® 8.0
• (Optional) 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.
[2] EPEAT is registered where applicable, please see https://www.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

• 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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

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

- Linux
- Ubuntu Linux
- Windows® 10 IoT Enterprise LTSC 2021
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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 Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Radeon 740M</td>
<td>Integrated</td>
<td>Shared</td>
</tr>
<tr>
<td>AMD Radeon 780M</td>
<td>Integrated</td>
<td>Shared</td>
</tr>
</tbody>
</table>

Monitor Support

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:
[1] 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
LPDDR5x-6400

Notes:
Installed memory is actually 7500MHz but run at 6400MHz 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[1]

**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[2]

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 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

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; 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°</td>
<td>Low power, Eyesafe® Certified 2.0</td>
<td></td>
</tr>
<tr>
<td>13.3&quot; 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°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot; 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°</td>
<td></td>
<td></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 (Wx Dx H)
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 5.1
• Qualcomm® Wi-Fi 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

WWAN
• Wireless WAN upgradable to 4G (with antenna ready)
• Fibocom L860-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
• Quectel EM05-G, 4G LTE CAT4, 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] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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.

[5] Wireless WAN upgradable to 4G is ONLY available in EMEA.
[6] NFC is mutually exclusive with smart card reader.

**Ports**[1]

**Standard Ports**
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

**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 USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad® X13 Gen 4 (AMD)](https://www.lenovo.com)

**Monitor Cable**

Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

**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**[1]
- Smart card reader
- No smart card reader

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

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

Other Security
(Optional) Camera privacy shutter
(Optional) IR camera for Windows Hello
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[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
50% recycled aluminium on storm grey top cover
50% recycled aluminium or 90% recycled magnesium on keyboard cover
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

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)

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
- None

CERTIFICATIONS

Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
(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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The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

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

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>Processor 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>
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<td>10 (2 P-core + 8 E-core)</td>
<td>12</td>
<td>P-core 1.7GHz / E-core 1.2GHz</td>
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<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**

• Linux[3]
• Ubuntu Linux[2]
• Windows® 10 IoT Enterprise LTSC 2021
• Windows 11 DG Windows 10 Pro 64
• Windows 11 Home
• Windows 11 Home Single Language
• Windows 11 Pro
• No operating system

Notes:
[1], [2] 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[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
- 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] Installed memory is actually 6400MHz but run at 4800MHz 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

ThinkPad X13 Gen 4 (Intel) - August 01 2023
Notes:
[1] No camera is for special bid only.

**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 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**

* 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>
</table>

ThinkPad X13 Gen 4 (Intel) - August 01 2023
**ThinkPad X13 Gen 4 (Intel)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Display</th>
<th>Anti-glare</th>
<th>Refresh Rate</th>
<th>Brightness</th>
<th>Viewing Angle</th>
<th>Color Gamut</th>
<th>Contrast Ratio</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.3&quot; WUXGA</td>
<td>None IPS ([1]) 300nits Anti-glare 16:10 1000:1 100% sRGB 85°/85°/85°/85° -</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot; WUXGA</td>
<td>Multi-touch IPS ([2]) 300nits Anti-glare 16:10 1000:1 100% sRGB 85°/85°/85°/85° -</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot; WUXGA</td>
<td>None IPS ([3]) 400nits Anti-glare 16:10 1200:1 100% sRGB 85°/85°/85°/85° Low power, Eyesafe Certified 2.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot; 2.8K</td>
<td>None OLED 400nits Anti-glare, anti-reflection, anti-smudge 16:10 100000:1 100% DCI-P3 85°/85°/85°/85° DisplayHDR™ True Black 500, Dolby Vision™, Eyesafe Certified 2.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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 \([3]\)

**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\([\star]\)**
- Deep black
- Storm grey

**Case Material\([\star]\)**
- 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®[2]
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)[4]
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- Quectel EM05-G, 4G LTE CAT4, 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[5]
- Near Field Communication
- No support

Notes:
[1] Ethernet support via optional Lenovo USB-C to Ethernet Adapter.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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.
[4] Wireless WAN upgradable to 4G is ONLY available in EMEA.
[5] NFC is mutually exclusive with smart card reader.

Ports[1]

Standard Ports
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

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)

Monitor Cable

Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
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\(^1\)
- Smart card reader
- No smart card reader

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

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

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

Notes:
\(^1\) Smart card reader is mutually exclusive with NFC.

MANAGEABILITY

System Management

System Management\(^2\)
- 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\(^1\)

Base Warranty\(^2\)
- 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

Notes:
\(^1\), \(^2\)
The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
- 50% recycled aluminium on storm grey top cover
- 50% recycled aluminium or 90% recycled magnesium on keyboard cover
- 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

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)

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

Lenovo USB-C to Ethernet Adapter
- None

CERTIFICATIONS

Green Certifications[^1]

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT® Gold Registered[^2]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified 9.0

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Other Certifications

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

Other Certifications
- (Optional) Eyesafe Certified 2.0
- (Optional) Intel Evo™ Platform

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OVERVIEW

1. Headphone / microphone combo jack (3.5mm) 6. Thunderbolt 4
2. Nano-SIM card slot * 7. HDMI
3. USB 3.2 Gen 1 8. USB 3.2 Gen 1 (Always On)
5. Thunderbolt 4 10. Pen slot *

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

Processor

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

Processor**

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<tr>
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</table>

Operating System

Operating System**

- Linux[1]
- Ubuntu Linux[2]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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>Intel Iris Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12.1</td>
</tr>
</tbody>
</table>

Monitor Support

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

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**
LPDDR4x-4266

**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 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4[^2]</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] 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® ALC3306 codec

**Speakers**
Stereo speakers, 2W x2, Dolby® Audio™

**Microphone**
Dual-microphone array, far-field, Dolby Voice

**Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

**Battery**

**Battery**
Integrated Li-Polymer 52.8Wh 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 12.63 hr with 862 performance score @200nits
  - MobileMark 25: up to 11.48 hr with 667 performance score @250nits
  - JEITA 2.0: up to 19.11 hr @150nits
  - Local video playback: up to 17.66 hr @150nits

- **Alternate configuration 2**
  - MobileMark 2018: up to 12.1 hr with 842 performance score @200nits
  - MobileMark 25: up to 10.83 hr with 721 performance score @250nits
  - JEITA 2.0: up to 18.23 hr @150nits
  - Local video playback: up to 15.7 hr @150nits

- **Alternate configuration 3**
  - MobileMark 2018: up to 11.63 hr with 836 performance score @200nits
  - MobileMark 25: up to 10.3 hr with 756 performance score @250nits
  - JEITA 2.0: up to 17.95 hr @150nits
  - Local video playback: up to 15.6 hr @150nits

**Notes:**
Configuration 1 (max battery life): WQXGA (touch), Intel i5-1235U, 8GB LPDDR4x, Win 11, 52.8Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA AR/AS (touch), Intel i5-1245U, 16GB LPDDR4x, Win 11, 52.8Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA AR/AS (touch), Intel i7-1265U, 32GB LPDDR4x, Win 11, 52.8Wh 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**

<table>
<thead>
<tr>
<th>Power Adapter**[1]</th>
<th>45W USB-C® (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz</td>
</tr>
<tr>
<td></td>
<td>65W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz</td>
</tr>
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<tr>
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<td>65W USB-C slim (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz</td>
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</tr>
</tbody>
</table>

Notes:


**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>Multi-touch</td>
<td>300nits</td>
<td>Anti-glare, anti-smudge</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</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>300nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</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>500nits</td>
<td>Anti-glare, anti-smudge</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WQXGA (2560x1600)</td>
<td>Multi-touch</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</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</td>
</tr>
</tbody>
</table>

Notes:

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

**Multi-mode**

**Input Device**
Pen
- Lenovo Integrated Pen, with built-in rechargeable battery, 4096 levels of pressure sensitivity, on-board garaged and rechargeable
- No pen (with a pen garage ready, purchase separately) [3]

Keyboard
6-row, spill-resistant, multimedia Fn keys with Unified Communications controls

Keyboard Backlight
LED backlight

UltraNav™
TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Notes:
1. No pen inbox is only for special bid models.

Mechanical
Dimensions (WxDxH) [3]
305 x 214.15 x 15.9 mm (12.0 x 8.43 x 0.63 inches)

Weight [2]
Starting at 1.19 kg (2.62 lbs)

Case Color
Thunder black

Case Material
Carbon fiber hybrid (top), carbon fiber hybrid (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® [2]
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 [3]

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
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 HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

**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 Yoga® Gen 3](#).

**Monitor Cable**

Monitor Cable***
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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**
- Smart card reader
- No smart card reader

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

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

- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- Glance by Mirametrix®
- Tile ready

MANAGEABILITY

System Management

System Management

- Intel vPro® Enterprise\(^1\)
- Non-vPro

Notes:

\(^1\) Intel vPro offers a superset of DASH’s defined capabilities.

SERVICE

Warranty\(^1\)

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

Notes:

\(^1\) The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
30% PCC recycled plastic used in speaker enclosure
25% PCC recycled plastic used in the 57Wh battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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
• None

CERTIFICATIONS

Green Certifications[1]

Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• 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.
[2] EPEAT is registered where applicable, please see https://www.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

• 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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
# OVERVIEW

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

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

Processor

Processor Family

13th Generation Intel® U or P Series Core™ 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>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 i5-1345U</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 P series processors are for special bid only.

Operating System

Operating System**

- Linux[1]
- Ubuntu Linux[2]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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 Iris Xe Graphics</td>
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<td>Shared</td>
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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

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] Installed memory is actually 6400MHz but run at 4800MHz 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>
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<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>256GB / 512GB / 1TB</td>
<td>Opal 2.0</td>
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<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
- No camera

---

**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 11.2 hr with 769 performance score @250nits
JEITA 2.0: up to 22.6 hr @150nits  
Local video playback: up to 18.0 hr @150nits

Alternate configuration 2
MobileMark 25: up to 10.8 hr with 707 performance score @250nits  
JEITA 2.0: up to 21.8 hr @150nits  
Local video playback: up to 17.3 hr @150nits

Alternate configuration 3
MobileMark 25: up to 9.8 hr with 739 performance score @250nits  
JEITA 2.0: up to 18.1 hr @150nits  
Local video playback: up to 15.3 hr @150nits

---

Notes:
[1] Configuration 1 (max battery life): WUXGA low power (touch), Intel i5-1335U, 8GB LPDDR5, Win 11, 54.7Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA low power (touch), Intel i7-1360P, 16GB LPDDR5, Win 11, 54.7Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA anti-glare (touch), Intel i7-1370P, 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 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.

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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

Notes:

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DESIGN

Display

Display**[1]

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<tr>
<th>Size</th>
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<td>13.3&quot;</td>
<td>WUXGA</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified 2.0</td>
</tr>
<tr>
<td></td>
<td>(1920x1200)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>IPS</td>
<td>300nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°/85°</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1920x1200)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WUXGA</td>
<td>Multi-touch</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°/85°</td>
<td></td>
</tr>
</tbody>
</table>

Touchscreen

OGS (One Glass Solution) multi-touch, supports 10-point touch

Notes:

ThinkPad X13 Yoga Gen 4 - July 19 2023
IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

**Multi-mode**

Laptop, tent, stand, and tablet modes supported by 360° hinge

**Input Device**

**Pen**
- Lenovo Integrated Pen, with built-in rechargeable battery, 4096 levels of pressure sensitivity, on-board garaged and rechargeable
- No pen (with a pen garage ready, purchase separately)

**Keyboard**

6-row, spill-resistant, multimedia Fn keys with Unified Communications controls

**Keyboard Backlight**

LED backlight

**UltraNav™**

TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)**

301.7 x 214.6 x 16.4 mm (11.88 x 8.45 x 0.65 inches)

**Weight**

Starting at 1.21 kg (2.66 lbs)

**Case Color**
- Deep black
- Storm grey

**Case Material**

Magnesium (top), magnesium (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®**

Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**

- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- Quectel EM05-G, 4G LTE CAT4, 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.

Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

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.

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

Ports

Standard Ports
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

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 Yoga® Gen 4

Monitor Cable

Monitor Cable
- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort 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
- Smart card reader
- No smart card reader

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

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

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

MANAGEABILITY

System Management
System Management
• Intel vPro® Enterprise[1]
• Non-vPro

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

SERVICE

Warranty[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
90% recycled magnesium on top cover
90% recycled magnesium on keyboard cover
90% recycled magnesium 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

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)

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
- None

CERTIFICATIONS

Green Certifications[^1]

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[^2]
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
- (Optional) Eyesafe Certified 2.0
- (Optional) Intel Evo™ Platform

---

[**] 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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The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Headphone / microphone combo jack (3.5mm)  
2. Nano-SIM card slot *  
3. Kensington Nano Security Slot  
4. USB-C 3.2 Gen 2  
5. USB-C 3.2 Gen 2

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

Processor

Processor Family
Qualcomm® Snapdragon™ Processor

<table>
<thead>
<tr>
<th>Processor Name</th>
<th>Cores</th>
<th>Threads</th>
<th>Max Frequency</th>
<th>Cache</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualcomm Snapdragon 8cx Gen 3</td>
<td>4x Kryo Prime + 4x Kryo Gold</td>
<td>8</td>
<td>Kryo Prime / Gold @3.0GHz</td>
<td>1MB L2 for Prime core + 512KB L2 for Gold Core™</td>
<td>Qualcomm Adreno™ 690 GPU</td>
</tr>
</tbody>
</table>

Operating System

Operating System
- Windows® 11 Home (on ARM)
- Windows 11 Home Single Language (on ARM)
- Windows 11 Pro (on ARM)

Graphics

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualcomm Adreno 690 GPU</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support
Supports up to 3 independent displays (native display and 2 external monitors via USB-C®)
- USB-C supports up to 5K@60Hz

Chipset

Chipset
Qualcomm 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 system board, no slots, dual-channel

Memory Type
LPDDR4x-4266

Storage

Storage Support
One drive, up to 1TB M.2 2242 SSD

Storage Slot
One M.2 2242 PCIe® 3.0 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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] PCIe 4.0x4 is downgraded to closer to PCIe 3.0x4 due to the system slot limitation.

Removable Storage
**Card Reader**
No card reader

**Multi-Media**

**Audio Chip**
High Definition (HD) Audio, Qualcomm WCD9385 codec

**Speakers**
Stereo speakers, 2W x2, Dolby® Audio™

**Microphone**
Triple-microphone array, far-field

**Camera**
- 5.0MP + IR discrete, with E-shutter, MIPI, fixed focus
- 5.0MP + IR discrete, with E-shutter, MIPI, fixed focus, Computer Vision
- 5.0MP, with E-shutter, MIPI, fixed focus

**Battery**

**Battery**
Integrated Li-Polymer 49.5Wh battery

**Battery Life**[^1]
Configuration 1 (max battery life)
Local video playback: up to 28 hr @150nits

Alternate configuration 2
Local video playback: up to 26.2 hr @150nits

Alternate configuration 3
Local video playback: up to 22.2 hr @150nits

---

**Notes:**

[^1]: Configuration 1 (max battery life): WUXGA 400nits (non-touch), Qualcomm Snapdragon 8cx Gen 3, 8GB LPDDR4x, Win 11, 49.5Wh battery, balanced power mode
Alternate configuration 2: WUXGA 300nits (non-touch), Qualcomm Snapdragon 8cx Gen 3, 16GB LPDDR4x, Win 11, 49.5Wh battery, balanced power mode
Alternate configuration 3: WUXGA 300nits (touch), Qualcomm Snapdragon 8cx Gen 3, 32GB LPDDR4x, Win 11, 49.5Wh battery, balanced power mode

All battery life claims are approximate maximum and based on results using continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level) 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]: AC adapter offerings depend on the country.
[^2]: No power adapter is for special bid only.
ThinkPad X13s Gen 1

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>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe® Certified</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>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td></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

UltraNav™
TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Mechanical

Dimensions (WxDxH)[1]
298.7 x 206.4 x 13.4 mm (11.76 x 8.13 x 0.53 inches)

Weight[2]
Starting at 1.06 kg (2.35 lbs)

Case Color
Thunder black

Case Material
Magnesium-aluminium (top), GFRP (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®[2]
Qualcomm Wi-Fi® 6E WCN6855, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1[3]

WWAN**

- Qualcomm Snapdragon X55 5G Modem-RF System, Sub-6 GHz, M.2 card, with embedded eSIM functionality
- Qualcomm Snapdragon X55 5G Modem-RF System, Sub-6 GHz & mmWave, M.2 card, with embedded eSIM
**functionality**
- No support

**SIM Card**
No physical SIM card inbox

**NFC**
No support

---

**Notes:**

[1] Ethernet support via optional Lenovo USB-C to Ethernet Adapter.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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 Headphone / microphone combo jack (3.5mm)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)

**Optional Ports**
- 1x Nano-SIM card slot (WWAN support models)

**Docking**

Various docking solutions supported via USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad® X13s Gen 1](#)

---

**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**
No smart card reader

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

**BIOS Security**
- Power-on password
- Supervisor password
- System management password
- Self-healing BIOS

---

**Other Security**
E-shutter
(Optional) Computer Vision-based User Presence Sensing including lock on leave

SERVICE

Warranty

Base Warranty

- 1-year courier service
- 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 service
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service
- No base warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
90% certified recycled magnesium
97% PCC recycled plastic used in speaker enclosure
30% PCC recycled plastic used in the 49.5Wh battery
30% PCC recycled plastic used in standard 65W adapter
90% recycled and/or sustainable packaging

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)

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
- Lenovo USB-C Port Replicator
- None

CERTIFICATIONS

Green Certifications

ThinkPad X13s Gen 1 - July 12 2023
Green Certifications

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered[^2]
- 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.
[^2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

(Optional) Eyesafe Certified

- 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
## OVERVIEW

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

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

#### Processor

**Processor Family**

12th Generation Intel® 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>Graphics</th>
</tr>
</thead>
<tbody>
<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 i7-1255U</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 i7-1260P</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>
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<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>
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<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] NOT available in EMEA.

#### Operating System

**Operating System**

- Fedora Linux
- Linux
- Ubuntu Linux
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No 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>Key Features</th>
</tr>
</thead>
<tbody>
<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**

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**

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 system board, no slots, 8-channel

Memory Type

LPDDR5-5200

Notes:

[1] 8GB memory is NOT available in EMEA.
[2] Installed memory is actually 6400MHz but run at 5200MHz due to processor 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>
<th></th>
</tr>
</thead>
<tbody>
<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>
<td></td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4</td>
<td>256GB / 512GB / 1TB</td>
<td>Opal 2.0</td>
<td></td>
</tr>
</tbody>
</table>

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
[2] 512GB and 1TB are NOT available 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® 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

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Notes:
[1] HD 720p camera is NOT available in EMEA.

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® 2018: up to 15.0 hr with 838 performance score @200nits
MobileMark 25: up to 13.1 hr with 663 performance score @250nits
JEITA 2.0: up to 24.9 hr @150nits
Local video playback: up to 19.9 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 14.3 hr with 840 performance score @200nits
MobileMark 25: up to 11.3 hr with 623 performance score @250nits
JEITA 2.0: up to 21.7 hr @150nits
Local video playback: up to 19.7 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 14.2 hr with 809 performance score @200nits
MobileMark 25: up to 11.1 hr with 600 performance score @250nits
JEITA 2.0: up to 21.7 hr @150nits
Local video playback: up to 19.7 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), Intel i5-1235U, 8GB LPDDR5, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (non-touch), Intel i5-1240P, 16GB LPDDR5, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (non-touch), Intel i7-1260P, 16GB LPDDR5, Win 11, 57Wh 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][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

Notes:
[2] In EMEA only 65W USB-C slim AC adapters are available.

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</th>
<th>Contrast</th>
<th>Color</th>
<th>Viewing Angle</th>
<th>Key Features</th>
</tr>
</thead>
</table>

ThinkPad X1 Carbon Gen 10 - July 19 2023
<table>
<thead>
<tr>
<th>Model</th>
<th>Display Type</th>
<th>Camera</th>
<th>Touchscreen</th>
<th>Brightness</th>
<th>Anti-glare</th>
<th>Ratio</th>
<th>Ratio</th>
<th>Gamut</th>
<th>(L/R/U/D)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>14” WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS[2]</td>
<td>Anti-glare</td>
<td>400nits</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe Certified</td>
<td></td>
</tr>
<tr>
<td>14” WUXGA (1920x1200)</td>
<td>On-cell touch</td>
<td>IPS[3]</td>
<td>Anti-glare</td>
<td>400nits</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power, Eyesafe Certified</td>
<td></td>
</tr>
<tr>
<td>14” WUXGA (1920x1200)</td>
<td>On-cell touch</td>
<td>IPS[4]</td>
<td>Anti-glare</td>
<td>500nits</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
<td></td>
</tr>
<tr>
<td>14” 2.2K (2240x1400)</td>
<td>None</td>
<td>IPS[5]</td>
<td>Anti-glare</td>
<td>300nits</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>TÜV Low Blue Light Method 2</td>
<td></td>
</tr>
<tr>
<td>14” 2.8K (2880x1800)</td>
<td>None</td>
<td>OLED</td>
<td>Anti-glare, anti-reflection, anti-smudge</td>
<td>400nits</td>
<td>16:10</td>
<td>10000:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>DisplayHDR™ True Black 500, Dolby Vision™, Eyesafe Certified</td>
<td></td>
</tr>
<tr>
<td>14” WQUXGA (3840x2400)</td>
<td>None</td>
<td>IPS[6]</td>
<td>Glossy</td>
<td>500nits</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>Low power, DisplayHDR 400, Dolby Vision, Eyesafe Certified</td>
<td></td>
</tr>
<tr>
<td>14” WQUXGA (3840x2400)</td>
<td>Add-on Film Touch</td>
<td>IPS[7]</td>
<td>Anti-glare, anti-reflection, anti-smudge</td>
<td>500nits</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>Low power, DisplayHDR 400, Dolby Vision, Eyesafe Certified</td>
<td></td>
</tr>
</tbody>
</table>

**Touchscreen**
- Add-on Film Touch, supports 10-point touch
- On-cell multi-touch, supports 10-point touch
- Non-touch

**Notes:**
[1] 2.2K display and Add on Film Touch display are NOT available in EMEA.
[2], [3], [4], [5], [6], [7] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

**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>720p camera</td>
<td>315.6 x 222.5 x 14.95 mm (12.43 x 8.76 x 0.59 inches)</td>
</tr>
<tr>
<td>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:
[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®[2]

• Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]
• Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[4]

WWAN**

• Wireless WAN upgradable to 4G (with antenna ready)
• Fibocom L860-GL-16, 4G LTE CAT16, MIMO 4x4, 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[3] Wi-Fi 6 full features might be limited by country-level restrictions.
[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[1]

Standard Ports

• 1x HDMI 2.1, up to 4K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 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)

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

Various docking solutions supported via Thunderbolt / USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad X1 Carbon Gen 10

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

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

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[1]

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

[1]
ThinkPad X1 Carbon Gen 10

- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service
- No base warranty

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability
Material
95% PCC recycled plastic used in speaker enclosure
25-30% PCC recycled plastic used in the 57Wh battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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
- None

CERTIFICATIONS

Green Certifications
Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- 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.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications
Mil-Spec Test
MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe Certified
- (Optional) Intel Evo™ Platform
- (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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
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

**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**

- Fedora Linux
- Linux
- Ubuntu Linux
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No 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**

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 system board, 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**
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

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 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

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&quot;</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&quot;</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>
ThinkPad X1 Carbon Gen 11

14” WUXGA (1920x1200) Multi-touch IPS\(^3\) 500nits Anti-glare 16:10 1000:1 100% sRGB 85°/85°/85°/85° ThinkPad® Privacy Guard
14” 2.2K (2240x1400) None IPS\(^4\) 300nits Anti-glare 16:10 1500:1 100% sRGB 85°/85°/85°/85° TÜV Low Blue Light Method 2
14” 2.8K (2880x1800) None OLED 400nits Anti-glare, anti-reflection, anti-smudge 16:10 100000:1 100% DCI-P3 85°/85°/85°/85° DisplayHDR™ True Black 500, Dolby Vision™, Eyesafe Certified 2.0

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

Notes:
[1], [2], [3], [4] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

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)\(^5\)

<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\(^2\)
Starting at 1.12 kg (2.48 lbs)

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

Case Material
Carbon fiber (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\(^3\)

WLAN + Bluetooth®\(^2\)
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1\(^3\)

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] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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 HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

**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**

---

ThinkPad X1 Carbon Gen 11 - July 19 2023
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

**Other Security**
- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (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
- Intel vPro Essentials
- 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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/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**
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)

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

Lenovo USB-C to Ethernet Adapter
None

CERTIFICATIONS

Green Certifications[1]

Green Certifications
(Optional) ENERGY STAR® 8.0
(Optional) EPEAT™ Gold Registered[2]
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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
(Optional) Eyesafe Certified 2.0
(Optional) Intel Evo™ Platform
(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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The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. SD Express 7.0 card reader
2. USB 3.2 Gen 1
3. USB 3.2 Gen 1 (Always On)
4. Kensington Nano Security Slot
5. Power connector
6. 2x Thunderbolt 4
7. HDMI
8. Headphone / microphone combo jack (3.5mm)

Notes:
• Optional nano-SIM card slot on the right side (not shown on the sample product above)
PERFORMANCE

Processor

Processor Family
12th Generation Intel® Core™ i7 / i9 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 i7-12700H</td>
<td>14</td>
<td>20</td>
<td>P-core 2.3GHz / E-core 1.7GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>24MB</td>
<td>Intel Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core i7-12800H</td>
<td>14</td>
<td>20</td>
<td>P-core 2.4GHz / E-core 1.8GHz</td>
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</tr>
<tr>
<td>Core i9-12900H</td>
<td>14</td>
<td>20</td>
<td>P-core 2.5GHz / E-core 1.8GHz</td>
<td>P-core 5.0GHz / E-core 3.8GHz</td>
<td>24MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
</tbody>
</table>

Operating System

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

Notes:
[^1],[^2] 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>NVIDIA® GeForce RTX™ 3080 Ti Laptop GPU</td>
<td>Discrete</td>
<td>16GB GDDR6</td>
<td>DirectX® 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3050 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3060 Laptop GPU</td>
<td>Discrete</td>
<td>6GB GDDR6</td>
<td>DirectX 12</td>
</tr>
<tr>
<td>NVIDIA GeForce RTX 3070 Laptop GPU</td>
<td>Discrete</td>
<td>8GB GDDR6</td>
<td>DirectX 12</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support[^3]
Supports up to 5 independent displays in hybrid mode (native display and 4 external monitors via HDMI® and Thunderbolt™);
Supports up to 4 independent displays in discrete mode (native display and 3 external monitors via HDMI and Thunderbolt);
- HDMI supports up to 8K@60Hz
- Thunderbolt supports up to 5K@60Hz

Notes:
[^1] Refresh rates >60hz also supported, however max resolution will be limited.
8K resolution support needs 2 display pipes. That is, simultaneous display number will “-1” when 8K resolution displayed.

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory
Max Memory
Up to 64GB DDR5-4800
Memory Slots
Two DDR5 SO-DIMM slots, dual-channel capable
Memory Type
DDR5-4800

Notes:
[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage
Storage Support
- Models with RTX 3050 Ti graphics:
  up to two drives, 2x M.2 SSD
  - M.2 2280 SSD up to 4TB
  - RAID 0/1 support
- Models with RTX 3060/3070 Ti/3080 Ti graphics:
  one drive, up to 4TB M.2 2280 SSD

Storage Slot
- One M.2 2280 PCIe® 4.0 x4 slot (models with RTX 3060/3070 Ti/3080 Ti graphics)
- Two M.2 2280 PCIe 4.0 x4 slots (models with RTX 3050 Ti graphics)

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 Performance</td>
<td>512GB / 1TB / 2TB / 4TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4[1]</td>
<td>256GB / 512GB / 1TB</td>
<td>Opal 2.0</td>
</tr>
</tbody>
</table>

RAID
- RAID 0/1 support

Notes:
[1] The storage capacity supported is based on the test results with current Lenovo storage offerings.
[2] Opal capability is not available in RAID mode.
[3] PCIe x4 may be PCIe 3.0x4 or PCIe 4.0x4 as substitution.

Removable Storage
Card Reader
SD Express 7.0 card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3306 codec
Speakers
Stereo speakers, 2W x2, Dolby® Atmos®
Microphone
Dual-microphone array, far-field, Dolby Voice
Camera
FHD 1080p + IR hybrid, with privacy shutter, fixed focus

Battery
Battery
Integrated Li-Polymer 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Battery Life[1]
- Configuration 1 (max battery life)
  - MobileMark® 2018: up to 11.0 hr with 907 performance score @200nits
  - MobileMark® 25: up to 9.8 hr with 627 performance score @250nits
JEITA 2.0: up to 22.0 hr @150nits
Local video playback: up to 15.3 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 10.4 hr with 945 performance score @200nits
MobileMark 25: up to 9.7 hr with 632 performance score @250nits
JEITA 2.0: up to 19.3 hr @150nits
Local video playback: up to 14.5 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 6.7 hr with 861 performance score @200nits
MobileMark 25: up to 5.8 hr with 556 performance score @250nits
JEITA 2.0: up to 12.5 hr @150nits
Local video playback: up to 10.3 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), Intel i7-12700H, 16GB DDR5, NVIDIA GeForce RTX 3050 Ti, Win 10, 90Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (non-touch), Intel i7-12800H, 32GB DDR5, NVIDIA GeForce RTX 3050 Ti, Win 10, 90Wh battery, best power efficiency power mode
Alternate configuration 3: WQUXGA (touch), Intel i7-12900H, 64GB DDR5, NVIDIA GeForce RTX 3080 Ti, Win 10, 90Wh 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]

- 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- No power adapter

Notes:
[2] 170W is for RTX 3050 Ti graphics only.
[3] 230W is for RTX 3060/3070 Ti/3080 Ti graphics 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>Refresh Rate</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>16&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89°/89°/80°/80°</td>
<td>TÜV Low Blue Light Method 2</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQXGA (2560x1600)</td>
<td>None</td>
<td>IPS</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1200:1</td>
<td>100% sRGB</td>
<td>165Hz</td>
<td>89°/89°/80°/80°</td>
<td>DisplayHDR™ 400, Dolby Vision™, TÜV Low Blue Light Method 2[2]</td>
</tr>
<tr>
<td>16&quot;</td>
<td>WQUXGA (3840x2400)</td>
<td>None</td>
<td>IPS</td>
<td>600nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% Adobe® RGB</td>
<td>60Hz</td>
<td>85°/85°/85°/85°</td>
<td>-</td>
</tr>
</tbody>
</table>
Color Calibration
X-Rite® factory color calibration

Touchscreen
• OGM (One Glass Metal mesh) multi-touch, supports 10-point touch
• Non-touch

Notes:
[1] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.
[2], [3] Dolby Vision and DisplayHDR 400 are only supported under hybrid graphics mode.

Input Device
Pen
• Lenovo Precision Pen 2 with built-in rechargeable battery, 4096 levels of pressure sensitivity, tilt detection, supports WGP, AES 2.0 and MPP 2.0 protocols. For more information, please read Lenovo Precision Pen 2
• No pen (purchase separately)
• No support (non-touch display doesn’t support pen input)

Keyboard
6-row, spill-resistant, multimedia Fn keys with Unified Communications controls

Keyboard Backlight
LED backlight

UltraNav™
TrackPoint® pointing device and glass surface multi-touch touchpad, 67.7 x 115 mm (2.67 x 4.53 inches)

Mechanical
Dimensions (WxDxH)[3]
359.5 x 253.8 x 17.9 mm (14.15 x 9.99 x 0.7 inches)

Weight[2]
Starting at 1.88 kg (4.14 lbs)

Case Color**
• Deep black, paint (WUXGA or WQXGA models)
• Deep black, weave (WQUXGA models)

Case Material
Carbon fiber (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[9]

WLAN + Bluetooth®[2]
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]

WWAN[4]
Fibocom FM350-GL, 5G Sub-6 GHz, M.2 Card, with embedded eSIM functionality

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] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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.
[4] WWAN is only available on the models with RTX 3050 Ti graphics.

Ports

Standard Ports
• 1x HDMI 2.1, up to 8K/60Hz
• 1x Headphone / microphone combo jack (3.5mm)
• 1x Power connector
• 1x SD Express 7.0 card reader
• 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™ 1.4)

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 Extreme Gen 5

Monitor Cable

Monitor Cable
• Lenovo HDMI to VGA Monitor Adapter
• Lenovo USB-C to VGA Adapter
• Lenovo USB-C to DisplayPort 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

Other Security
- Camera privacy shutter
- IR camera for Windows Hello
- Glance by Mirametrix®
- Tile ready

MANAGEABILITY

System Management

System Management
- Intel vPro® Enterprise
- Non-vPro

Notes:

[1] 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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
- 30% PCC recycled plastic used in speaker enclosure
- 30% PCC recycled plastic used in the 90Wh battery
- Low-temperature solder
- 90% recycled and/or sustainable packaging

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)

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)
- Lenovo USB-C to Ethernet Adapter (2.5Gbps)
- None

CERTIFICATIONS

Green Certifications[1]

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- 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.
[2] EPEAT is registered where applicable, please see https://www.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 Method 2

- 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.

ThinkPad X1 Extreme Gen 5 - July 29, 2023
OVERVIEW

1. Thunderbolt 4
2. Volume buttons
3. Power button
4. USB-C 3.2 Gen 2
5. Thunderbolt 4

Notes:
• Optional nano-SIM card slot on the left of Port 1 (not shown on the sample product above)
PERFORMANCE

Processor

Processor Family
12th Generation Intel® 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 i5-1230U</td>
<td>10 (2 P-core + 8 E-core)</td>
<td>12</td>
<td>P-core 1.0GHz / E-core 0.7GHz</td>
<td>P-core 4.4GHz / E-core 3.3GHz</td>
<td>12MB</td>
<td>Intel Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core i5-1240U</td>
<td>10 (2 P-core + 8 E-core)</td>
<td>12</td>
<td>P-core 1.1GHz / E-core 0.8GHz</td>
<td>P-core 4.4GHz / E-core 3.3GHz</td>
<td>12MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i7-1250U</td>
<td>10 (2 P-core + 8 E-core)</td>
<td>12</td>
<td>P-core 1.1GHz / E-core 0.8GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>12MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i7-1260U</td>
<td>10 (2 P-core + 8 E-core)</td>
<td>12</td>
<td>P-core 1.1GHz / E-core 0.8GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>12MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
</tbody>
</table>

Operating System

**Operating System**
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro

Graphics

**Graphics**

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<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**
Supports up to 4 independent displays (native display and 3 external monitors via Thunderbolt™ and USB-C®)
- USB-C supports up to 3840x2160@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

Chipset

**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, 8-channel

**Memory Type**
LPDDR5-5200

Storage

**Storage Support**
One drive, up to 1TB M.2 2242 SSD

**Storage Slot**
One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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.

Removable Storage

Card Reader
No card reader

Multi-Media

Audio Chip
High Definition (HD) Audio

Speakers
Stereo speakers, 2W x3, Dolby® Atmos®, 2 of 3 speakers enabled in each posture

Microphone
Quad-microphone array, far-field, Dolby Voice, 2 of 4 microphones enabled in each posture

Camera

- 5.0MP + IR discrete, MIPI, fixed focus
- 5.0MP + IR discrete, MIPI, fixed focus, Computer Vision

Battery

Battery

- Integrated Li-Polymer 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 64Wh (48Wh + 16Wh) battery, gets 4 hours of runtime with a 30-minute charge

Battery Life

Configuration 1 (max battery life)
MobileMark® 2018: up to 11.28 hr with 834 performance score @200nits
MobileMark 25: up to 10.23 hr with 818 performance score @250nits
JEITA 2.0: up to 14.65 hr @150nits
Local video playback: up to 15.18 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 11.23 hr with 830 performance score @200nits
MobileMark 25: up to 9.73 hr with 843 performance score @250nits
JEITA 2.0: up to 14.5 hr @150nits
Local video playback: up to 14.75 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 8.06 hr with 768 performance score @200nits
MobileMark 25: up to 6.58 hr with 771 performance score @250nits
JEITA 2.0: up to 10.5 hr @150nits
Local video playback: up to 9.96 hr @150nits

Notes:
[1] Configuration 1 (max battery life): 2560x2024 OLED, Intel i5-1240U, 16GB LPDDR5, Win 11, 64Wh battery, best power efficiency power mode
Alternate configuration 2: 2560x2024 OLED, Intel i5-1240U, 16GB LPDDR5, Win 11, 64Wh battery, best power efficiency power mode
Alternate configuration 3: 2560x2024 OLED, Intel i5-1240U, 8GB LPDDR5, Win 11, 48Wh 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]
- 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

Notes:

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>16.3&quot;</td>
<td>2560x2024</td>
<td>Multi-touch</td>
<td>Folding OLED</td>
<td>SDR / HDR / 400nits</td>
<td>Anti-smudge</td>
<td>4:3</td>
<td>1000000:1</td>
<td>100% DCI-P3</td>
<td>89°/89°/89°/89°</td>
<td>16.3&quot; when open and 12&quot; when folded, DisplayHDR™ True Black 600, Dolby Vision™</td>
</tr>
</tbody>
</table>

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

Multi-mode

Multi-mode
Laptop with OSK (on screen keyboard) or split screen, laptop with keyboard, landscape with keyboard, portrait with keyboard, tablet and book

Input Device

Pen**
- Lenovo Precision Pen 2 with USB cable, built-in rechargeable battery, 4096 levels of pressure sensitivity, tilt detection, supports WGP, AES 2.0 and MPP 2.0 protocols. For more information, please read Lenovo Precision Pen 2
- Lenovo Precision Pen, 4096 levels of pressure sensitivity, magnetically attached to the system. For more information, please read Lenovo Precision Pen Overview
- No pen (purchase separately)

Keyboard
- ThinkPad® Bluetooth® TrackPoint® Keyboard and Stand. Full size keyboard with LED backlight, magnetically attachable to bottom, charging via USB-C cable. Stand supports system in both portrait & landscape modes and magnetically attaches to system in portrait mode. Living hinge for angle adjustment.[1]
- No keyboard and stand

Keyboard Backlight
LED backlight on optional keyboard

UltraNav™
TrackPoint pointing device and glass surface multi-touch touchpad with 3 haptic buttons, 50 x 110 mm (1.97 x 4.33 inches)

Notes:
[1] ThinkPad Bluetooth TrackPoint Keyboard and Stand is sold as a single unit and components are not available individually.

Mechanical

Dimensions (WxDxH)[1]
Folded: 176.2 x 276.2 x 17.4 mm (6.94 x 10.87 x 0.69 inches)
Unfolded: 345.7 x 276.2 x 8.6 mm (13.61 x 10.87 x 0.34 inches)
### Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLAN models with 48Wh battery</td>
<td>X1 Fold 16: starting at 1.26 kg (2.78 lbs)</td>
</tr>
<tr>
<td></td>
<td>Keyboard and stand: around 627 g (1.38 lbs)</td>
</tr>
<tr>
<td></td>
<td>Total: around 1.887 kg (4.16 lbs)</td>
</tr>
<tr>
<td>WLAN models with 64Wh battery</td>
<td>X1 Fold 16: starting at 1.311 kg (2.89 lbs)</td>
</tr>
<tr>
<td></td>
<td>Keyboard and stand: around 627 g (1.38 lbs)</td>
</tr>
<tr>
<td></td>
<td>Total: around 1.938 kg (4.27 lbs)</td>
</tr>
<tr>
<td>WWAN models with 64Wh battery</td>
<td>X1 Fold 16: starting at 1.314 kg (2.9 lbs)</td>
</tr>
<tr>
<td></td>
<td>Keyboard and stand: around 627 g (1.38 lbs)</td>
</tr>
<tr>
<td></td>
<td>Total: around 1.941 kg (4.28 lbs)</td>
</tr>
</tbody>
</table>

Case Color
Performance black

Case Material
Aluminium + 100% recycled woven performance fabric

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**
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**
- Fibocom FM350-GL, 5G Sub-6 GHz, M.2 Card, with embedded eSIM functionality
- No support

**SIM Card**
No physical SIM card inbox

**NFC**
No support

Notes:
[1] Ethernet support via optional Lenovo USB-C to Ethernet Adapter.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4a)

**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

Various docking solutions supported via Thunderbolt or USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad X1 Fold 16 Gen 1

SECURITY & PRIVACY

Security

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

Smart Card Reader
No smart card reader

Fingerprint Reader
• Touch style fingerprint reader in keyboard key, match-on-chip
• No fingerprint reader

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

Other Security
• IR camera for Windows Hello
• Glance by Mirametrix*
• (Optional) Computer Vision-based User Presence Sensing including lock on leave
• Tile ready

MANAGEABILITY

System Management

System Management
• Intel vPro® Enterprise[^1]
• Non-vPro

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

SERVICE

Warranty[^1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.
[2] No base warranty is for special bid only.

ENVIRONMENTAL

Sustainability

Material
Recycled Performance Woven fabric cover
97% PCC recycled plastic used in speaker enclosure
97% PCC recycled plastic used in the 48Wh and 16Wh batteries
At least 90% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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 Powered USB-C Travel Hub
- Lenovo USB-C to Ethernet Adapter
- None

CERTIFICATIONS

Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) 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 is registered where applicable, please see https://www.epeat.net for registration status by country.
Mil-Spec Test
MIL-STD-810H military test passed

Other Certifications
(Optional) Intel Evo™ Platform

- Feature with ** means that only one offering listed under the feature is configured on selected models.
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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Power button
2. Headphone / microphone combo jack (3.5mm)
3. 2x Thunderbolt 4

Notes:
• Optional nano-SIM card slot on the rear side (not shown on the sample product above)
PERFORMANCE

Processor
Processor Family
12th Generation Intel® 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 i5-1240P</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 i5-1250P</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 i7-1260P</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 i7-1270P</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>

Operating System
Operating System
- Linux
- Ubuntu Linux
- Windows® 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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
Supports up to 3 independent displays (native display and 2 external monitors via Thunderbolt™)
- Thunderbolt supports up to 5K@60Hz

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

Chipset
Chipset
Intel SoC (System on Chip) platform

Memory
Max Memory
- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable
Memory Slots
Memory soldered to system board, no slots, 8-channel

Memory Type
LPDDR5-5200

Notes:
[1] 32GB memory is only for i7-1280P models.
[2] Installed memory is actually 6400MHz but runs at 5200MHz due to processor limitation.

Storage
Storage Support
One drive, up to 1TB M.2 2242 SSD

Storage Slot
One M.2 2242 PCIe® 4.0 x4 slot

Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
<th>Security</th>
</tr>
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<td>M.2 2242 SSD</td>
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<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.

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 1W 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

Notes:
[1] FHD 1080p camera and FHD 1080p + IR discrete camera are only available on non-touch models. FHD 1080p + IR hybrid camera is only available on touch models.

Battery
Battery
Integrated Li-Polymer 49.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Battery Life
Configuration 1 (max battery life)
- MobileMark® 2018: up to 11.0 hr with 871 performance score @200nits
- MobileMark 25: up to 10.3 hr with 806 performance score @250nits
- JEITA 2.0: up to 18.2 hr @150nits
- Local video playback: up to 16.2 hr @150nits

Alternate configuration 2
- MobileMark 2018: up to 10.4 hr with 888 performance score @200nits
- MobileMark 25: up to 9.8 hr with 796 performance score @250nits
- JEITA 2.0: up to 17.9 hr @150nits
Local video playback: up to 15.6 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 10.1 hr with 845 performance score @200nits
MobileMark 25: up to 9.6 hr with 838 performance score @250nits
JEITA 2.0: up to 17.0 hr @150nits
Local video playback: up to 15.4 hr @150nits

Notes:
[1] Configuration 1 (max battery life): 2K (non-touch), Intel i5-1240P, 16GB LPDDR5, Win 11, 49.5Wh battery, best power efficiency power mode
Alternate configuration 2: 2K (non-touch), Intel i5-1250P, 16GB LPDDR5, Win 11, 49.5Wh battery, best power efficiency power mode
Alternate configuration 3: 2K (non-touch), Intel i7-1280P, 32GB LPDDR5, Win 11, 49.5Wh 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**[2]
- 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

Display**[1]

<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&quot;</td>
<td>2K (2160x1350)</td>
<td>None</td>
<td>IPS</td>
<td>450nits</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</td>
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<td>13&quot;</td>
<td>2K (2160x1350)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>450nits</td>
<td>Anti-glare, anti-reflection, anti-smudge</td>
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<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>Low power</td>
</tr>
</tbody>
</table>

Touchscreen

- Add-on Film Touch, supports 10-point touch[2]
- Non-touch

Notes:
[1] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.
[2] Multi-touch display is only for black weave models.

Input Device

Keyboard
6-row, spill-resistant, 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**

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<tr>
<th>Dimensions (WxDxH)</th>
<th>Models</th>
<th>Dimensions</th>
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<td>293.2 x 208.0 x 14.4 mm (11.54 x 8.19 x 0.57 inches)</td>
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<td>Touch models</td>
<td>293.3 x 208.1 x 14.8 mm (11.55 x 8.19 x 0.58 inches)</td>
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**Weight**

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<td>Non-touch models</td>
<td>Starting at 966.5 g (2.13 lbs)</td>
</tr>
<tr>
<td>Touch models</td>
<td>Starting at 991.5 g (2.19 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**

- Deep black, paint
- Deep black, weave

**Case Material**

Carbon fiber (top), magnesium alloy (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®[^2]**

Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[^3]

**WWAN**[^2]

- Wireless WAN upgradable to 4G or 5G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, MIMO 4x4, M.2 card
- Qualcomm® Snapdragon™ X55 5G Modem-RF System, Sub-6 GHz, M.2 card, with embedded eSIM functionality
- No support

**SIM Card**

- Gemalto eSIM card (physical)
- No physical SIM card inbox

**NFC**

No support

Notes:

[^1]: Ethernet support via optional Lenovo USB-C to Ethernet Adapter.
[^2]: Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[^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[^1]**

**Standard Ports**

- 1x Headphone / microphone combo jack (3.5mm)
2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)

Optional Ports

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

Various docking solutions supported via Thunderbolt / USB-C. For more compatible docking solutions, please visit Docking for ThinkPad® X1 Nano Gen 2

Monitor Cable

Monitor Cable***

- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to HDMI® Adapter
- No monitor cable

SECURITY & PRIVACY

Security

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

Smart Card Reader
No smart card reader

Fingerprint Reader
Touch style fingerprint reader on palm rest, match-on-chip

BIOS Security

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

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- Glance by Mirametrix®
- (Optional) Computer Vision-based User Presence Sensing including lock on leave
- Tile ready

MANAGEABILITY

System Management

System Management

- Intel vPro® Enterprise(1)
- Non-vPro

Notes:
[1] 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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/). To learn more details of warranty policy, please access [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty).

**ENVIRONMENTAL**

**Sustainability**

**Material**

- 97% PCC recycled plastic used in the 49.5Wh battery
- 30% PCC recycled plastic used in speaker enclosure
- Low-temperature solder
- 90% recycled and/or sustainable packaging

**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)

**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
- Lenovo USB-C Port Replicator
- None

**CERTIFICATIONS**

**Green Certifications**

**Green Certifications**

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered

[1] [https://smartfind.lenovo.com/](https://smartfind.lenovo.com/)
[2] [https://pcsupport.lenovo.com/warranty](https://pcsupport.lenovo.com/warranty)
• 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.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

**Other Certifications**

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

**Other Certifications**
(Optional) Intel Evo™ Platform

- 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Power button</td>
</tr>
<tr>
<td>2.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>3.</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>4.</td>
<td>Thunderbolt 4</td>
</tr>
</tbody>
</table>

Notes:
• Optional nano-SIM card slot on the rear side (not shown on the sample product above)
PERFORMANCE

Processor

Processor Family
13th Generation Intel® P Series Core™ i5 / i7 Processor

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 i5-1340P</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 i5-1350P</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 i7-1360P</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 i7-1370P</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>

Operating System

Operating System**

• Windows® 10 IoT Enterprise LTSC 2021
• Windows 11 Home
• Windows 11 Home Single Language
• Windows 11 Pro
• No operating system

Graphics

Graphics

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<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†

Supports up to 3 independent displays (native display and 2 external monitors via Thunderbolt™)

• Thunderbolt supports up to 5K@60Hz

Notes:

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

Chipset

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory
16GB soldered memory, not upgradable

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

Memory Type
LPDDR5x-6400†

Notes:

[†] Installed memory is actually 7500MHz but run at 6400MHz due to platform limitation.

Storage
Storage Support
One drive, up to 1TB M.2 2242 SSD

Storage Slot
One M.2 2242 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 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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.

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 1W 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

Battery

Battery
Integrated Li-Polymer 49.5Wh 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 11.13 hr with 632 performance score @250nits
JEITA 2.0: up to 19.67 hr @150nits
Local video playback: up to 17.83 hr @150nits

Alternate configuration 2
MobileMark 25: up to 10.58 hr with 653 performance score @250nits
JEITA 2.0: up to 19.03 hr @150nits
Local video playback: up to 17.44 hr @150nits

Alternate configuration 3
MobileMark 25: up to 10.28 hr with 651 performance score @250nits
JEITA 2.0: up to 18.92 hr @150nits
Local video playback: up to 17.13 hr @150nits

Notes:
[1] Configuration 1 (max battery life): 2K (non-touch), Intel i5-1340P, 16GB LPDDR5x, Win 11, 49.5Wh battery, best power efficiency power mode
Alternate configuration 2: 2K (touch), Intel i5-1350P, 16GB LPDDR5x, Win 11, 49.5Wh battery, best power efficiency power mode
Alternate configuration 3: 2K (touch), Intel i7-1370P, 16GB LPDDR5x, Win 11, 49.5Wh battery, best power efficiency power mode

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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**[3]**

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<td>IPS</td>
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**Touchscreen**

- Add-on Film 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

**UltraNav™**

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

**Mechanical**

**Dimensions (WxDxH)**

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**Weight**

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Case Material
Carbon fiber (top), magnesium alloy (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
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

WWAN
- Wireless WAN upgradable to 4G (with antenna ready)
- No support

SIM Card
No physical SIM card inbox

NFC
No support

Notes:
[1] Ethernet support via optional Lenovo USB-C to Ethernet Adapter.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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 Headphone / microphone combo jack (3.5mm)
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)

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 Nano Gen 3
Monitor Cable

- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to HDMI® Adapter
- No monitor cable

SECURITY & PRIVACY

Security

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

Smart Card Reader
No smart card reader

Fingerprint Reader
Touch style fingerprint reader on palm rest, match-on-chip

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

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

MANAGEABILITY

System Management

System Management
- Intel vPro® Enterprise[1]
- Non-vPro

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

SERVICE

Warranty[1]

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL
Sustainability

Material
- 90% recycled magnesium on keyboard cover and bottom cover
- 90% PCC recycled plastic used in speaker enclosure
- 90% PCC recycled plastic used in the 49.5Wh 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
- 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)

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
- Lenovo USB-C Port Replicator
- None

CERTIFICATIONS

Green Certifications

Green Certifications
- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
(Optional) Intel Evo™ Platform
Feature with *** means that one or more offerings listed under the feature could be configured on selected models.

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OVERVIEW

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

Notes:
- Optional nano-SIM card slot on the right side (not shown on the sample product above)
PERFORMANCE

Processor

Processor Family
12th Generation Intel® 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>
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Notes:
[1] NOT available in EMEA.

Operating System

Operating System**

- Linux
- Ubuntu Linux
- Windows® 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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

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<td>Shared</td>
<td>Share CPU TDP</td>
<td>DirectX® 12.1</td>
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Monitor Support

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
ThinkPad X1 Yoga Gen 7

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

**Chipset**

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 system board, no slots, 8-channel

Memory Type
LPDDR5-5200

Notes:
[1] 8GB memory is NOT available in EMEA.
[2] Installed memory is actually 6400MHz but run at 5200MHz due to processor 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>
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<tbody>
<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>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4[2]</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] 512GB and 1TB M.2 2280 PCIe 4x4 SSD are NOT available 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® 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

Sensor
Sensors

- Accelerometer (G) sensor
- Proximity (P) sensor

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® 2018: up to 14.9 hr with 848 performance score @250nits
- JEITA 2.0: up to 24.5 hr @150nits
- Local video playback: up to 19.7 hr @150nits

**Alternate configuration 2**
- MobileMark 2018: up to 14.2 hr with 820 performance score @200nits
- MobileMark 25: up to 11.3 hr with 608 performance score @250nits
- JEITA 2.0: up to 24.1 hr @150nits
- Local video playback: up to 19.7 hr @150nits

**Alternate configuration 3**
- MobileMark 2018: up to 14.0 hr with 810 performance score @200nits
- MobileMark 25: up to 11.0 hr with 614 performance score @250nits
- JEITA 2.0: up to 21.8 hr @150nits
- Local video playback: up to 19.3 hr @150nits

Notes:

[^1]: Configuration 1 (max battery life): WUXGA (touch), Intel i5-1235U, 8GB LPDDR5, Win 11, 57Wh battery, best power efficiency power mode

Alternate configuration 2: WUXGA (touch), Intel i5-1240P, 16GB LPDDR5, Win 11, 57Wh battery, best power efficiency power mode

Alternate configuration 3: WUXGA (touch), Intel i7-1260P, 16GB LPDDR5, Win 11, 57Wh 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][^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

Notes:

[^1]: AC adapter offerings depend on the country.
[^2]: In EMEA only 65W USB-C slim AC adapters are available.

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</th>
<th>Contrast</th>
<th>Color</th>
<th>Viewing Angle</th>
<th>Key Features</th>
</tr>
</thead>
</table>

ThinkPad X1 Yoga Gen 7 - July 19 2023
<table>
<thead>
<tr>
<th>Model</th>
<th>Display Size</th>
<th>Resolution</th>
<th>Touch Technology</th>
<th>Brightness</th>
<th>Anti-glare/Smudge</th>
<th>Color Gamut</th>
<th>Contrast Ratio</th>
<th>View Angle</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>14&quot; WUXGA</td>
<td>14&quot;</td>
<td>1920x1200</td>
<td>Multi-touch</td>
<td>400nits</td>
<td>Anti-reflection</td>
<td>100% sRGB</td>
<td>16:10</td>
<td>1000:1</td>
<td>Low power, Eyesafe Certified</td>
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<td>14&quot; WUXGA</td>
<td>14&quot;</td>
<td>1920x1200</td>
<td>Multi-touch</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>100% sRGB</td>
<td>16:10</td>
<td>1000:1</td>
<td>ThinkPad Privacy Guard</td>
</tr>
<tr>
<td>14&quot; WUXGA</td>
<td>14&quot;</td>
<td>3840x2400</td>
<td>Multi-touch</td>
<td>500nits</td>
<td>Anti-reflection</td>
<td>100% DCI-P3</td>
<td>16:10</td>
<td>100000:1</td>
<td>Low power, DisplayHDR 400, Dolby Vision, Eyesafe Certified</td>
</tr>
</tbody>
</table>

**Touchscreen**
OGS (One Glass Solution) multi-touch, supports 10-point touch

**Notes:**
[1], [2], [3] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

**Multi-mode**
Multi-mode
Laptop, tent, stand, and tablet modes supported by 360° hinge

**Input Device**
**Pen**
Lenovo Integrated Pen, with built-in rechargeable battery, 4096 levels of pressure sensitivity, on-board garaged and rechargeable

**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)**
314.4 x 222.3 x 15.53 mm (12.38 x 8.75 x 0.61 inches)

**Weight**
Starting at 1.38 kg (3.04 lbs)

**Case Color**
Storm grey

**Case Material**
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®*[2]
- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[3]
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[4]

WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, MIMO 4x4, 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 5.2 is hardware ready but may run at a lower version due to OS limitations.
[3] Wi-Fi 6 full features might be limited by country-level restrictions.
[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[1]

Standard Ports
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

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 Yoga® Gen 7

Monitor Cable

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

SECURITY & PRIVACY
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

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

MANAGEABILITY

System Management

System Management
• Intel vPro® Enterprise
• Non-vPro

Notes:
[1] 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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

Material
95% PCC recycled plastic used in speaker enclosure
25-30% PCC recycled plastic used in the 57Wh battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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

Lenovo USB-C to Ethernet Adapter
None

CERTIFICATIONS

Green Certifications

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

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Other Certifications

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

- (Optional) Eyesafe Certified
- (Optional) Intel Evo™ Platform
- 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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## OVERVIEW

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

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

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Processor Family
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Notes:
[1] Intel Core i5-1340P, i5-1350P and i7-1360p are for special bid only.

Operating System

Operating System [2]
- Linux[1]
- Ubuntu Linux[2]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:
[1], [2] 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.

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

Chipset
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
One drive, up to 2TB M.2 2280 SSD

Storage Slot
One M.2 2280 PCIe® 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

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 13.7 hr with 667 performance score @250nits
JEITA 2.0: up to 27.7 hr @150nits
Local video playback: up to 22.4 hr @150nits

Alternate configuration 2
MobileMark 25: up to 13.05 hr with 637 performance score @250nits
JEITA 2.0: up to 24.7 hr @150nits
Local video playback: up to 20.1 hr @150nits

Alternate configuration 3
MobileMark 25: up to 13.4 hr with 659 performance score @250nits
JEITA 2.0: up to 24.2 hr @150nits
Local video playback: up to 19.5 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (touch), Intel i5-1345U, 16GB LPDDR5x, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), Intel i5-1340P, 16GB LPDDR5x, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (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 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

Notes:

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&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-</td>
<td>IPS[1]</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</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&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-</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>
<tr>
<td>14&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>Multi-</td>
<td>IPS[3]</td>
<td>500nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>85°/85°/85°/85°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>14&quot;</td>
<td>WQXGA (3840x2400)</td>
<td>Multi-</td>
<td>OLED</td>
<td>500nits</td>
<td>Anti-reflection,</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>85°/85°/85°/85°</td>
<td>DisplayHDR™ 400, Dolby</td>
</tr>
</tbody>
</table>

ThinkPad X1 Yoga Gen 8 - July 19 2023
Touchscreen
OGS (One Glass Solution) multi-touch, supports 10-point touch

Notes:
[1], [2], [3] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Multi-mode
Multi-mode
Laptop, tent, stand, and tablet modes supported by 360° hinge

Input Device
Pen
Lenovo Integrated Pen, with built-in rechargeable battery, 4096 levels of pressure sensitivity, on-board garaged and rechargeable

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)[2]
314.4 x 222.3 x 15.53 mm (12.38 x 8.75 x 0.61 inches)

Weight[2]
Starting at 1.38 kg (3.04 lbs)

Case Color
Storm grey

Case Material
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[9]

WLAN + Bluetooth®[2]
Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1[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] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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 HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 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)

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 Yoga® Gen 8

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

**Other Security**
- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (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**(1)

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

Notes:
[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

**ENVIRONMENTAL**

**Sustainability**

Material
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)

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
• None

CERTIFICATIONS

Green Certifications[1]

Green Certifications
• (Optional) ENERGY STAR® 8.0
• (Optional) EPEAT™ Gold Registered[2]
• 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
• (Optional) Eyesafe Certified 2.0
• (Optional) Intel Evo™ Platform
• 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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• The specifications on this page may not be available in all regions, and may be changed or updated without notice.
OVERVIEW

1. Headphone / microphone combo jack (3.5mm)  3. USB4
2. Power button  4. USB4

Notes:
• Optional nano-SIM card slot on the right side (not shown on the sample product above)
PERFORMANCE

Processor

Processor Family
AMD Ryzen™ 5 / 7 Processor

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 Graphics</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 Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 6860Z</td>
<td>8</td>
<td>16</td>
<td>2.7GHz</td>
<td>4.75GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon 680M Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**

- Fedora Linux[1]
- Linux[2]
- Ubuntu Linux[3]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No 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>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 3 independent displays (native display and 2 external monitors via USB4®)

- USB4 supports up to 8K@30Hz[1]

Notes:
[1] 8K resolution support needs 2 display pipes. That is, simultaneous display number will “-1” when 8K resolution displayed.

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 system board, no slots, dual-channel
Memory Type
LPDDR5-6400

Storage
Storage Support
One drive, up to 1TB M.2 2242 SSD

Storage Slot
One M.2 2242 PCIe® 4.0 x4 slot

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe®, PCIe 4.0 x4</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.

Removable Storage
Card Reader
No card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers
Stereo speakers, 2W x2, Dolby® Atmos®

Microphone
Dual-microphone array, 360° far-field, Dolby Voice

Camera **
- FHD 1080p + IR discrete, with E-shutter, fixed focus
- FHD 1080p + IR hybrid, with E-shutter, fixed focus

Battery
Battery
Integrated Li-Polymer 51.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Battery Life[1]
Configuration 1 (max battery life)
MobileMark® 2018: up to 18.33 hr with 666 performance score @200nits
MobileMark 25: up to 16.66 hr with 759 performance score @250nits
JEITA 2.0: up to 22.8 hr @150nits
Local video playback: up to 22.8 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 17.93 hr with 651 performance score @200nits
MobileMark 25: up to 14.3 hr with 785 performance score @250nits
JEITA 2.0: up to 22.1 hr @150nits
Local video playback: up to 21.35 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 7.81 hr with 635 performance score @200nits
MobileMark 25: up to 7.4 hr with 794 performance score @250nits
JEITA 2.0: up to 11.71 hr @150nits
Local video playback: up to 13.55 hr @150nits

Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), AMD Ryzen 7 PRO 6850U, 16GB LPDDR5, Win 11, 51.5Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (non-touch), AMD Ryzen 5 PRO 6650U, 16GB LPDDR5, Win 11, 51.5Wh battery, best...
power efficiency power mode
Alternate configuration 3: 2.8K OLED (touch), AMD Ryzen 5 PRO 6650U, 32GB LPDDR5, Win 11, 51.5Wh 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]
- 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>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89°/89°/89°/89°</td>
<td>Low power, TÜV Low Blue Light, 91.6% screen to body ratio</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>On-cell touch</td>
<td>IPS[2]</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89°/89°/89°/89°</td>
<td>Low power, TÜV Low Blue Light, 91.6% screen to body ratio</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>2.8K (2880x1800)</td>
<td>OGS touch</td>
<td>OLED</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>100000:1</td>
<td>100% DCI-P3</td>
<td>60Hz</td>
<td>87.5° / 87.5° / 87.5°</td>
<td>91.6% screen to body ratio, DisplayHDR™ 400, Dolby Vision™, TÜV Low Blue Light</td>
</tr>
</tbody>
</table>

Touchscreen**

- OGS (One Glass Solution) multi-touch, supports 10-point touch
- On-cell multi-touch, supports 10-point touch
- Non-touch

Notes:
[1], [2] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device

Pen
No pen (purchase separately)
No support (non-touch display doesn’t support pen input)

**Keyboard**
6-row, spill-resistant, edge-to-edge, multimedia Fn keys with Unified Communications controls

**Keyboard Backlight**
LED backlight

**UltraNav™**
TrackPoint® pointing device and glass surface multi-touch Haptic ForcePad, 70.9 x 120 mm (2.79 x 4.72 inches)

**Mechanical**

**Dimensions (WxDxH)**
294.4 x 199.6 x 13.99 mm (11.59 x 7.86 x 0.55 inches)

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-touch models</td>
<td>Starting at 1.19 kg (2.63 lbs)</td>
</tr>
<tr>
<td>Touch models</td>
<td>Starting at 1.26 kg (2.78 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
- Arctic grey (top), black (bottom)
- Black (top), black (bottom)
- Bronze with black vegan leather (top), black (bottom)

**Case Material**
- Vegan leather + aluminium (top), aluminium (bottom)
- 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.
[3] Black top cover is NOT available in NA and EMEA.

**CONNECTIVITY**

**Network**

**Ethernet**
No onboard Ethernet

**WLAN + Bluetooth®**
Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- No support

**SIM Card**
- Gemalto eSIM card (physical)
- No physical SIM card inbox

**NFC**
No support

Notes:
[1] Ethernet support via optional Lenovo USB-C to Ethernet Adapter.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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 Headphone / microphone combo jack (3.5mm)
- 2x USB4 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)

**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 USB-C.
For more compatible docking solutions, please visit [Docking for ThinkPad® Z13 Gen 1](#)

**Monitor Cable**

Monitor Cable
- Lenovo USB-C to HDMI® Adapter
- No monitor cable

**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

**Smart Card Reader**
No smart card reader

**Fingerprint Reader**
Touch style fingerprint reader in keyboard key, 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**
- IR camera for Windows Hello
- E-shutter
- Glance by Mirametrix®

**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[2]

Notes:

[1] The warranty upgrades may be bundled with some models, please check the “Included upgrade” column in the specific model’s configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

[2] No base warranty is for special bid only.

ENVIRONMENTAL

Sustainability

Material
75% post-consumer recycled aluminium
97% PCC recycled plastic used in speaker enclosure
97% PCC recycled plastic used in the 50Wh battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

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)

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
- Lenovo USB-C to USB-A Adapter
- None

CERTIFICATIONS

Green Certifications[1]
Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered\(^2\)
- 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.
[2] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

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

Other Certifications
TÜV Rheinland® Low Blue Light

- 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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### OVERVIEW

<table>
<thead>
<tr>
<th>1. Power button</th>
<th>5. USB4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Headphone / microphone combo jack (3.5mm)</td>
<td>6. USB4</td>
</tr>
<tr>
<td>3. USB-C 3.2 Gen 2</td>
<td>7. SD card reader</td>
</tr>
<tr>
<td>4. Kensington Nano Security Slot</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Optional nano-SIM card slot on the right side (not shown on the sample product above)
PERFORMANCE

Processor

**Processor Family**
AMD Ryzen™ 5 / 7 / 9 Processor

**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 6650H</td>
<td>6</td>
<td>12</td>
<td>3.3GHz</td>
<td>4.5GHz</td>
<td>3MB L2 / 16MB L3</td>
<td>AMD Radeon™ 660M Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 7 PRO 6850H</td>
<td>8</td>
<td>16</td>
<td>3.2GHz</td>
<td>4.7GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon 680M Graphics</td>
</tr>
<tr>
<td>AMD Ryzen 9 PRO 6950H</td>
<td>8</td>
<td>16</td>
<td>3.3GHz</td>
<td>4.9GHz</td>
<td>4MB L2 / 16MB L3</td>
<td>AMD Radeon 680M Graphics</td>
</tr>
</tbody>
</table>

**Operating System**

**Operating System**
- Fedora Linux[1]
- Linux[2]
- Ubuntu Linux[3]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No 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>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>
<tr>
<td>AMD Radeon RX 6500M</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>DirectX 12 Ultimate</td>
</tr>
</tbody>
</table>

Monitor Support

**Monitor Support**

Supports up to 4 independent displays (native display and 3 external monitors via USB4® or USB-C®)
- USB-C supports up to 4K@60Hz (4 displays output), 5K@60Hz (3 displays output) or 5K@120Hz (up to 2 displays output)
- USB4 supports up to 8K@30Hz[1]

Notes:
[1] 8K resolution support needs 2 display pipes. That is, simultaneous display number will “-1” when 8K resolution displayed.

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
LPDDR5-6400

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 Performance</td>
<td>512GB / 1TB / 2TB</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4[2]</td>
<td>256GB</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] PCIe x4 may be PCIe 3.0x4 or PCIe 4.0x4 as substitution.

Removable Storage
Card Reader
SD card reader, supports UHS-II SD card

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers
Stereo speakers, 2W x2, Dolby® Atmos®

Microphone
Dual-microphone array, 360° far-field, Dolby Voice

Camera

- FHD 1080p + IR discrete, with E-shutter, fixed focus
- FHD 1080p + IR hybrid, with E-shutter, fixed focus

Battery

Battery
Integrated Li-Polymer 72Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Battery Life[1]
Configuration 1 (max battery life)
MobileMark® 2018: up to 20.5 hr with 657 performance score @200nits
MobileMark 25: up to 20.0 hr with 624 performance score @250nits
JEITA 2.0: up to 25.9 hr @150nits
Local video playback: up to 28.2 hr @150nits

Alternate configuration 2
MobileMark 2018: up to 19.4 hr with 635 performance score @200nits
MobileMark 25: up to 19.0 hr with 524 performance score @250nits
JEITA 2.0: up to 25.6 hr @150nits
Local video playback: up to 24.6 hr @150nits

Alternate configuration 3
MobileMark 2018: up to 9.4 hr with 619 performance score @200nits
MobileMark 25: up to 6.9 hr with 485 performance score @250nits
JEITA 2.0: up to 9.1 hr @150nits
Local video playback: up to 13.6 hr @150nits
Notes:
[1] Configuration 1 (max battery life): WUXGA (non-touch), AMD Ryzen 7 PRO 6850H, 16GB LPDDR5, Win 11, 72Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), AMD Ryzen 7 PRO 6850H, 16GB LPDDR5, Win 11, 72Wh battery, best power efficiency power mode
Alternate configuration 3: WQUXGA OLED (touch), AMD Ryzen 5 PRO 6650H, 16GB LPDDR5, Win 11, 72Wh 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**
135W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

Notes:

**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>Refresh Rate</th>
<th>Viewing Angle (L/R/U/D)</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89°/89°/80°/80°</td>
<td>Low power, TÜV Low Blue Light, 92.3% screen to body ratio</td>
</tr>
<tr>
<td>16”</td>
<td>WUXGA (1920x1200)</td>
<td>On-cell touch</td>
<td>IPS</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>60Hz</td>
<td>89°/89°/80°/80°</td>
<td>Low power, TÜV Low Blue Light, 92.3% screen to body ratio</td>
</tr>
<tr>
<td>16”</td>
<td>WQUXGA (3840x2400)</td>
<td>OGS</td>
<td>LCD</td>
<td>400nits</td>
<td>Anti-reflection, anti-smudge</td>
<td>16:10</td>
<td>1000:1</td>
<td>DCI-P3</td>
<td>60Hz</td>
<td>87.5° / 87.5° / 87.5°</td>
<td>92.3% screen to body ratio, DisplayHDR™ 400, Dolby Vision™, TÜV Low Blue Light</td>
</tr>
</tbody>
</table>

**Touchscreen**

- OGS (One Glass Solution) multi-touch, supports 10-point touch
- On-cell multi-touch, supports 10-point touch
- Non-touch

Notes:
[1], [2] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

**Input Device**

**Pen**
• No pen (purchase separately)
• No support (non-touch display doesn’t support pen input)

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

**Keyboard Backlight**
LED backlight

**UltraNav™**
TrackPoint® pointing device and glass surface multi-touch Haptic ForcePad, 80 x 120 mm (3.15 x 4.72 inches)

**Mechanical**

**Dimensions (WxDxH)**
354.4 x 237.4 x 15.8 mm (13.95 x 9.35 x 0.62 inches)

**Weight**

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLED models</td>
<td>Starting at 1.81 kg (3.99 lbs)</td>
</tr>
<tr>
<td>WUXGA non-touch models</td>
<td>Starting at 1.83 kg (4.04 lbs)</td>
</tr>
<tr>
<td>WUXGA multi-touch models</td>
<td>Starting at 1.94 kg (4.28 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
Arctic grey (top), black (bottom)

**Case Material**
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®**
Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**
• Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
• Quectel EM05-G, 4G LTE CAT4, M.2 card
• No support

**SIM Card**
• Gemalto eSIM card (physical)
• No physical SIM card inbox

**NFC**
No support

Notes:
[1] Ethernet support via optional Lenovo USB-C to Ethernet Adapter.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.
[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 Headphone / microphone combo jack (3.5mm)
- 1x SD card reader
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
- 2x USB4 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4a)

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 USB-C.
For more compatible docking solutions, please visit Docking for ThinkPad® Z16 Gen 1

Monitor Cable

Monitor Cable
- Lenovo USB-C to HDMI® Adapter
- No monitor cable

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
No smart card reader

Fingerprint Reader
Touch style fingerprint reader in keyboard key, match-on-chip

BIOS Security
- Power-on password
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- Certificate based BIOS authentication
- Self-healing BIOS

Other Security
- IR camera for Windows Hello
- E-shutter
- Glance by Mirametrix®

MANAGEABILITY
System Management

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

Notes:

- The warranty upgrades may be bundled with some models, please check the "included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Sustainability

- Material
  - 75% post-consumer recycled aluminium
  - 97% PCC recycled plastic used in speaker enclosure
  - 97% PCC recycled plastic used in the 70Wh battery
  - Low-temperature solder
  - 90% recycled and/or sustainable packaging

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)

- 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).

ACCESSORIES

Bundled Accessories

- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C to USB-A Adapter
- None

CERTIFICATIONS
Green Certifications

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

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