

OVERVIEW



| | |
|--|------------------|
| 1. Speaker | 4. HDMI |
| 2. Thunderbolt 4 | 5. Thunderbolt 4 |
| 3. Headphone / microphone combo jack (3.5mm) | 6. Speaker |

PERFORMANCE

Processor

Processor Family

Intel® V Series Core Ultra 5 / 7 Processor (Series 2)

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Processor Graphics | NPU |
|-------------------|---------------------------|---------|---------------------------------|---------------------------------|-------|--|-----------------|
| Core Ultra 5 226V | 8 (4 P-core + 4 LPE-core) | 8 | P-core 2.1GHz / LPE-core 2.1GHz | P-core 4.5GHz / LPE-core 3.5GHz | 8MB | Intel® Arc™ Graphics 130V, up to 53 TOPS | Intel® AI Boost |
| Core Ultra 5 228V | 8 (4 P-core + 4 LPE-core) | 8 | P-core 2.1GHz / LPE-core 2.1GHz | P-core 4.5GHz / LPE-core 3.5GHz | 8MB | Intel® Arc™ Graphics 130V, up to 53 TOPS | Intel® AI Boost |
| Core Ultra 5 238V | 8 (4 P-core + 4 LPE-core) | 8 | P-core 2.1GHz / LPE-core 2.1GHz | P-core 4.7GHz / LPE-core 3.5GHz | 8MB | Intel® Arc™ Graphics 130V, up to 53 TOPS | Intel® AI Boost |
| Core Ultra 7 258V | 8 (4 P-core + 4 LPE-core) | 8 | P-core 2.2GHz / LPE-core 2.2GHz | P-core 4.8GHz / LPE-core 3.7GHz | 12MB | Intel® Arc™ Graphics 140V, up to 64 TOPS | Intel® AI Boost |
| Core Ultra 7 268V | 8 (4 P-core + 4 LPE-core) | 8 | P-core 2.2GHz / LPE-core 2.2GHz | P-core 5GHz / LPE-core 3.7GHz | 12MB | Intel® Arc™ Graphics 140V, up to 66 TOPS | Intel® AI Boost |

AI (Artificial Intelligence)

AI PC Category

Copilot+ PC

AI Performance

Up to 118 overall TOPS

NPU

Integrated Intel® AI Boost, up to 48 TOPS

Operating System

Operating System**

- Windows® 11 Pro
- Windows® 11 Home
- Ubuntu Linux^[1]
- Linux^[2]
- No preload 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**

| Graphics | Type | Memory | TGP | Key Features |
|---------------------------|------------|--------|---------------|---------------|
| Intel® Arc™ Graphics 130V | Integrated | Shared | Share CPU TDP | DirectX® 12.2 |
| Intel® Arc™ Graphics 140V | Integrated | Shared | Share CPU TDP | DirectX® 12.2 |

Monitor Support

Monitor Support^[1]

Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and Thunderbolt™)

- HDMI® supports up to 4K@60Hz
- Thunderbolt™ supports up to 8K@60Hz^[2]

Notes:

[1] Refresh rates >60hz also supported, however max resolution will be limited.

[2] 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

- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5x-8533, MoP (Memory on Package) memory

Storage

Storage Support^[1]

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

Storage Slot

One M.2 2242 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 / 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, Cirrus Logic® CS42L43

Speakers

Stereo speakers, 2W x2, Dolby Atmos®

Microphone

Dual-microphone array

Camera**

- FHD 1080p + IR discrete, with E-shutter, fixed focus, temporal noise reduction
- UHD 8.0MP with large sensor + IR discrete, with E-shutter, ToF sensor, MIPI, fixed focus, temporal noise reduction

Battery

Battery

Integrated Li-Polymer 55Wh battery, supports Rapid Charge (charge up to 80% in 1hr)^[1]

Battery Life^[2]

MobileMark® 25: up to 15.63 hr with 776 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 13.54 hr / 19.66 hr @200nits

Local video playback: up to 25.26 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: WUXGA 400nits (non-touch), Intel® Core™ Ultra 5 226V, 16GB LPDDR5x, Win 11, 55Wh 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® nano GaN (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® nano GaN (3-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim GaN (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim GaN (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter^[2]

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 |
|------|-------------------|-------------|------|------------|------------------------------|--------------|----------------|-------------|--------------|-------------------------|---|
| 14" | WUXGA (1920x1200) | None | OLED | 400nits | Anti-glare | 16:10 | 100,000:1 | 100% DCI-P3 | 60Hz | 85° / 85° / 85° / 85° | DisplayHDR™ True Black 500, Dolby Vision®, Eyesafe® Certified 2.0, 90.9% screen to body ratio |
| 14" | 2.8K (2880x1800) | Multi-touch | OLED | 500nits | Anti-reflection, anti-smudge | 16:10 | 100,000:1 | 100% DCI-P3 | 30-120Hz VRR | 85° / 85° / 85° / 85° | DisplayHDR™ True Black 600, Dolby Vision®, Eyesafe® Certified 2.0, 90.9% screen to body ratio |

Touchscreen

- OGM (One Glass Metal mesh) multi-touch, supports 10-point touch
- Non-touch

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, Copilot key

Keyboard Backlight

LED backlight

Touchpad

Buttonless glass surface multi-touch Haptic Touchpad, supports Precision TouchPad (PTP), 80 x 130 mm (3.15 x 5.12 inches)

Mechanical

Dimensions (WxDxH)^[1]

311.8 x 212.3 x 6.7 - 17.18 mm (12.28 x 8.36 x 0.26 - 0.68 inches)

Weight^[2]

| Models | Weight |
|---------------------------------|--------------------------------|
| Models with multi-touch display | Starting at 1.27 kg (2.80 lbs) |
| Models with non-touch display | Starting at 1.21 kg (2.66 lbs) |

Case Color

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® 7 BE201, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4^[3]

WWAN

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

[3] 6GHz Wi-Fi® 7 operation is subject to the regulation rules in each country.

Ports^[1]

Standard Ports

- 2x 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)

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™ / USB-C®.
For more compatible docking solutions, please visit [Docking for ThinkPad® X9-14 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 integrated in power button, match-on-chip

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](#)

Other Security

- Ultrasonic Human Presence Detection (WUXGA models)
- ToF Human Presence Detection (2.8K models)
- E-shutter
- IR camera for Windows® Hello (facial recognition)

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

ACCESSORIES

Bundled Accessories

Bundled Accessories***^[1]

- Lenovo® USB-C® to Ethernet Adapter (1Gbps)
- Lenovo® USB-C® to USB-A Adapter
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad® X9-14 Gen 1](#).

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]

50% recycled aluminium on top cover
50% recycled aluminium on keyboard frame
50% recycled aluminium on bottom cover
85% PCC recycled plastic used in keycaps
90% PCC recycled plastic used in speaker enclosure
100% recycled cobalt used in the 55Wh battery
90% PCC recycled plastic used in the battery frame
90% PCC recycled plastic used in standard 65W adapters
Bamboo + sugarcane fiber standard / retail 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 10.0

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

- Eyesafe® Certified 2.0
- (Optional) Intel® Evo™ Platform

- 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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