## OVERVIEW

| 1. Thunderbolt 4                  | 7. microSD card reader  |
| 2. Thunderbolt 4                  | 8. Smart card reader *  |
| 3. Side docking connector *       | 9. USB 3.2 Gen 1 (Always On) |
| 4. USB 3.2 Gen 1                  | 10. Ethernet (RJ-45) *   |
| 5. HDMI 2.0                       | 11. Kensington Security Slot |
| 6. 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)
- The combination of 2 and 3 is side docking connector
PERFORMANCE

Processor

Processor Family
11th 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 i5-1135G7</td>
<td>4</td>
<td>8</td>
<td>2.4GHz</td>
<td>4.2GHz</td>
<td>8MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i5-1145G7</td>
<td>4</td>
<td>8</td>
<td>2.6GHz</td>
<td>4.4GHz</td>
<td>8MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i7-1165G7</td>
<td>4</td>
<td>8</td>
<td>2.8GHz</td>
<td>4.7GHz</td>
<td>12MB</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i7-1185G7</td>
<td>4</td>
<td>8</td>
<td>3.0GHz</td>
<td>4.8GHz</td>
<td>12MB</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

- Windows® 11 Pro
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 DG Windows 10 Pro 64
- Windows 10 Pro 64
- Windows 10 Home 64
- Windows 10 Home 64 Single Language
- Windows 10 IoT Enterprise LTSC
- Linux[1]
- Ubuntu Linux[2]
- 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 MX450</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.

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. The system may support more memory as the technology develops.

**Storage**

**Storage Support**
One drive, up to 256GB M.2 2242 SSD or 2TB M.2 2280 SSD

**Storage Slot**
One M.2 2280 PCIe® 3.0 x4 slot

**Storage Type**

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe x4</td>
<td>Opal 2.0</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4 Performance</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. The system may support larger storage as the technology develops.
[2] PCIe x4 SSD may be PCIe 3.0 x4 or PCIe 4.0 x4 as substitution.
[3] The SSD with PCIe 4.0x4 performance is downgraded to closer to PCIe 3.0x4 performance due to the system slot limitation.

**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
- No microphone[3]

**Camera**
- HD 720p, with privacy shutter, fixed focus
- HD 720p + IR hybrid, with privacy shutter, fixed focus
- No camera

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

**Battery**
Battery
Integrated Li-Polymer 50Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

Max Battery Life
MobileMark® 2018: 10.7 hr
JEITA 2.0: 14.5 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**[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[3]

Notes:
[2] 45W USB-C AC adapter is only available for the models with integrated graphics. In EMEA only 65W USB-C AC adapter is available.
[3] No power adapter is for special bid only.

DESIGN

Display

Display**[1][2]

<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>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>250 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>700:1</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>400 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>800:1</td>
<td>72% NTSC</td>
<td>85°/85°/85°/85°</td>
<td>Low power</td>
</tr>
<tr>
<td>14&quot;</td>
<td>FHD (1920x1080)</td>
<td>None</td>
<td>IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>700:1</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>300 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>700:1</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>500 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1000:1</td>
<td>72% NTSC</td>
<td>89°/89°/89°/89°</td>
<td>ThinkPad® Privacy Guard</td>
</tr>
<tr>
<td>14&quot;</td>
<td>UHD (3840x2160)</td>
<td>None</td>
<td>IPS</td>
<td>500 nits</td>
<td>Anti-glare</td>
<td>16:9</td>
<td>1500:1</td>
<td>100% Adobe® RGB</td>
<td>89°/89°/89°/89°</td>
<td>Dolby Vision™, DisplayHDR™ 400</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
- Non-touch

Notes:
California Electronic Waste Recycling Fee
In California USA, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, please go to https://www.calrecycle.ca.gov/Electronics/Consumer.

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

250 nits display is ONLY available in Brazil.

**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

**Mechanical**

**Dimensions (WxDxH)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium models</td>
<td>329.4 x 227.5 x 17.9 mm (12.97 x 8.96 x 0.70 inches)</td>
</tr>
<tr>
<td>PPS models</td>
<td>329 x 227 x 17.9 mm (12.95 x 8.94 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 PPS top cover and FHD Low Power display</td>
<td>Starting at 1.47 kg (3.23 lbs)</td>
</tr>
<tr>
<td>Models with aluminium top cover and FHD non-touch display</td>
<td>Starting at 1.502 kg (3.31 lbs)</td>
</tr>
<tr>
<td>Models with PPS top cover and FHD non-touch display</td>
<td>Starting at 1.53 kg (3.37 lbs)</td>
</tr>
<tr>
<td>Models with aluminium top cover and FHD Privacy Guard display</td>
<td>Starting at 1.55 kg (3.42 lbs)</td>
</tr>
<tr>
<td>Models with PPS top cover and FHD Privacy Guard display</td>
<td>Starting at 1.58 kg (3.49 lbs)</td>
</tr>
<tr>
<td>Models with aluminium top cover and FHD touch display</td>
<td>Starting at 1.502 kg (3.31 lbs)</td>
</tr>
<tr>
<td>Models with PPS top cover and FHD touch display</td>
<td>Starting at 1.53 kg (3.37 lbs)</td>
</tr>
<tr>
<td>Models with PPS top cover and UHD display</td>
<td>Starting at 1.47 kg (3.24 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**
- Black
- Storm grey

**Surface Treatment**
- ISO 22196 compliant anti-microbial surface treatment (not including keyboard, display, and display bezel)
- Not anti-microbial surface treatment

**Case Material**
- PPS / 50% GF (top), PC-ABS / Talc15 + magnesium alloy (keyboard cover), PA / 50% GF (bottom)
- Aluminium (top), PC-ABS / Talc15 + magnesium alloy (keyboard cover), PA / 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.
3. Storm grey case is NOT available in EMEA.
4. Anti-microbial surface treatment is NOT available for aluminium models.

**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
- No onboard Ethernet

**WLAN + Bluetooth**
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Intel Wi-Fi 6E AX210, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

**WWAN**
- Wireless WAN upgradable to 4G (with antenna ready)
- Quectel EM120R-GL, 4G LTE CAT12, M.2 card
- Quectel EM120R-GL, 4G LTE CAT12, M.2 card, with embedded eSIM functionality
- Quectel EM160R, 4G LTE CAT16, MIMO 4x4, M.2 card, with embedded eSIM functionality
- No support

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

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

Notes:
[1] It is recommended to use the Lenovo USB-C to Ethernet Adapter for Ethernet connection.
[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] WWAN is NOT available for aluminium models.
[6] NFC is NOT available for aluminium models, and is mutually exclusive with FIPS 201 fingerprint reader and RFID reader.

**Ports**

**Standard Ports**
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
- 1x HDMI 2.0
- 1x microSD card reader
- 1x Headphone / microphone combo jack (3.5mm)

**Optional Ports**
- 1x Ethernet (RJ-45)
- 1x Side docking connector
- 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] Smart card reader is NOT available with FIPS 201 fingerprint reader and anti-microbial covers.
Docking
Various docking solutions supported via side docking connector (optional) or Thunderbolt / USB-C. For more compatible docking solutions, please visit Docking for ThinkPad T14 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
Physical Locks
Kensington™ Security Slot™, 3 x 7 mm
Smart Card Reader
• Smart card reader
• No smart card reader
Fingerprint Reader**
• FIPS 201 fingerprint reader on palm rest[1]
• Touch style fingerprint reader on palm rest, match-on-chip[2]
• No fingerprint reader[3]
BIOS Security
• Power-on password
• Supervisor password
• NVMe password
• Self-healing BIOS
Other Security
• (Optional) Camera privacy shutter
• (Optional) IR camera for Windows Hello
• (Optional) Privacy Guard with Privacy Alert
• (Optional) RFID reader[4]

Notes:
[1] FIPS 201 fingerprint reader is ONLY available for the models with anti-microbial black covers and is mutually exclusive with NFC.
[3] No fingerprint reader is ONLY available for the models with black cover.
[4] RFID reader is ONLY available with FIPS 201 fingerprint reader and anti-microbial covers, and NOT available on Aluminium models.

MANAGEABILITY

System Management
System Management
• Intel vPro[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/. To learn more details of warranty policy, please access https://pcsupport.lenovo.com/warranty.
[2] No base warranty is for special bid only.

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
- EPEAT™ Gold Registered
- ENERGY STAR® 8.0
- 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

- 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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