

**OVERVIEW**



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

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

#### Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Intel® vPro® Eligibility	Overall TOPS
Core Ultra 5 225H	14 (4 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.7GHz / E-core 1.3GHz / LP E-core 700MHz	P-core 4.9GHz / E-core 4.3GHz / LP E-core 2.5GHz	18MB Intel® Smart Cache	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 LP E-core)	14	P-core 2.4GHz / E-core 1.8GHz / LP E-core 700MHz	P-core 5.0GHz / E-core 4.4GHz / LP E-core 2.5GHz	18MB Intel® Smart Cache	Intel® Arc™ 140T GPU, up to 74 TOPS	Intel® AI Boost, up to 13 TOPS	Intel® vPro® Enterprise	Up to 94 TOPS
Core Ultra 7 255H	16 (6 P-core + 8 E-core + 2 LP E-core)	16	P-core 2.0GHz / E-core 1.5GHz / LP E-core 700MHz	P-core 5.1GHz / E-core 4.4GHz / LP E-core 2.5GHz	24MB Intel® Smart Cache	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 LP E-core)	16	P-core 2.2GHz / E-core 1.7GHz / LP E-core 700MHz	P-core 5.3GHz / E-core 4.5GHz / LP E-core 2.5GHz	24MB Intel® Smart Cache	Intel® Arc™ 140T GPU, up to 75 TOPS	Intel® AI Boost, up to 13 TOPS	Intel® vPro® Enterprise	Up to 97 TOPS
Core Ultra 9 285H	16 (6 P-core + 8 E-core + 2 LP E-core)	16	P-core 2.9GHz / E-core 2.7GHz / LP E-core 1GHz	P-core 5.4GHz / E-core 4.5GHz / LP E-core 2.5GHz	24MB Intel® Smart Cache	Intel® Arc™ 140T GPU, up to 77 TOPS	Intel® AI Boost, up to 13 TOPS	Intel® vPro® Enterprise	Up to 99 TOPS

### 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](#))<sup>[1]</sup>

Notes:

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

### Graphics

#### Graphics

Graphics	Type	Memory	AI TOPS (Peak)
Intel® Arc™ 130T GPU	Integrated	Shared	-

Intel® Arc™ 140T GPU	Integrated	Shared	-
NVIDIA® RTX PRO 500 Blackwell Generation 6GB GDDR7 Laptop GPU	Discrete	6GB GDDR7	294 TOPS (FP4 TOPS with Sparsity)
NVIDIA® RTX PRO 1000 Blackwell Generation 8GB GDDR7 Laptop GPU	Discrete	8GB GDDR7	440 TOPS (FP4 TOPS with Sparsity)

## 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<sup>[1]</sup>

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

### Storage Slot<sup>[2]</sup>

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 <sup>[3]</sup>	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<sup>[1]</sup>**

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
14.5"	WUXGA (1920x1200)	Non-touch	IPS	400 nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	85° / 85° / 85° / 85°	88% screen to body ratio, AICCP color calibration, Low Blue Light, Eyesafe® 2.0 Certified, DC dimming
14.5"	WUXGA (1920x1200)	Add-on Film Touch	IPS	400 nits	Anti-glare Anti-fingerprint	16:10	1000:1	45% NTSC	60Hz	85° / 85° / 85° / 85°	88% screen to body ratio, AICCP color calibration, Low Blue Light, Eyesafe® 2.0 Certified, DC dimming
14.5"	WQXGA (2560x1600)	Non-touch	IPS	400 nits	Anti-glare	16:10	1500:1	100% sRGB	90Hz	85° / 85° / 85° / 85°	88% screen to body ratio, X-Rite® Factory Color Calibration, Low Blue Light,

											Eyesafe® 2.0 Certified, DC dimming
14.5"	3K (3072x1920)	Non-touch	IPS	500 nits	Anti-glare	16:10	1500:1	100% DCI-P3	120Hz	85° / 85° / 85° / 85°	88% screen to body ratio, TCON Color Calibration Low Blue Light, Eyesafe® 2.0 Certified

**Touchscreen**

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

**Screen-to-Body Ratio**

88%

**Color Calibration\*\***

- AICCP color calibration (WUXGA display)
- TCON factory color calibration (3K display)
- X-Rite® factory color calibration (WQXGA display)

**Input Device**

**Pen**

No support

**Keyboard**

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

**Keyboard Backlight**

LED backlight

**UltraNav™**

3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch TrackPad, 60 x 115 mm (2.36 x 4.53 inches)

**Mechanical**

**Dimensions (WxDxH)<sup>[1]</sup>**

325.5 x 227.6 x 11.2 / 15.1 (front / rear), 21.7 (maximum) mm  
12.81 x 8.96 x 0.44 / 0.59 (front / rear), 0.85 (maximum) inches

**Weight<sup>[2]</sup>**

Models	Weight
Models with integrated graphics	Starting at 1.60 kg (3.53 lbs)
Models with discrete graphics	Starting at 1.64 kg (3.61 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<sup>®</sup>\*\*<sup>[1]</sup>**

- Intel<sup>®</sup> Wi-Fi<sup>®</sup> 7 BE201, 802.11be 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.4
- Intel<sup>®</sup> Wi-Fi<sup>®</sup> 7 BE201, 802.11be 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.4, Intel<sup>®</sup> vPro<sup>®</sup> technology support<sup>[2]</sup>

**WWAN**

No support

**SIM Card**

No physical SIM card inbox

**Ethernet\*\***

- Gigabit Ethernet, Intel<sup>®</sup> Ethernet Connection I219-LM (vPro<sup>®</sup> models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel<sup>®</sup> Ethernet Connection I219-V (non-vPro<sup>®</sup> models), 1x RJ-45, supports Wake-on-LAN

**NFC**

No support

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**Notes:**

<sup>[1]</sup> Wi-Fi<sup>®</sup> operation (including Wi-Fi<sup>®</sup> 6, Wi-Fi<sup>®</sup> 6E, Wi-Fi<sup>®</sup> 7, etc.) is subject to the regulatory requirements of each country. Bluetooth<sup>®</sup> may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

<sup>[2]</sup> Intel<sup>®</sup> vPro<sup>®</sup> 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<sup>®</sup> support information, please refer to the System Management section.

**Ports<sup>[1]</sup>****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<sup>™</sup> 4, with USB PD 3.0
- 1x HDMI<sup>®</sup> 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (GbE RJ-45)
- 1x Kensington<sup>®</sup> Nano Security Slot<sup>™</sup>

**Optional Ports**

1x Smart card reader

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**Notes:**

<sup>[1]</sup> 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<sup>®</sup> 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

USB4<sup>®</sup> 40Gbps (USB 40Gbps): 40 Gbit/s;

Thunderbolt<sup>™</sup> 3/4: 40 Gbit/s.

Thunderbolt<sup>™</sup> 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<sup>™</sup> or USB-C<sup>®</sup>.

For more compatible docking solutions, please visit [Docking for ThinkPad<sup>®</sup> P14s Gen 6 \(Intel<sup>®</sup>\)](#)

**SECURITY & PRIVACY****Security****Security Chip**

Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

**Physical Locks**

Kensington<sup>®</sup> Nano Security Slot<sup>™</sup>, 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<sup>[1]</sup>**

- Intel® vPro® Enterprise
- 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.

## 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<sup>[1]</sup>**

- 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® P14s Gen 6 \(Intel®\)](#).

## OPERATING REQUIREMENTS

### Operating Environment

**Temperature<sup>[1]</sup>**

- 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<sup>[1]</sup>

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<sup>[1]</sup>

#### Green Certifications<sup>[2]</sup>

- 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](https://epeat.net) and [energystar.gov](https://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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