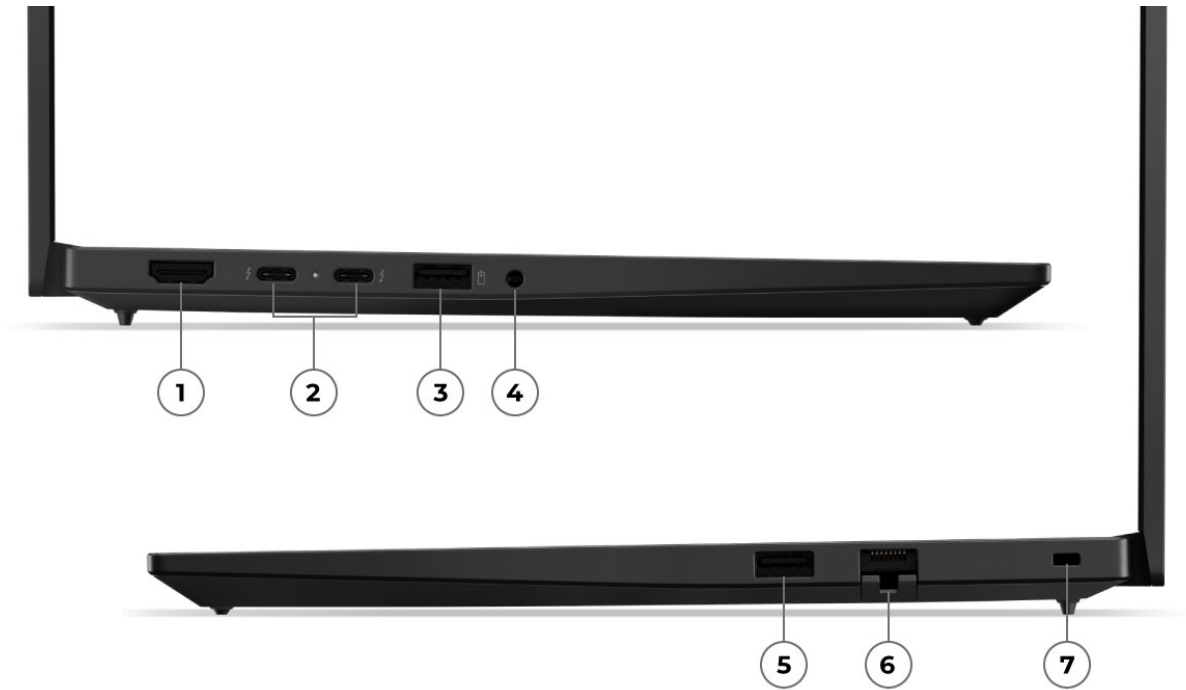


## OVERVIEW



1. HDMI	5. USB-A (USB 5Gbps)
2. 2x Thunderbolt 4	6. Ethernet (RJ-45)
3. USB-A (USB 10Gbps), Always On	7. Kensington Nano Security Slot
4. Headphone / microphone combo jack (3.5mm)	

Notes:

- Items with \* are only available on selected models

## PERFORMANCE

### Processor

#### Processor Family

Intel® Core™ Ultra 5 / 7 Processor (Series 3) - Panther Lake (PTL)

#### Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Intel® vPro® Eligibility
Core Ultra 5 325 (PTL)	8 (4 P-core + 4 LP E-core)	8	P-core 2.1GHz / LP E-core 1.6GHz	P-core 4.5GHz / LP E-core 3.4GHz	12MB Intel® Smart Cache	Intel® Graphics, up to 40 TOPS	Up to 47 TOPS	-
Core Ultra 5 332 (PTL)	6 (2 P-core + 4 LP E-core)	6	P-core 2.5GHz / LP E-core 1.9GHz	P-core 4.4GHz / LP E-core 3.3GHz	12MB Intel® Smart Cache	Intel® Graphics, up to 18 TOPS	Up to 46 TOPS	Intel® vPro® Platform
Core Ultra 5 336H (PTL)	12 (4 P-core + 4 E-core + 4 LP E-core)	12	P-core 1.9GHz / E-core 1.5GHz / LP E-core 1.5GHz	P-core 4.6GHz / E-core 3.4GHz / LP E-core 3.2GHz	18MB Intel® Smart Cache	Intel® Graphics, up to 37 TOPS	Up to 47 TOPS	Intel® vPro® Platform
Core Ultra 7 355 (PTL)	8 (4 P-core + 4 LP E-core)	8	P-core 2.3GHz / LP E-core 1.7GHz	P-core 4.7GHz / LP E-core 3.5GHz	12MB Intel® Smart Cache	Intel® Graphics, up to 40 TOPS	Up to 49 TOPS	-
Core Ultra 7 356H (PTL)	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	-

### AI (Artificial Intelligence)

#### AI PC Category

Copilot+ PC (Panther Lake)<sup>[1]</sup>

#### NPU

Up to 50 TOPS

Notes:

[1] Copilot+ PCs have at least 16GB RAM, 256GB storage, and a NPU that runs 40+ TOPs to run the latest AI tools build-in latest Windows® 11 to accelerate productivity and creativity.

### Operating System

#### Operating System\*\*

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

### Graphics

#### Graphics

Graphics	Type	Memory	Key Features
Intel® Graphics	Integrated	Shared	DirectX® 12 Ultimate

### Monitor Support

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

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)

- HDMI® supports up to 4096x2160@60Hz
- Thunderbolt™ supports up to 7680x4320@60Hz<sup>[2]</sup>

## Notes:

[1] Refresh rates >60hz also supported, however max resolution will be limited.

[2] 8K resolution support needs 2 display pipes. That is, simultaneous display number will "-1" when 8K resolution displayed.

## Chipset

### Chipset

Intel® SoC (System on Chip) platform

## Memory

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

Panther Lake: Up to 64GB DDR5-5600<sup>[2]</sup>

### Memory Slots

Panther Lake: two DDR5 SODIMM slots, dual-channel capable

### Memory Type

DDR5-5600

## Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

[2] The 64GB memory is exclusively available for special bid only.

## Storage

### Max Storage Support<sup>[1]</sup>

Panther Lake:

up to two drives, 2x M.2 SSD

- M.2 2242 SSD up to 1TB
- M.2 2280 SSD up to 1TB<sup>[2]</sup>

### Storage Slot<sup>[3]</sup>

Panther Lake: two M.2 slots

- One M.2 2242 PCIe® 4.0 x4 slot
- One M.2 2280 PCIe® 4.0 x4 slot

### Storage Type

Disk Type	Interface	Offering	Security
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB	Opal 2.0

## Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.

[2] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

[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).

## Removable Storage

### Card Reader

No card reader

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Senary SN6147 codec

### Speakers

Stereo speakers, 2W x2, Dolby Atmos®, audio by HARMAN

### Microphone

Dual-microphone array, 360° far-field, smart noise-cancelling

#### Camera\*\*

- 5.0MP, with privacy shutter, fixed focus, temporal noise reduction
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus, temporal noise reduction
- HD 720p, with privacy shutter, fixed focus

## Battery

#### Battery\*\*

- 48Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)<sup>[1]</sup>
- 64Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)<sup>[2]</sup>

#### Battery Life<sup>[3]</sup>

Configuration 1 (max battery life)

MobileMark® 30: up to 17.81 hr with 616 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 18.76 hr / 33.41 hr @200nits

Local video playback: up to 30.41 hr @150nits

Configuration 2

MobileMark® 30: up to 14.83 hr with 1070 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 15.83 hr / 29.11 hr @200nits

Local video playback: up to 28.16 hr @150nits

Notes:

[1], [2] Rapid charge is only guaranteed when the computer is turned off or in standby mode or in hibernation mode. When the computer is powered on, the Charge Time will vary depending on system power consumption and AC adapter power.

[3] Configuration 1: WUXGA (non-touch), Intel® Core™ Ultra 5 332, 16GB DDR5-5600, Win 11, 64Wh battery, best power efficiency power mode

Configuration 2: WUXGA (non-touch), Intel® Core™ Ultra 5 336H, 32GB DDR5-5600, Win 11, 64Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark® 30](#), JEITA 3.0, continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level), or Google Power Load Test (PLT) battery-life benchmark tests.

Actual battery life will vary and depends on many factors such as product configuration, software, wireless functionality, power management settings, and screen brightness.

The maximum capacity of the battery will decrease with time, ambient temperature and use.

Refer to [Microsoft® link](#) for more information about the Windows® Performance power slider.

## Power Adapter

#### Power Adapter\*\*<sup>[1]</sup>

- 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, wall-mount) AC adapter, supports PD 3.0, 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
14"	WUXGA (1920x1200)	Non-touch	IPS <sup>[1]</sup>	400nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Rheinland® Low Blue Light

											(Software Solution)
14"	WUXGA (1920x1200)	In-cell touch	IPS <sup>[2]</sup>	400nits	Anti-glare	16:10	1200:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Rheinland® Low Blue Light (Hardware Solution)
14"	2.8K (2880x1800)	Non-touch	IPS <sup>[3]</sup>	500nits	Anti-glare	16:10	1500:1	100% sRGB	120Hz VRR	89° / 89° / 89° / 89°	TÜV Rheinland® Low Blue Light (Hardware Solution)

**Touchscreen**

- In-cell multi-touch, supports 10-point touch
- Non-touch

**Screen-to-Body Ratio**

90%

Notes:

[1], [2], [3] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

**Input Device**

**Pen**

No support

**Keyboard**

6-row, spill-resistant, multimedia Fn keys, key travel 1.5mm / 1.35mm (Fn row & G/H/B), Copilot key

**Keyboard Backlight**

- LED backlight
- Non-backlight

**UltraNav™**

TrackPoint® pointing device, double-tap to open the TrackPoint® Quick Menu  
Mylar® surface multi-touch 3-button Trackpad, 60 x 115 mm (2.36 x 4.53 inches)

**Mechanical**

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

Models	Dimensions
Models with aluminium (top) and aluminium (bottom)	313 x 220.3 x 10.1/15.25 (front/rear), 19.7 (maximum) mm; 12.32 x 8.67 x 0.40/0.60 (front/rear), 0.78 (maximum) inches
Models with aluminium (top) and PC-ABS (bottom)	313 x 220.3 x 10.1/15.25 (front/rear), 20.5 (maximum) mm; 12.32 x 8.67 x 0.40/0.60 (front/rear), 0.81 (maximum) inches

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

Models	Weight
Panther Lake	Starting at 1.34 kg (2.95 lbs)

**Case Color\*\***

- Black
- Grey

**Case Material\*\***

- Aluminium (top), PC-ABS (bottom)
- 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> 6E AX211, 802.11ax 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.3, M.2 card
- Wi-Fi<sup>®</sup> 7, 802.11be 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.4, M.2 card
- Realtek<sup>®</sup> Wi-Fi<sup>®</sup> 7 RTL8922AE, 802.11be 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.4, M.2 card<sup>[2]</sup>
- Intel<sup>®</sup> Wi-Fi<sup>®</sup> 7 BE211, 802.11be 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.4 (Bluetooth<sup>®</sup> 6.0 hardware ready), Intel<sup>®</sup> vPro<sup>®</sup> technology support, M.2 card<sup>[3]</sup>
- Intel<sup>®</sup> Wi-Fi<sup>®</sup> 7 BE213, 802.11be 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.4, M.2 card (Bluetooth<sup>®</sup> 6.0 hardware ready)

#### 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

Notes:

[1] 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.

[2] Realtek<sup>®</sup> RTL8922AE is for Japan only.

[3] 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)
- 1x USB-A (USB 10Gbps), Always On
- 1x HDMI<sup>®</sup> 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 2x Thunderbolt<sup>™</sup> 4, with USB PD 15-65W and DisplayPort<sup>™</sup> 2.1

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

For more compatible docking solutions, please visit [Docking for ThinkPad<sup>®</sup> E14 Gen 8 \(Intel<sup>®</sup>\)](#)

## SECURITY & PRIVACY

### Security

#### ThinkShield

ThinkShield is a comprehensive security solution that encompasses hardware, software, and supply chain components. For more details, visit [here](#)

**Security Chip**

Discrete TPM 2.0, TCG certified, FIPS 140-3 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
- No fingerprint reader

**BIOS Security**

- Certificate-based BIOS authentication
- FIDO (Fast Identity Online) authentication
- NVMe® password
- Power-on password
- Supervisor password
- System management password
- Self-healing BIOS

**Other Security**

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

## MANAGEABILITY

### System Management

**System Management<sup>[1]</sup>**

- Intel® vPro® Enterprise<sup>[2]</sup>
- 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.

[2] Intel® vPro® offers a superset of DASH's defined capabilities.

## SERVICE

### Warranty

**Base Warranty\*\***

- 1-year mail-in service
- 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
- No base warranty

## ACCESSORIES

### Bundled Accessories

**Bundled Accessories<sup>[1]</sup>**

- Lenovo® 15.6" laptop casual toploader, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad® E14 Gen 8 \(Intel®\)](#).

## OPERATING REQUIREMENTS

## Operating Environment

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

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping package: -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>

50% recycled aluminium on top cover  
50% PCC recycled plastic used in display panel frame  
50% recycled aluminium on metal bottom cover  
50% PCC recycled plastic used in PC-ABS bottom cover  
90% PCC recycled plastic used in battery pack enclosure  
85% PCC recycled plastic used in key caps (backlight)  
70% PCC recycled plastic used in key caps (non-backlight)  
90% PCC recycled plastic used in speaker enclosure  
90% PCC recycled plastic used in standard 65W adapter  
FSC carton and accessory box  
Bamboo fiber NB bag and screen sheet  
Paper cushion and sealing label

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<sup>[3]</sup>
- ErP Lot 6/26
- 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](http://epeat.net) and [energystar.gov](http://energystar.gov) for more information.

[3] EPEAT™ is registered where applicable, please visit [epeat.net](http://epeat.net) for registration status by country.

### Other Certifications

#### Mil-Spec Test

Work in progress

#### Other Certifications

- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)

- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)<sup>[1]</sup>

Notes:

[1] TÜV Rheinland® Low Blue Light (Software Solution) certification is optional and only available on the models with preloaded OS.

- 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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