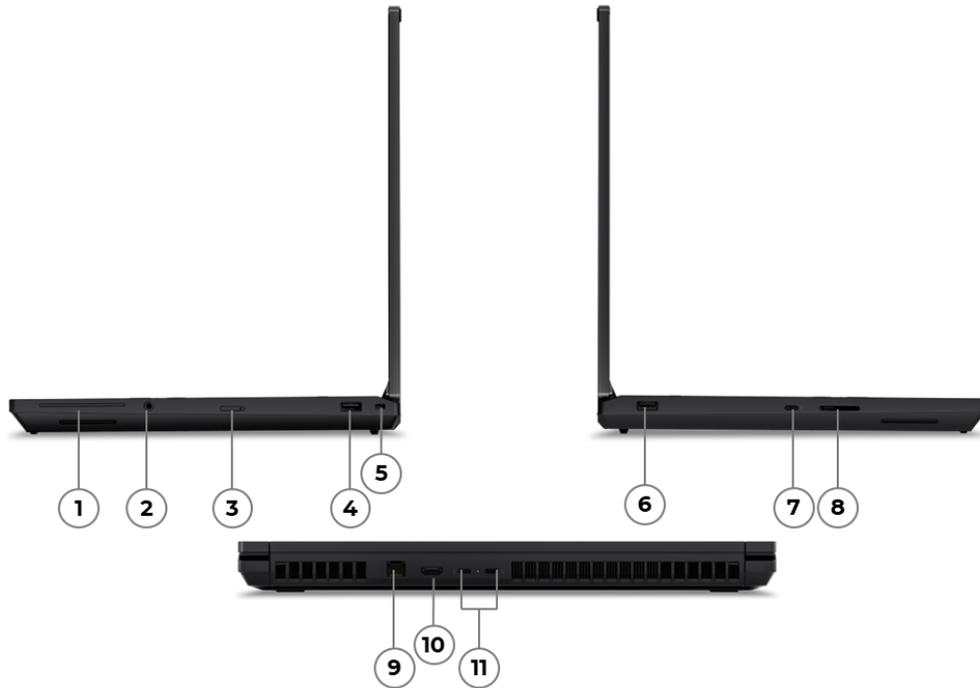


OVERVIEW



1. Smart card reader *	7. Thunderbolt 4
2. 1x headphone / microphone combo jack (3.5mm)	8. SD Express 8.0 card reader
3. Nano-SIM card slot *	9. 2.5GbE (RJ-45)
4. USB-A (USB 10Gbps), Always On	10. HDMI
5. Kensington Nano Security Slot	11. 2x Thunderbolt 5
6. USB-A (USB 10Gbps)	

Notes:

- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

Intel® HX Series Core Ultra 5 / 7 / 9 Processor (Series 2); supports up to 24 cores; up to 5.5GHz

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Intel® vPro® Eligibility	Overall TOPS
Core Ultra 5 245HX	14 (6 P-core + 8 E-core)	14	P-core 3.1GHz / E-core 2.6GHz	P-core 5.1GHz / E-core 4.5GHz	24MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	Intel® vPro® Enterprise	Up to 27 TOPS
Core Ultra 7 255HX	20 (8 P-core + 12 E-core)	20	P-core 2.4GHz / E-core 1.8GHz	P-core 5.2GHz / E-core 4.5GHz	30MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	-	Up to 33 TOPS
Core Ultra 7 265HX	20 (8 P-core + 12 E-core)	20	P-core 2.6GHz / E-core 2.3GHz	P-core 5.3GHz / E-core 4.6GHz	30MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	Intel® vPro® Enterprise	Up to 33 TOPS
Core Ultra 9 275HX	24 (8 P-core + 16 E-core)	24	P-core 2.7GHz / E-core 2.1GHz	P-core 5.4GHz / E-core 4.6GHz	36MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	-	Up to 36 TOPS
Core Ultra 9 285HX	24 (8 P-core + 16 E-core)	24	P-core 2.8GHz / E-core 2.1GHz	P-core 5.5GHz / E-core 4.6GHz	36MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	Intel® vPro® Enterprise	Up to 36 TOPS

AI (Artificial Intelligence)

AI PC Category

AI PC

NPU

Integrated Intel® AI Boost, up to 13 TOPS

Operating System

Operating System**

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- No preload operating system

Graphics

Graphics**

Graphics	Type	Memory	AI TOPS (Peak)
NVIDIA® GeForce RTX™ 5080 16GB GDDR7 Laptop GPU	Discrete	16GB GDDR7	1334 TOPS
NVIDIA® GeForce RTX™ 5090 24GB GDDR7 Laptop GPU	Discrete	24GB GDDR7	1824 TOPS

Monitor Support

Monitor Support

Supports up to 5 independent displays (native display and 4 external monitors via Thunderbolt™ 5, Thunderbolt™ 4, and HDMI®).

Max resolution for multiple external display:

- 3x 3840x2160@240Hz or 7680x4320@60Hz (Thunderbolt™ 5 and Thunderbolt™ 4)
- 1x 7680x4320@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® WM880 chipset

Memory

Max Memory

- Models with ECC memory: Up to 128GB (4x 32GB SODIMM DDR5-5600 ECC)
- Models with Non-ECC memory: Up to 192GB (4x 48GB SODIMM DDR5-5600 Non-ECC)

Memory Slots

Four DDR5 SODIMM slots, dual-channel capable

Memory Type**^[1]

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

Memory Protection

ECC on models with ECC DIMMs

Notes:

^[1] System comes with DDR5-5600 memory and will run at lower speed due to platform limitations: 4x 32GB / 4x 48GB configurations run at 4000 MT/s. Other configurations run at 4400 MT/s.

Storage

Max Storage Support^[1]

Up to three M.2 2280 Gen 5 Performance SSD; up to 12TB, 4TB each

Storage Slot^[2]

Three M.2 slots

- One M.2 2280 PCIe® 5.0 x4 slot
- Two M.2 2280 PCIe® 4.0 x4 slots

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 / 4TB	Opal 2.0

RAID

RAID 0/1/5 support

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

SD Express 8.0 card reader

Multi-Media

Audio Chip

SoundWire®, Cirrus Logic® CS42L43 codec

Speakers

Stereo speakers, 2W 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
- 5.0MP, with privacy shutter, fixed focus, temporal noise reduction
- No camera (for special bid model)

Battery

Battery

99.9Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)

Power Adapter

Power Adapter^[1]

- 180W 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°	82% screen to body ratio, X-Rite® Factory Color Calibration, Low power, Low Blue Light, Eyesafe® 2.0 Certified, 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°	82% screen to body ratio, DisplayHDR™ 600, Dolby Vision®, Eyesafe® Certified 2.0, TÜV Low Blue Light, X-Rite® Factory Color Calibration, PWM dimming
16"	WQUXGA (3840x2400)	Non-touch	IPS	800nits	Anti-glare	16:10	1500:1	100% DCI-P3	60Hz	85° / 85° / 85° / 85°	82% screen to body ratio, DisplayHDR™

- Wireless WAN upgradable to 5G (with antenna ready)
- Rolling Wireless RW350R-GL, 5G Sub-6 GHz, M.2 card, with embedded eSIM functionality
- No support

SIM Card

No physical SIM card inbox

Ethernet**

- 2.5GbE, Intel® Ethernet Controller I226-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- 2.5GbE, Intel® Ethernet Controller I226-V (non-vPro® models), 1x RJ-45, supports Wake-on-LAN

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
- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 2x Thunderbolt™ 5, with DisplayPort™ 2.1 and USB PD 3.1, 180W input / 15W output
- 1x Thunderbolt™ 4, with DisplayPort™ 2.1 and USB PD 3.1, 180W input / 15W output
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (2.5GbE RJ-45)
- 1x SD Express 8.0 card reader
- 1x Kensington® Nano Security Slot™

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® P16 Gen 3 / T16g Gen 3](#)

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

- Camera privacy shutter (camera models)
- (Optional) Computer Vision-based User Presence Sensing on Image Signal Processor (ISP)

MANAGEABILITY

System Management

System Management^[1]

- 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^[1]

- Lenovo® HDMI® to VGA Monitor Adapter
- Lenovo® USB-C® to DisplayPort™ Adapter
- Lenovo® USB-C® to VGA Adapter

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad® T16g Gen 3](#).

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]

50% Recycled Aluminum A Cover
90% Recycled Magnesium Aluminum C Cover
55% Recycled Aluminum D Cover
85% PCC Plastic Key Caps (non-Black Keyboard)
90% PCC Plastic Speaker Enclosure
97% PCC Plastic Battery Pack Enclosure
90% PCC Plastic 180W AC Adapter
Plastic free packaging with 90% recycled and/ or FSC certified content (standard/bulk)

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

• 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.

• Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.

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