OVERVIEW



1. Smart card reader *	6. HDMI
2. Nano-SIM card slot *	7. 2x Thunderbolt 4
3. USB-A (USB 5Gbps)	8. USB-A (USB 5Gbps), Always On
4. Ethernet (GbE RJ-45)	9. Headphone jack (3.5mm)
5. Kensington Nano Security Slot	

Notes:
- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

Intel® H Series Core Ultra 5 / 7 / 9 Processor (Series 2); supports up to 16 cores; up to 5.4GHz; base TDP ratings of up to 55W (without discrete GPU loading or integrated graphics only model) / 35W (with discrete GPU loading)

Processor**[1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	Intel® vPro® Eligibility	NPU	Overall TOPS
Core Ultra 5 225H	14 (4 P-core + 8 E-core + 2 LPE-core)	14	P-core 1.7GHz / E-core 1.3GHz / LPE-core 700MHz	P-core 4.9GHz / E-core 4.3GHz / LPE-core 2.5GHz	18MB	Intel® Arc™ 130T GPU, up to 63 TOPS	-	Intel® AI Boost, up to 13 TOPS	Up to 83 TOPS
Core Ultra 5 235H	14 (4 P-core + 8 E-core + 2 LPE-core)	14	P-core 2.4GHz / E-core 1.8GHz / LPE-core 700MHz	P-core 5.0GHz / E-core 4.4GHz / LPE-core 2.5GHz	18MB	Intel® Arc™ 140T GPU, up to 74 TOPS	Intel® vPro® Enterprise	Intel® AI Boost, up to 13 TOPS	Up to 94 TOPS
Core Ultra 7 255H	16 (6 P-core + 8 E-core + 2 LPE-core)	16	P-core 2GHz / E-core 1.5GHz / LPE-core 700MHz	P-core 5.1GHz / E-core 4.4GHz / LPE-core 2.5GHz	24MB	Intel® Arc™ 140T GPU, up to 74 TOPS	-	Intel® AI Boost, up to 13 TOPS	Up to 96 TOPS
Core Ultra 7 265H	16 (6 P-core + 8 E-core + 2 LPE-core)	16	P-core 2.2GHz / E-core 1.7GHz / LPE-core 700MHz	P-core 5.3GHz / E-core 4.5GHz / LPE-core 2.5GHz	24MB	Intel® Arc™ 140T GPU, up to 75 TOPS	Intel® vPro® Enterprise	Intel® AI Boost, up to 13 TOPS	Up to 97 TOPS
Core Ultra 9 285H	16 (6 P-core + 8 E-core + 2 LPE-core)	16	P-core 2.9GHz / E-core 2.7GHz / LPE-core 1GHz	P-core 5.4GHz / E-core 4.5GHz / LPE-core 2.5GHz	24MB	Intel® Arc™ 140T GPU, up to 77 TOPS	Intel® vPro® Enterprise	Intel® AI Boost, up to 13 TOPS	Up to 99 TOPS

Notes:

[1] Intel® vPro® platform requires 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. For detailed vPro® support information, please refer to the System Management section.

AI (Artificial Intelligence)

AI PC Category

AI-Ready Workstations

NPU

Integrated Intel® AI Boost, up to 13 TOPS

Operating System

Operating System

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Ubuntu Linux
- Red Hat Enterprise Linux 10 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)[1]

Notes:

[1] Red Hat Enterprise Linux 10 certification will be available in November 2025.

Graphics

Graphics

Graphics	Type	Memory	TGP	AI TOPS (Peak)
Intel® Arc™ 130T GPU[1]	Integrated	Shared	Share CPU TDP	-
Intel® Arc™ 140T GPU[2]	Integrated	Shared	Share CPU TDP	-
NVIDIA® RTX PRO 500 Blackwell Generation 6GB GDDR7 Laptop GPU	Discrete	6GB GDDR7	35W	294 TOPS
NVIDIA® RTX PRO 1000 Blackwell Generation 8GB GDDR7 Laptop GPU	Discrete	8GB GDDR7	35W	440 TOPS

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.

Monitor Support

Monitor Support

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

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory

Up to 96GB (2x 48GB DDR5 CSODIMM)

Memory Slots

Two DDR5 SODIMM / CSODIMM slots, dual-channel capable

Memory Type**

- DDR5-5600 SODIMM, non-ECC, maximum transfer speeds of up to 5600 MT/s, 8GB / 16GB / 32GB memory modules are available
- DDR5-6400 CSODIMM, non-ECC, maximum transfer speeds of up to 6400 MT/s, 32GB / 48GB memory modules are available

Storage

Max Storage Support[1]

Up to one 2TB M.2 2280 Gen 5 Performance SSD

Storage Slot[2]

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® 5.0 x4 Performance[3]	512GB / 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).
[3] Gen 5 SSD on M.2 PCIe® 4.0 slot will run on PCIe® 4.0 protocols.

Removable Storage

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array, 360° far-field, Dolby Voice®

Camera**

- 5.0MP + IR with privacy shutter and Ultrasonic Human Presence Detection, fixed focus, temporal noise reduction
- 5.0MP + IR with privacy shutter, fixed focus, temporal noise reduction
- 5.0MP with privacy shutter, fixed focus, temporal noise reduction

Battery

Battery**

- 57Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)
- 75Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)

Power Adapter

Power Adapter[1]

100W USB-C® slim (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	400nits	Anti-glare	16:10	1200:1	45% NTSC	60Hz	85° / 85° / 85° / 85°	88% screen to body ratio, AICCP color calibration, Low Blue Light, DC dimming
16″	WUXGA (1920x1200)	Non-touch	IPS	500 nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	85° / 85° / 85° / 85°	88% screen to body ratio, AICCP color calibration, Low power,

											Low Blue Light, Eyesafe® 2.0 Certified, DC dimming
16″	WQUXGA (3840x2400)	Add-on Film Touch	OLED	400nits	Anti-reflection / Anti-smudge	16:10	100,000:1	100% DCI-P3	60Hz	85° / 85° / 85° / 85°	88% screen to body ratio, X-Rite® Factory Color Calibration, Low Blue Light, Eyesafe® 2.0 Certified

Touchscreen

- Add-on Film Touch, supports 10-point touch (WQUXGA display)
- Non-touch

Screen-to-Body Ratio

88%

Color Calibration**

- AICCP color calibration (WUXGA display)
- X-Rite® factory color calibration (WQUXGA display)

Input Device

Pen

No support

Keyboard

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

Keyboard Backlight

LED backlight

UltraNav™

3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67 x 115 mm (2.64 x 4.53 inches)

Mechanical

Dimensions (WxDxH)[1]

361.5 x 248.6 x 12.6 / 18.17 (front / rear), 25.35 (maximum) mm
14.24 x 9.79 x 0.49 / 0.71 (front / rear), 1.00 (maximum) inches

Weight[2]

Starting at 1.82 kg (4.01 lbs)

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 BE201, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4
- Intel® Wi-Fi® 7 BE201, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, Intel® vPro® technology support

WWAN**

- Wireless WAN upgradable to 4G (with antenna ready)
- Quectel EM160R-GL, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- No support

SIM Card

No physical SIM card inbox

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

NFC

No support

Notes:

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

Ports[1]

Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 2x Thunderbolt™ 4, with USB PD 3.0
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (GbE RJ-45)
- 1x Security keyhole

Optional Ports

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

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.

Docking

Docking

Various docking solutions supported via Thunderbolt™ or USB-C®.
For more compatible docking solutions, please visit Docking for ThinkPad® P16s Gen 4 (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

BIOS Security

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

Other Security

- Bottom cover tamper detection
- Camera privacy shutter
- (Optional) Ultrasonic Human Presence Detection for IR camera
- (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[1]

- Lenovo® HDMI® to VGA Monitor Adapter
- Lenovo® USB-C® to DisplayPort™ Adapter
- Lenovo® USB-C® to Ethernet Adapter (1Gbps)
- Lenovo® USB-C® to VGA Adapter

Notes:

[1] For more compatible accessory solutions, please visit Accessories for ThinkPad® P16s Gen 4 (Intel®).

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]

85% PCC recycled plastic used in key caps
90% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in the battery
90% PCC recycled plastic used in 100W adapters
80% CU recycled thermal block

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

- 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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