# OVERVIEW



| 1. USB-A (USB 5Gbps) | 5. Thunderbolt 4 |
|---|---|
| 2. Ethernet (RJ-45) | 6. USB-A (USB 10Gbps), Always On |
| 3. Kensington Nano Security Slot | 7. HDMI |
| 4. USB-C (USB 20Gbps), with USB PD 3.0 & DP 1.4 | 8. Headphone / microphone combo jack (3.5mm) |

# 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[1] | 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 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[2] | 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
- Ubuntu Linux[1]
- No preload 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****

| Graphics | Type | Memory | TGP | Key Features |
|---|---|---|---|---|
| Intel® Arc™ Graphics[1] | 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@60Hz
• Thunderbolt™ supports up to 8K@60Hz

## Chipset

**Chipset**

Intel® SoC (System on Chip) platform

## Memory

**Max Memory[1]**

Up to 64GB DDR5-5600

**Memory Slots**

Two DDR5 SO-DIMM slots, dual-channel capable

**Memory Type**

DDR5-5600

Notes:

[1] Maximum memory is only to test technical readiness of notebook but not shipped by Lenovo®.

## Storage

**Storage Support[1]**

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

**Storage Slot**

Two M.2 slots
• One M.2 2242 PCIe® 4.0 x4 slot
• One M.2 2280 PCIe® 4.0 x4 slot

**Storage Type**

| Disk Type | Interface | Offering | Security |
|---|---|---|---|
| M.2 2242 SSD | PCIe® NVMe®, PCIe® 4.0 x4 | 256GB / 512GB / 1TB | Opal 2.0 |

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® only offers one M.2 2242 SSD configuration and M.2 2280 slot for user self-extension.

## Removable Storage

**Card Reader**

No card reader

## Multi-Media

**Audio Chip**

High Definition (HD) Audio, Senary SN6141 codec

**Speakers**

Stereo speakers, 2W x2, Dolby Atmos®, audio by HARMAN

**Microphone**

Dual-microphone array with smart noise-cancelling

**Camera\*\***

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus, temporal noise reduction
- FHD 1080p, with privacy shutter, fixed focus, temporal noise reduction
- HD 720p, with privacy shutter, fixed focus

## Battery

**Battery**\*\*[1]

- Integrated Li-Polymer 47Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

**Battery Life**[2]

Configuration 1 (max battery life)
MobileMark® 25: up to 11.58 hr with 615 performance score @250nits
JEITA-BAT 3.0 (Video/Idle): up to 10.82 hr / 20.22 hr @200nits
Local video playback: up to 20.09 hr @150nits

Alternate configuration 2
MobileMark® 25: up to 11.36 hr with 640 performance score @250nits
JEITA-BAT 3.0 (Video/Idle): up to 10.5 hr / 19.71 hr @200nits
Local video playback: up to 18.5 hr @150nits

Alternate configuration 3
MobileMark® 25: up to 9.13 hr with 655 performance score @250nits
JEITA-BAT 3.0 (Video/Idle): up to 8.5 hr / 16.3 hr @200nits
Local video playback: up to 15.15 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+8GB DDR5, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (touch), Intel® Core™ Ultra 5 125H, 16GB DDR5, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (touch), Intel® Core™ Ultra 5 125H, 16GB DDR5, Win 11, 47Wh 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**\*\*[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:

[1] AC adapter offerings depend on the country.

# 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[1] | 300nits | Anti-glare | 16:10 | 800:1 | 45% NTSC | 60Hz | 85° / 85° / 85° / 85° | TÜV Low Blue Light |

| 16″ | WUXGA (1920x1200) | Multi-touch | IPS[2] | 300nits | Anti-glare | 16:10 | 800:1 | 45% NTSC | 60Hz | 85° / 85° / 85° / 85° | TÜV Low Blue Light (Software) |
|-----|-------------------|-------------|--------|---------|-----------|-------|-------|----------|------|------------------------|-------------------------------|
| 16″ | WUXGA (1920x1200) | None | IPS[3] | 400nits | Anti-glare | 16:10 | 1000:1 | 100% sRGB | 60Hz | 85° / 85° / 85° / 85° | Eyesafe® Certified 2.0 |
| 16″ | WQXGA (2560x1600) | None | IPS[4] | 400nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 60Hz | 85° / 85° / 85° / 85° | 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

**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, 68 x 115 mm (2.68 x 4.53 inches)

## Mechanical

**Dimensions (WxDxH)**[1]

| Models | Dimensions |
|--------|-----------|
| Models with aluminium (top) and aluminium (bottom) | 356.1 x 247.7 x 19.85 mm (14.02 x 9.75 x 0.78 inches) |
| Models with aluminium (top) and PC-ABS (bottom) | 356.1 x 247.7 x 20.20 mm (14.02 x 9.75 x 0.80 inches) |

**Weight**[2]

| Models | Weight |
|--------|--------|
| Models with aluminium (top) and PC-ABS (bottom) | Starting at 1.78 kg (3.92 lbs) |
| Models with aluminium (top) and aluminium (bottom) | Starting at 1.81 kg (3.99 lbs) |

**Case Color**

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-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]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Realtek® Wi-Fi® 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Intel® Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 Card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card[2]
- Realtek® Wi-Fi® 6E RTL8852CE, 802.11ax Dual Band 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card[3]
- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 Card[4]

**WWAN**

No support

**SIM Card**

No physical SIM card inbox

**NFC**

No support

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Notes:

[1] Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2], [3], [4] 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®.

## Ports[1]

**Standard Ports**

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2), 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)

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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® E16 Gen 2 (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**

No smart card reader

**Fingerprint Reader**

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

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**BIOS Security**

- NVMe® 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[1]

**Other Security**

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

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

# 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 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

# ACCESSORIES

## Bundled Accessories

**Bundled Accessories[1]**

- Lenovo® 15.6″ laptop casual toploader, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit Accessories for ThinkPad® E16 Gen 2 (Intel®).

# OPERATING REQUIREMENTS

## Operating Environment

**Temperature[1]**

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

**Relative Humidity**

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

**Altitude**

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

Notes:

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

# ENVIRONMENTAL

## Sustainability

**Material**[1]

25% PCC recycled plastic used in the battery pack enclosure
30% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in standard 65W adapter
Plastic free packaging
Dry-pressed bamboo & sugarcane fiber Cushions
FSC Certified paper in packaging

Notes:

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

# CERTIFICATIONS

## Green Certifications[1]

**Green Certifications**[2]

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered[3]
- 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 and energystar.gov for more information.
[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

## Other Certifications

**Mil-Spec Test**

MIL-STD-810H military test passed

**Other Certifications**

- (Optional) 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 option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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