OVERVIEW

1. Nano-SIM card slot *	5. Kensington Nano Security Slot
2. SD Express 7.0 card reader	6. HDMI
3. Thunderbolt 4	7. 2x Thunderbolt 5
4. USB-A (USB 10Gbps), Always On	8. Headphone / microphone combo jack (3.5mm)

Notes:

- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

Intel® H Series Core Ultra 7 / 9 Processor (Series 3); supports up to 16 cores; up to 4.9GHz

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Intel® vPro® Eligibility
Core Ultra 7 356H	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 4.7GHz / E-core 3.5GHz / LP E-core 3.3GHz	18MB Intel® Smart Cache	Intel® Graphics, up to 40 TOPS	Up to 50 TOPS	-
Core Ultra 7 366H	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 4.8GHz / E-core 3.6GHz / LP E-core 3.4GHz	18MB Intel® Smart Cache	Intel® Graphics, up to 40 TOPS	Up to 50 TOPS	Intel® vPro® Platform
Core Ultra 9 386H	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 4.9GHz / E-core 3.7GHz / LP E-core 3.5GHz	18MB Intel® Smart Cache	Intel® Graphics, up to 40 TOPS	Up to 50 TOPS	Intel® vPro® Platform

AI (Artificial Intelligence)

AI PC Category

- AI-Ready Workstations
- Copilot+ PC

NPU

Up to 50 TOPS

Operating System

Operating System

- Windows® 11 Pro
- Windows® 11 Home
- Fedora Linux
- Ubuntu Linux LTS
- Red Hat Enterprise Linux 10.2 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)

Graphics

Graphics

Graphics	Type	Memory	AI TOPS (Peak)
NVIDIA® GeForce RTX™ 5060 8GB GDDR7 Laptop GPU	Discrete	8GB GDDR7	572 TOPS
NVIDIA® GeForce RTX™ 5070 12GB GDDR7 Laptop GPU	Discrete	12GB GDDR7	798 TOPS

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via Thunderbolt™ 5, Thunderbolt™ 4, and HDMI®).
Max resolution for multiple external display:
• 3x 5210x3200@60Hz (Thunderbolt™ 5 and Thunderbolt™ 4)
• 1x 3840x2160@60Hz (HDMI®)
Max resolution for single external display:
• Thunderbolt™ 4 supports up to 7680x4320@60Hz or 3840x2160@240Hz
• Thunderbolt™ 5 supports up to 7680x4320@60Hz or 3840x2160@240Hz
• HDMI® supports up to 7680x4320@60Hz or 3840x2160@240Hz

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory

Up to 96GB (1x 96GB LPCAMM2), upgradable

Memory Slots

One LPCAMM2 connector, dual-channel

Memory Type

LPDDR5X-8533, maximum transfer speeds of up to 8533 MT/s;
16GB / 32GB / 64GB / 96GB memory modules are available

Storage

Max Storage Support[1]

Up to two M.2 2280 Gen 5 Performance SSD; up to 8TB, 4TB each[2]

Storage Slot[3]

Two M.2 slots
• One M.2 2280 PCIe® 5.0 x4 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	512GB / 1TB	Opal 2.0
M.2 2280 SSD	PCIe® NVMe®, PCIe® 5.0 x4 Performance[4]	512GB / 1TB / 2TB / 4TB	Opal 2.0

RAID

RAID 0/1 support

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
[2] WWAN module occupies M.2 PCIe® 4.0 x4 slot, WWAN models support one M.2 SSD.
[3] 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).
[4] Gen 5 SSD on M.2 PCIe® 4.0 slot will run on PCIe® 4.0 protocols.

Removable Storage

Card Reader

SD Express 7.0 card reader

Multi-Media

Audio Chip

SoundWire®, Cirrus Logic® CS42L43 codec

Speakers

Stereo speakers:
• WLAN model: Dual speakers 2W x2, Dolby Atmos®
• WWAN model: Quad speakers (2W x2 + 1W x2), Dolby Atmos®

Microphone

- Dual-microphone array, far-field, Dolby Voice®
- No microphone (for special bid model)

Camera

- 5.0MP + IR, with privacy shutter, fixed focus, Computer Vision Human Presence Detection on Image Signal Processor (ISP), temporal noise reduction
- No camera (for special bid model)

Battery

Battery

90Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)

Power Adapter

Power Adapter[1]

- 140W USB-C® GaN (3-pin) AC adapter, supports PD 3.1, 100-240V, 50-60Hz
- No power adapter

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)	Non-touch	IPS	500nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	91.7% screen to body ratio, X-Rite® Factory Color Calibration, Low power, TÜV Low Blue Light, Eyesafe® 2.0 Certified, DC dimming
16″	WQUXGA (3840x2400)	Non-touch	IPS	800nits	Anti-glare	16:10	1500:1	100% DCI-P3	60Hz	85° / 85° / 85° / 85°	91.7% screen to body ratio, DisplayHDR™ 400, Dolby Vision®, Eyesafe® Certified 2.0, TÜV Low Blue Light, X-Rite® Factory Color Calibration, DC dimming
16″	3.2K (3200x2000)	Add-on Film Touch	Tandem OLED	SDR 600nits / HDR 1500nits (peak)	Anti-glare, anti-reflection, anti-smudge	16:10	100,000:1	100% DCI-P3	40-120Hz VRR	85° / 85° / 85° / 85°	90.9% screen to body ratio, DisplayHDR™ 600, Dolby Vision®, Eyesafe® Certified 2.0, TÜV Rheinland® Low Blue Light, X-Rite® Factory Color Calibration, PWM dimming

Touchscreen

Add-on Film Touch, supports 10-point touch (Tandem OLED models)

Screen-to-Body Ratio

- 90.9% (Tandem OLED models)
- 91.7% (IPS models)

Color Calibration

X-Rite® factory color calibration

Input Device

Pen

- Lenovo® Yoga® Pen
- No pen bundled (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

UltraNav™

3-button TrackPoint® pointing device and glass surface multi-touch Haptic Touchpad, 85 x 135 mm (3.35 x 5.31 inches)

Mechanical

Dimensions (WxDxH)[1]

354.4 × 241.2 × 9.87 / 15.8 (front / rear), 20.6 (maximum) mm
13.95 × 9.50 × 0.39 / 0.62 (front / rear), 0.81 (maximum) inches

Weight[2]

Starting at 1.80 kg (3.98 lbs, TBD)

Case Color

Black

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

- Wireless WAN upgradable to 5G (with antenna ready)
- Snapdragon® X61, 5G Sub-6 GHz, with embedded eSIM functionality
- No support

SIM Card

No physical SIM card included

Ethernet

No onboard Ethernet, supports optional Lenovo® USB-C® to Ethernet Adapter (2.5Gbps)

NFC

- Near Field Communication
- 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.

Ports[1]

Standard Ports

- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2), Always On
- 2x Thunderbolt™ 5, with USB PD 3.1 and DisplayPort™ 2.1, 140W input / 15W output
- 1x Thunderbolt™ 4, with DisplayPort™ 2.1 and USB PD 3.1, 140W input / 15W output
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD Express 7.0 card reader
- 1x Kensington® Nano Security Slot™

Optional Ports

- 1x 2.5GbE RJ-45, via Lenovo® USB-C® to Ethernet Adapter (2.5Gbps)
- 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.
Thunderbolt™ 5: 80 Gbit/s (bidirectional), up to 120 Gbit/s in bandwidth boost mode for video-intensive applications.

SECURITY & PRIVACY

Security

Security Chip

- Firmware TPM 2.0 integrated in SoC
- Discrete TPM 2.0, TCG 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

BIOS Security

- NVMe® password
- Power-on password
- Supervisor password
- Self-healing BIOS

Other Security

- (Optional) Computer Vision-based Human Presence Detection
- Bottom cover tamper detection
- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

MANAGEABILITY

System Management

System Management

- Intel® vPro® Enterprise
- Non-vPro®

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

- Lenovo® HDMI® to VGA Monitor Adapter
- Lenovo® USB-C® to DisplayPort™ Adapter
- Lenovo® USB-C® to Ethernet Adapter (2.5Gbps)
- Lenovo® USB-C® to VGA Adapter

OPERATING REQUIREMENTS

Operating Environment

Temperature[1]

- 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 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]

90% Recycled Magnesium Aluminum C cover
75% Recycled Aluminum A cover
55% Recycled Aluminum D cover
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery pack enclosure
50% PCC plastic D cover (Attached Internal Components)
90% PCC plastic 140W AC Adapter
46% Total PCC plastic
Plastic free packaging with 90% recycled and / or FSC certified content

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Notes:

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

CERTIFICATIONS

Green Certifications[1]

Green Certifications[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered
- 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.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- Eyesafe® Certified 2.0
- TÜV Rheinland® Low Blue Light

ISV Certifications

ISV Certifications

Please visit ISV certifications for Lenovo® Workstations

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