OVERVIEW

1. HDMI	5. SD card reader
2. Thunderbolt 4	6. Thunderbolt 4
3. Thunderbolt 4	7. USB-A (USB 10Gbps)
4. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

Intel Core™ Ultra 5 / X7 / X9 Processor (Series 3)

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Intel® vPro® Eligibility
Core Ultra 5 338H	12 (4 P-core + 4 E-core + 4 LP E-core)	12	P-core 1.9GHz / E-core 1.5GHz / LP E-core 1.5GHz	P-core 4.7GHz / E-core 3.4GHz / LP E-core 3.3GHz	18MB Intel® Smart Cache	Intel® Arc™ B370 GPU, up to 98 TOPS	Up to 47 TOPS	Intel® vPro® Platform
Core Ultra X7 358H	16 (4 P-core + 8 E-core + 4 LP E-core)	16	P-core 1.9GHz / E-core 1.5GHz / LP E-core 1.5GHz	P-core 4.8GHz / E-core 3.5GHz / LP E-core 3.3GHz	18MB Intel® Smart Cache	Intel® Arc™ B390 GPU, up to 122 TOPS	Up to 50 TOPS	-
Core Ultra X7 368H	16 (4 P-core + 8 E-core + 4 LP E-core)	16	P-core 2.0GHz / E-core 1.6GHz / LP E-core 1.6GHz	P-core 5.0GHz / E-core 3.8GHz / LP E-core 3.6GHz	18MB Intel® Smart Cache	Intel® Arc™ B390 GPU, up to 122 TOPS	Up to 50 TOPS	Intel® vPro® Platform
Core Ultra X9 378H	16 (4 P-core + 8 E-core + 4 LP E-core)	16	P-core 2.0GHz / E-core 1.6GHz / LP E-core 1.6GHz	P-core 5.0GHz / E-core 3.8GHz / LP E-core 3.6GHz	18MB Intel® Smart Cache	Intel® Arc™ B390 GPU, up to 122 TOPS	Up to 50 TOPS	-
Core Ultra X9 388H	16 (4 P-core + 8 E-core + 4 LP E-core)	16	P-core 2.1GHz / E-core 1.6GHz / LP E-core 1.6GHz	P-core 5.1GHz / E-core 3.8GHz / LP E-core 3.7GHz	18MB Intel® Smart Cache	Intel® Arc™ B390 GPU, up to 122 TOPS	Up to 50 TOPS	Intel® vPro® Platform

AI (Artificial Intelligence)

AI PC Category

Copilot+ PC[1]

NPU

Up to 50 TOPS

Notes:

[1] Copilot+ PCs have at least 16GB RAM, 256GB storage, and a NPU that runs 40+ TOPs to run the latest AI tools build-in latest Windows® 11 to accelerate productivity and creativity.

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	Key Features
Intel® Arc™ B370 GPU	Integrated	Shared	DirectX® 12 Ultimate

Intel® Arc™ B390 GPU	Integrated	Shared	DirectX® 12 Ultimate

Monitor Support

Monitor Support[1]

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[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

- 32GB soldered memory, not upgradable
- 64GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

- LPDDR5X-8533[1]
- LPDDR5X-9600

Notes:

[1] The memory installed on the model with Intel Core™ Ultra 5 338H is actually LPDDR5X-9600 but runs as LPDDR5X-8533 due to processor limitation.

Storage

Max Storage Support[1]

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

Storage Slot[2]

One M.2 2280 PCIe® 5.0 x4 slot

Storage Type**

Disk Type	Interface	Offering	Security
M.2 2280 SSD	PCIe® NVMe®, PCIe® 4.0 x4	1TB	Opal 2.0
M.2 2280 SSD	PCIe® NVMe®, PCIe® 5.0 x4 Performance	1TB / 2TB	Opal 2.0

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

SoundWire®, Cirrus Logic® CS42L43 codec

Speakers

6 stereo speakers, 2W x4 (dual side woofers), 2W x2 (tweeters), optimized with Dolby Atmos®, Smart Amplifier (AMP)

Microphone

Dual-microphone array, 360° far-field, Elevoc Voice

Camera

UHD 10.0MP with large sensor + IR discrete, with E-shutter, ToF sensor, MIPI, fixed focus, temporal noise reduction

Sensor

Sensors

- Accelerometer (G) sensor
- Color sensor
- ToF sensor

Battery

Battery

88Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter[1]

Battery Life[2]

Configuration 1 (max battery life)
MobileMark® 30: up to 23.6 hr with 1225 performance score @250nits
JEITA-BAT 3.0 (Video/Idle): up to 28.7 hr / 28.8 hr @200nits
Local video playback: up to 31.5 hr @150nits

Alternate configuration 2
MobileMark® 30: up to 22.9 hr with 1065 performance score @250nits
JEITA-BAT 3.0 (Video/Idle): up to 26.9 hr / 27.3 hr @200nits
Local video playback: up to 31.9 hr @150nits

Alternate configuration 3
MobileMark® 30: up to 23.2 hr with 1099 performance score @250nits
JEITA-BAT 3.0 (Video/Idle): up to 28.7 hr / 28.6 hr @200nits
Local video playback: up to 32.8 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: 2.8K (non-touch), Intel Core™ Ultra X7 368H, 32GB LPDDR5X, Win 11, 88Wh battery, best power efficiency power mode
Configuration 2: 2.8K (touch), Intel Core™ Ultra 5 338H, 32GB LPDDR5X, Win 11, 88Wh battery, best power efficiency power mode
Configuration 3: 2.8K (touch), Intel Core™ Ultra X7 358H, 64GB LPDDR5X, Win 11, 88Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using MobileMark® 30, 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 and depends 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]

- 100W USB-C® slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 100W dual-port USB-C® GaN (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 100W dual-port USB-C® GaN (3-pin, wall-mount) 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
15.3"	2.8K WQXGA+ (2880x1800)	Non-touch	OLED	1,100nits (HDR peak) / 500nits (SDR typical)	Anti-reflection, anti-fingerprint	16:10	1,000,000:1	100% DCI-P3	30-120Hz VRR	85° / 85° / 85° / 85°	Eye Comfort Certification (5-star), Dolby Vision®, DisplayHDR™ True Black 1000, X-Rite®, Pantone® Validated, Pantone® SkinTone™ Validated
15.3"	2.8K WQXGA+ (2880x1800)	Add-on Film touch	OLED	1,100nits (HDR peak) / 500nits (SDR typical)	Anti-reflection, anti-fingerprint	16:10	1,000,000:1	100% DCI-P3	30-120Hz VRR	85° / 85° / 85° / 85°	Eye Comfort Certification (5-star), Dolby Vision®, DisplayHDR™ True Black 1000, X-Rite®, Pantone® Validated, Pantone® SkinTone™ Validated

Touchscreen

- Add-on Film Touch, supports 10-point touch
- Non-touch

Screen-to-Body Ratio

91%

Color Calibration

X-Rite® factory color calibration

Input Device

Pen

No support

Keyboard

6-row, spill-resistant, multimedia Fn keys, key travel 1.35mm / 1.2mm (Fn row), Copilot key

Keyboard Backlight

LED backlight

Touchpad

Buttonless glass surface multi-touch Haptic Touchpad, supports Precision TouchPad (PTP), 85 x 135 mm (3.35 x 5.31 inches)

Mechanical

Dimensions (WxDxH)[1]

339.5 x 228.5 x 7.25 / 7.65 (front / rear), 17.9 (maximum) mm
13.37 x 9.0 x 0.29 / 0.30 (front / rear), 0.70 (maximum) inches

Weight[2]

Starting at 1.5 kg (3.31 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

WLAN + Bluetooth®[1]

- Intel® Wi-Fi® 7 BE211, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4 (Bluetooth® 6.0 hardware ready)
- Intel® Wi-Fi® 7 BE211, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4 (Bluetooth® 6.0 hardware ready), Intel® vPro® technology support[2]

WWAN

No support

SIM Card

No physical SIM card included

Ethernet[3]

No onboard Ethernet

NFC

No support

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.
[2] Intel® vPro® platform requires the hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. For detailed vPro® support information, please refer to the System Management section.
[3] Ethernet support via optional docking or Lenovo® USB-C® to Ethernet Adapter.

Ports[1]

Standard Ports

- 1x USB-A (USB 10Gbps), Always On
- 3x Thunderbolt™ 4, with USB PD 15-100W and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD card reader

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® X9-15p Gen 1 Aura Edition

SECURITY & PRIVACY

Security

ThinkShield

ThinkShield is a comprehensive security solution that encompasses hardware, software, and supply chain components. For more details, visit here

Security Chip

Discrete TPM 2.0, TCG certified, FIPS 140-3 certified

Smart Card Reader

No smart card reader

Fingerprint Reader

Touch style fingerprint reader integrated in power button, match-on-chip

BIOS Security

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

Other Security

- ToF Human Presence Detection
- E-shutter
- IR camera for Windows® Hello (facial recognition)

MANAGEABILITY

System Management

System Management[1]

- Intel® vPro® Enterprise[2]
- Non-vPro

Notes:

[1] Intel® vPro® platform require an eligible Intel® processor, a supported operating system, Intel® LAN and/or WLAN silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. See Intel® vPro® Platform for details.

[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

ACCESSORIES

Bundled Accessories

Bundled Accessories[1]

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

Notes:

[1] For more compatible accessory solutions, please visit Accessories for ThinkPad® X9-15p Gen 1 Aura Edition.

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
90% PCC recycled plastic used in the battery pack enclosure
90% PCC recycled plastic used in the battery frame
100% recycled cobalt used in the 88Wh battery
85% PCC recycled plastic used in key caps
60% PCC recycled plastic used in antenna enclosure
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in standard 100W adapter
FSC certified plastic-free packaging
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® 9.0
- EPEAT 2.0 Gold Registered[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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) Intel Evo™ Platform
- Eyesafe® Certified 2.0
- Pantone® SkinTone™ Validated
- Pantone® Validated
- TÜV Rheinland® Eye Comfort Certification (5-star)

- 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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