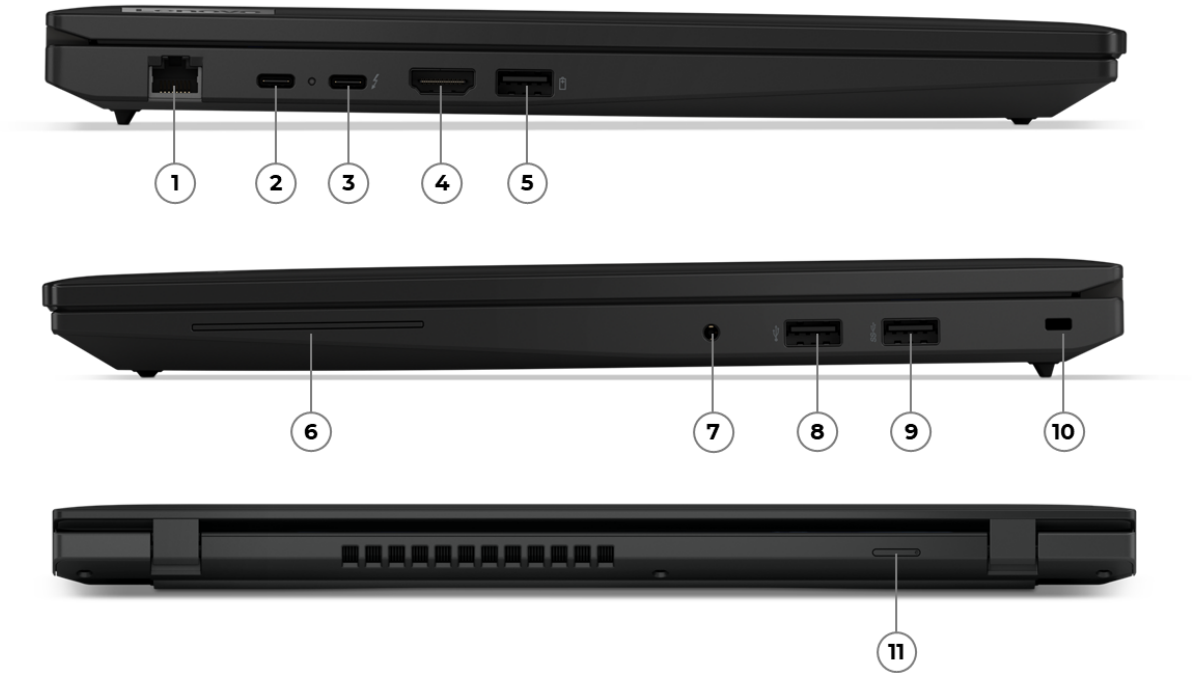


## OVERVIEW



|   |  |
|---|--|
| 1. Ethernet (RJ-45)                             | 7. Headphone / microphone combo jack (3.5mm) |
| 2. USB-C (USB 20Gbps), with USB PD 3.0 & DP 1.4 | 8. USB-A (Hi-Speed USB)                      |
| 3. Thunderbolt 4                                | 9. USB-A (USB 5Gbps)                         |
| 4. HDMI   | 10. Kensington Nano Security Slot            |
| 5. USB-A (USB 5Gbps), Always On                 | 11. Nano-SIM card slot (WWAN model) *        |
| 6. Smart card reader *                          |  |

Notes:

- Items with \* are only available on selected models

## PERFORMANCE

### Processor

#### Processor Family

Intel® U or H Series Core Ultra 5 / 7 Processor (Series 1)

#### Processor\*\*

| Processor Name    | Cores                                 | Threads | Base Frequency                                  | Max Frequency                                   | Cache | Processor Graphics                  | NPU             |
|-------------------|---------------------------------------|---------|---|---|-------|-------------------------------------|-----------------|
| Core Ultra 5 125H | 14 (4 P-core + 8 E-core + 2 LPE-core) | 18      | P-core 1.2GHz / E-core 700MHz / LPE-core 700MHz | P-core 4.5GHz / E-core 3.6GHz / LPE-core 2.5GHz | 18MB  | Intel® Arc™ Graphics <sup>[1]</sup> | Intel® AI Boost |
| Core Ultra 5 125U | 12 (2 P-core + 8 E-core + 2 LPE-core) | 14      | P-core 1.3GHz / E-core 800MHz / LPE-core 700MHz | P-core 4.3GHz / E-core 3.6GHz / LPE-core 2.1GHz | 12MB  | Intel® Graphics                     | Intel® AI Boost |
| Core Ultra 5 135H | 14 (4 P-core + 8 E-core + 2 LPE-core) | 18      | P-core 1.7GHz / E-core 1.2GHz / LPE-core 700MHz | P-core 4.6GHz / E-core 3.6GHz / LPE-core 2.5GHz | 18MB  | Intel® Arc™ Graphics                | Intel® AI Boost |
| Core Ultra 5 135U | 12 (2 P-core + 8 E-core + 2 LPE-core) | 14      | P-core 1.6GHz / E-core 1.1GHz / LPE-core 700MHz | P-core 4.4GHz / E-core 3.6GHz / LPE-core 2.1GHz | 12MB  | Intel® Graphics                     | Intel® AI Boost |
| Core Ultra 7 155H | 16 (6 P-core + 8 E-core + 2 LPE-core) | 22      | P-core 1.4GHz / E-core 900MHz / LPE-core 700MHz | P-core 4.8GHz / E-core 3.8GHz / LPE-core 2.5GHz | 24MB  | Intel® Arc™ Graphics <sup>[2]</sup> | Intel® AI Boost |
| Core Ultra 7 155U | 12 (2 P-core + 8 E-core + 2 LPE-core) | 14      | P-core 1.7GHz / E-core 1.2GHz / LPE-core 700MHz | P-core 4.8GHz / E-core 3.8GHz / LPE-core 2.1GHz | 12MB  | Intel® Graphics                     | Intel® AI Boost |
| Core Ultra 7 165U | 12 (2 P-core + 8 E-core + 2 LPE-core) | 14      | P-core 1.7GHz / E-core 1.2GHz / LPE-core 700MHz | P-core 4.9GHz / E-core 3.8GHz / LPE-core 2.1GHz | 12MB  | Intel® Graphics                     | Intel® AI Boost |

Notes:

[1], [2] Intel® Arc™ Graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

### AI (Artificial Intelligence)

#### AI PC Category

AI PC

#### NPU

Integrated Intel® AI Boost, up to 11 TOPS

### Operating System

#### Operating System\*\*

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

Notes:

[1] Windows® 11 DG Windows® 10 Pro 64 is for special bid only.

[2], [3] Some features may not be supported on the system with Linux preload, including but not limited to Intel® RST RAID, MIPI computer vision camera, WWAN, Human Presence Detection, etc.

### Graphics

**Graphics\*\***

| Graphics                            | Type       | Memory | TGP           | Key Features  |
|-------------------------------------|------------|--------|---------------|---------------|
| Intel® Arc™ Graphics <sup>[1]</sup> | Integrated | Shared | Share CPU TDP | DirectX® 12.2 |
| Intel® Graphics                     | Integrated | Shared | Share CPU TDP | DirectX® 12.1 |

Notes:

[1] Intel® Arc™ Graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® 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 4K@60Hz
- USB-C® supports up to 5K@120Hz
- Thunderbolt™ supports up to 8K@60Hz

**Chipset****Chipset**

Intel® SoC (System on Chip) platform

**Memory****Max Memory<sup>[1]</sup>**

Up to 64GB DDR5-5600

**Memory Slots**

Two DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**

DDR5-5600

Notes:

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

**Storage****Storage Support<sup>[1]</sup>**

One drive, up to 2TB M.2 2280 SSD

**Storage Slot**

One M.2 2280 PCIe® 4.0 x4 slot

**Storage Type\*\***

| Disk Type    | Interface                             | Offering            | Security |
|--------------|---------------------------------------|---------------------|----------|
| M.2 2280 SSD | PCIe® NVMe®, PCIe® 4.0 x4             | 256GB / 512GB / 1TB | Opal 2.0 |
| M.2 2280 SSD | PCIe® NVMe®, PCIe® 4.0 x4 Performance | 2TB                 | Opal 2.0 |

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, Senary SN6147 codec

**Speakers**

Stereo speakers, 2W x2, Dolby Audio™

## Microphone

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

## Camera\*\*

- 5.0MP + IR discrete, with privacy shutter, fixed focus, temporal noise reduction
- HD 720p, with privacy shutter, fixed focus

## Battery

### Battery\*\*<sup>[1]</sup>

- Integrated Li-Polymer 46.5Wh 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

### Battery Life<sup>[2]</sup>

Configuration 1 (max battery life)

MobileMark® 25: up to 13.68 hr with 722 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 12.56 hr / 24.65 hr @200nits

Local video playback: up to 25.2 hr @150nits

Alternate configuration 2

MobileMark® 25: up to 13.3 hr with 791 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 12.39 hr / 27.4 hr @200nits

Local video playback: up to 22.91 hr @150nits

Alternate configuration 3

MobileMark® 25: up to 9.05 hr with 792 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 6.23 hr / 13 hr @200nits

Local video playback: up to 12.81 hr @150nits

### Notes:

[1] Rapid charge is only guaranteed when the computer is turned off or in standby mode or in hibernation mode. When the computer is powered on, the Charge Time will vary depending on system power consumption and AC adapter power.

[2] Configuration 1 (max battery life): WUXGA (non-touch), Intel® Core™ Ultra 5 125U, 8GB DDR5, Win 11, 57Wh battery, best power efficiency power mode

Alternate configuration 2: WUXGA (non-touch), Intel® Core™ Ultra 5 125H, 8GB DDR5, Win 11, 57Wh battery, best power efficiency power mode

Alternate configuration 3: WUXGA (non-touch), Intel® Core™ Ultra 5 125H, 8GB+8GB DDR5, 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 3.0, 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\*\*<sup>[1]</sup>

- 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<sup>[2]</sup>

### Notes:

[1] AC adapter offerings depend on the country.

[2] No power adapter is for special bid only.

## DESIGN

## Display

### Display\*\*

| Size | Resolution        | Touch       | Type               | Brightness | Surface    | Aspect Ratio | Contrast Ratio | Color Gamut | Refresh Rate | Viewing Angle (L/R/U/D) | Key Features                      |
|------|-------------------|-------------|--------------------|------------|------------|--------------|----------------|-------------|--------------|-------------------------|-----------------------------------|
| 16"  | WUXGA (1920x1200) | None        | IPS <sup>[1]</sup> | 300nits    | Anti-glare | 16:10        | 1000:1         | 45% NTSC    | 60Hz         | 89° / 89° / 89° / 89°   | -                                 |
| 16"  | WUXGA (1920x1200) | Multi-touch | IPS <sup>[2]</sup> | 300nits    | Anti-glare | 16:10        | 1500:1         | 45% NTSC    | 60Hz         | 89° / 89° / 89° / 89°   | Eyesafe® Certified 2.0            |
| 16"  | WUXGA (1920x1200) | None        | IPS <sup>[3]</sup> | 400nits    | Anti-glare | 16:10        | 1500:1         | 100% sRGB   | 60Hz         | 89° / 89° / 89° / 89°   | Low power, Eyesafe® Certified 2.0 |

### 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

### Pen

No support

### Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, Copilot key

### Keyboard Backlight

- LED backlight
- Non-backlight

### UltraNav™

TrackPoint® pointing device, double-tap to open the TrackPoint® Quick Menu  
Mylar® surface multi-touch touchpad, 67.6 x 115 mm (2.66 x 4.53 inches)

## Mechanical

### Dimensions (WxDxH)<sup>[1]</sup>

357.2 x 253.4 x 20.78 mm (14.06 x 9.98 x 0.82 inches)

### Weight<sup>[2]</sup>

Starting at 1.77 kg (3.90 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, 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®\*\*<sup>[1]</sup>**

- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3<sup>[2]</sup>
- Intel® Wi-Fi® 7 BE200, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.3 (Bluetooth® 5.4 hardware ready)<sup>[3]</sup>

**WWAN\*\***

- Wireless WAN upgradable to 4G (with antenna ready)
- Quectel EM061K-GL, 4G LTE CAT6, 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® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[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.

Bluetooth® 5.3 operation requires Windows® 11. For more information please visit [General Bluetooth® Support Information on Microsoft®](#).

[3] Wi-Fi® 7 is only enabled on Windows® 11 and operates as Wi-Fi® 6 with Windows® 10.

6GHz Wi-Fi® 7 operation is subject to the regulation rules in each country.

Bluetooth® 5.3 operation requires Windows® 11. For more information please visit [General Bluetooth® Support Information on Microsoft®](#).

**Ports<sup>[1]</sup>****Standard Ports**

- 1x USB-A (Hi-Speed USB / USB 2.0)
- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1), one Always On
- 1x USB-C® (USB 20Gbps / USB 3.2 Gen 2x2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)

**Optional Ports\*\*\***

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

**Notes:**

[1] The transfer speed of the 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.

**Docking****Docking**

Various docking solutions supported via Thunderbolt™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkPad® L16 Gen 1 \(Intel®\)](#)

**SECURITY & PRIVACY****Security****Security Chip**

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

**Physical Locks**

Kensington® Nano Security Slot™, 2.5 x 6 mm

**Smart Card Reader**

- Smart card reader, supports ISO 7816 and EMV
- No smart card reader

#### Fingerprint Reader

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

#### BIOS Security

- NVMe<sup>®</sup> password
- Power-on password
- Supervisor password
- System management password
- Certificate based BIOS authentication
- FIDO (Fast Identity Online) authentication
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)

#### Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows<sup>®</sup> Hello (facial recognition)

## MANAGEABILITY

### System Management

#### System Management\*\*

- Intel<sup>®</sup> vPro<sup>®</sup> Enterprise<sup>[1]</sup>
- Intel<sup>®</sup> vPro<sup>®</sup> Essentials<sup>[2]</sup>
- Non-vPro<sup>®</sup>

Notes:

[1], [2] Intel<sup>®</sup> vPro<sup>®</sup> 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)
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service
- No base warranty

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories\*\*\*<sup>[1]</sup>

- Lenovo<sup>®</sup> HDMI<sup>®</sup> to VGA Monitor Adapter
- Lenovo<sup>®</sup> USB-C<sup>®</sup> to DisplayPort<sup>™</sup> Adapter
- Lenovo<sup>®</sup> USB-C<sup>®</sup> to VGA Adapter
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad<sup>®</sup> L16 Gen 1 \(Intel<sup>®</sup>\)](#).

## OPERATING REQUIREMENTS

### Operating Environment

#### Temperature<sup>[1]</sup>

- 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)

**Relative Humidity**

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage and transportation: 5% to 95% at wet-bulb temperature 27°C (81°F)

**Altitude**

Maximum altitude (without pressurization): 3048 m (10,000 ft)

Notes:

[1] When you charge the battery, its temperature must be no lower than 10°C (50°F).

## ENVIRONMENTAL

### Sustainability

**Material<sup>[1]</sup>**

50% recycled aluminium on top cover  
60% PCC recycled on keyboard frame  
50% PCC recycled on PC/ABS bottom cover  
30% PCC recycled on PC/CF bottom cover  
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 pack enclosure  
90% PCC recycled plastic used in slim 65W adapters  
Low-temperature solder  
FSC Certified Plastic Free Packaging

Notes:

[1] PCC: Post Consumer Content, recycled materials from customers.

## CERTIFICATIONS

### Green Certifications<sup>[1]</sup>

**Green Certifications<sup>[2]</sup>**

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered<sup>[3]</sup>
- ErP Lot 6/26
- RoHS compliant
- TCO Certified 9.0

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration. For ESG & regulatory compliance documents, please visit <https://compliance.lenovo.com>.

[2] EPEAT™ registration and ENERGY STAR® certification are optional and only available on the models with preloaded OS. Please visit [epeat.net](http://epeat.net) and [energystar.gov](http://energystar.gov) for more information.

[3] EPEAT™ is registered where applicable, please visit [epeat.net](http://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)

- Feature with \*\* means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
- Feature with \*\*\* means that one or more options listed under the feature can be configured on selected



models. Please refer to the model configuration for specific information.

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