OVERVIEW



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

Notes:

- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 PRO 8040HS Series Processor. Supports up to 8 cores; up to 5.1GHz; TDP ratings of up to 29W

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	AI Engine
AMD Ryzen™ 5 PRO 8640HS	6	12	3.5GHz	4.9GHz	6MB L2 / 16MB L3	AMD Radeon™ 760M	AMD Ryzen™ AI
AMD Ryzen™ 7 PRO 8840HS	8	16	3.3GHz	5.1GHz	8MB L2 / 16MB L3	AMD Radeon™ 780M	AMD Ryzen™ AI

Operating System

Operating System

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 11 DG Windows® 10 Pro 64
- Fedora Linux[1]
- Ubuntu Linux LTS[2]
- Red Hat Enterprise Linux 9.2 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)
- No preload operating system

Notes:

[1] Fedora Linux will be available after September 6th, 2024.
[2] Ubuntu Linux LTS will be available after August 12th, 2024.

NPU

NPU

AMD Ryzen™ AI integrated in AMD Ryzen™ PRO 8000 processor

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
AMD Radeon™ 760M	Integrated	Shared	Share CPU TDP	DirectX® 12
AMD Radeon™ 780M	Integrated	Shared	Share CPU TDP	DirectX® 12

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via 2x Thunderbolt™ 4 and 1x HDMI®).
Max resolution for multiple display:
• 3x 3840x2160@60Hz (2x Thunderbolt™ 4 and 1x HDMI®)
Max resolution for single display:
• Thunderbolt™ 4 supports up to 7680x4320@60Hz (with DSC)
• HDMI® supports up to 3840x2160@60Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory

Up to 96GB (2x 48GB DDR5 SO-DIMM)

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Memory Type

DDR5-5600 non-ECC

Storage

Storage Support[1]

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

Storage 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	256GB / 512GB / 1TB	Opal 2.0
M.2 2280 SSD	PCIe® NVMe®, PCIe® 4.0 x4 Performance	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, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

- Dual-microphone array, 360° far-field, Dolby Voice®
- No microphone (for special bid model)

Camera**

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

Battery

Battery**

- Integrated Li-Polymer 39.3Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

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
- 65W USB-C® slim (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W 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
14″	WUXGA (1920x1200)	None	IPS	400nits	Anti-glare	16:10	800:1	45% NTSC	60Hz	85°/85°/85°/85°	85.73% screen to body ratio, 3M™ Dual Brightness Enhancement Film 5, DC dimming
14″	WUXGA (1920x1200)	Multi-touch	IPS	400nits	Anti-glare	16:10	800:1	45% NTSC	60Hz	85°/85°/85°/85°	85.73% screen to body ratio, 3M™ Dual Brightness Enhancement Film 5, Eyesafe® Certified 2.0, DC dimming
14″	WUXGA (1920x1200)	None	IPS	400nits	Anti-glare	16:10	1000:1	100% sRGB	60Hz	85°/85°/85°/85°	85.73% screen to body ratio, ICC Template color calibration, Low power, Eyesafe® Certified 2.0, DC dimming
14″	WUXGA (1920x1200)	Multi-touch	IPS	500nits	Anti-glare	16:10	1500:1	100% sRGB	60Hz	85°/85°/85°/85°	85.73% screen to body ratio, ThinkPad® Privacy Guard, DC dimming
14″	2.8K (2880x1800)	None	OLED	400nits	Anti-glare, anti-reflection	16:10	100,000:1	100% DCI-P3	120Hz	85°/85°/85°/85°	85.73% screen to body ratio, X-Rite® Pantone® Factory Color Calibration, Eyesafe® Certified 2.0, DisplayHDR™ True Black 500, Dolby Vision®, PWM dimming

Color Calibration**

- ICC Template color calibration (low power display)
- X-Rite® factory color calibration (2.8K OLED display)
- No color calibration

Touchscreen

- On-cell multi-touch, supports 10-point touch (selected display)
- Non-touch

Input Device

Keyboard

6-row, spill-resistant, multimedia Fn keys

Keyboard Backlight

- LED backlight
- Non-backlight

UltraNav™

3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch TrackPad, 61 x 115 mm (2.4 x 4.53 inches)

Mechanical

Dimensions (WxDxH)[1]

315.9 x 223.7 x 17.7 mm (12.44 x 8.81 x 0.70 inches)

Weight[2]

Starting at 1.31 kg (2.89 lbs)

Case Color

Black

Case Material**

- PC / 50% GF with 30% PCC + PC / 20% CF (top), PC / 40% GF with 45% PCC (bottom)
- PC / 50% GF with 30% PCC + PC / 20% CF (top), PC / 20% CF with 30% PCC (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, Realtek® RTL8111EPV, 1x RJ-45, supports Wake-on-LAN and AMD PRO Manageability

WLAN + Bluetooth®[1]

Qualcomm® Wi-Fi® 6E NFA725A, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3

WWAN

- Wireless WAN upgradable to 4G (with antenna ready)
- Wireless WAN upgradable to 4G or 5G (with antenna ready)
- Quectel EM160R-GL, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- Quectel RM520N-GL, 5G Sub-6 GHz, M.2 Card, with embedded eSIM functionality
- No support

SIM Card

No physical SIM card inbox

NFC

- Near Field Communication
- No support

Notes:

[1] Wi-Fi® 6E full features might be limited by country-level restrictions.
Wi-Fi® 6E is only enabled on Windows® 11 and operates as Wi-Fi® 6 with Windows® 10.
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 5Gbps / USB 3.2 Gen 1), Always On
- 2x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 1.4
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x Security keyhole

Optional Ports

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

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 side docking connector, Thunderbolt™ or USB-C®.
For more compatible docking solutions, please visit Docking for ThinkPad® P14s Gen 5 (AMD)

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0 (TCG certified, FIPS 140-2 certified) and Microsoft® Pluton TPM 2.0, one enabled at one time

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Smart Card Reader

- Smart card reader
- No smart card reader

Fingerprint Reader

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

BIOS Security

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

Other Security

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

MANAGEABILITY

System Management

System Management

AMD PRO Manageability

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 (1Gbps)
- 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]

85% PCC recycled plastic used in key caps
90% PCC recycled plastic used in speaker enclosure
97% PCC recycled plastic used in the battery
90% PCC recycled plastic used in 65W adapter

Notes:

[1] PCC: Post Consumer Content, recycled materials from customers.
FSC: Forest Stewardship Council.

CERTIFICATIONS

Green Certifications[1]

Green Certifications[2]

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered
- 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 dependent on system OS. Please visit epeat.net and energystar.gov for more information.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light

ISV Certifications

ISV Certifications

Please visit ISV certifications for Lenovo® Workstations

- Feature with ** means that only one offering listed under the feature is configured on selected models.

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