

OVERVIEW



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

Notes:

- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

- Intel® Core™ 3 / 5 / 7 Processor (Series 3) - Wildcat Lake (WCL)
- 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 5 315 (WCL) | 6 (2 P-core + 4 LP E-core) | 6 | P-core 1.5GHz / LP E-core 1.4GHz | P-core 4.4GHz / LP E-core 3.3GHz | 6MB Intel® Smart Cache | Intel® Graphics, up to 18 TOPS | Up to 15 TOPS | - |
| Core 5 320 (WCL) | 6 (2 P-core + 4 LP E-core) | 6 | P-core 1.5GHz / LP E-core 1.4GHz | P-core 4.6GHz / LP E-core 3.4GHz | 6MB Intel® Smart Cache | Intel® Graphics, up to 20 TOPS | Up to 16 TOPS | - |
| 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**

- AI PC (Wildcat Lake)^[1]
- Copilot+ PC (Panther Lake)^[2]

NPU

Up to 50 TOPS

Notes:

[1] AI PCs have a NPU capable of 10+ TOPs to run the Copilot assistant by pressing the Microsoft® Copilot key or using Win + C.

[2] 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
- Ubuntu Linux^[1]

- No preload operating system

Notes:

[1] Some features may not be supported on the system with Linux preload, including but not limited to Intel® RST RAID, MIPI computer vision camera, WWAN, Human Presence Detection, etc.

Graphics

Graphics

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

Monitor Support

Monitor Support^[1]

- Panther Lake: supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)
 - HDMI® supports up to 3840x2160@60Hz
 - Thunderbolt™ supports up to 7680x4320@60Hz^[2]
- Wildcat Lake: supports up to 3 independent displays (native display and 2 external monitors via HDMI® and Thunderbolt™)
 - HDMI® supports up to 3840x2160@60Hz
 - Thunderbolt™ supports up to 3840x2160@60Hz

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^[1]

- Panther Lake: Up to 64GB DDR5-5600^[2]
- Wildcat Lake: Up to 32GB DDR5-5600

Memory Slots

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

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^[1]

- Wildcat Lake:
 - One drive, up to 1TB M.2 2242 SSD
- Panther Lake:
 - up to two drives, 2x M.2 SSD
 - M.2 2242 SSD up to 1TB
 - M.2 2280 SSD up to 1TB^[2]

Storage Slot^[3]

- Wildcat Lake: one M.2 2242 PCIe® 4.0 x4 slot
- 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 |
| M.2 2242 SSD | PCIe® NVMe®, PCIe® 4.0 x4 | 512GB / 1TB | - |

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)^[1]
- 64Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)^[2]

Battery Life^[3]

Configuration 1 (max battery life)

MobileMark® 30: up to 16.86 hr with 626 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 18.71 hr / 32.01 hr @200nits

Local video playback: up to 32.83 hr @150nits

Configuration 2

MobileMark® 30: up to 14.25 hr with 1056 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 18.83 hr / 32.01 hr @200nits

Local video playback: up to 32.66 hr @150nits

Configuration 3

MobileMark® 30: up to 15.16 hr with 927 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 16.93 hr / 27.81 hr @200nits

Local video playback: up to 28.58 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 (touch), Intel® Core™ Ultra 5 336H, 32GB DDR5-5600, Win 11, 64Wh battery, best power efficiency power mode

Configuration 3: WUXGA (non-touch), Intel® Core™ 3 304, 8GB 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**^[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, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 100W USB-C® slim (3-pin) 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 |
|------|-------------------|---------------|--------------------|------------|------------|--------------|----------------|-------------|--------------|-------------------------|----------------------------------------------------------------------------|
| 16" | WUXGA (1920x1200) | Non-touch | IPS ^[1] | 400nits | Anti-glare | 16:10 | 1000:1 | 45% NTSC | 60Hz | 89° / 89° / 89° / 89° | AICCP color calibration, TÜV Rheinland® Low Blue Light (Software Solution) |
| 16" | WUXGA (1920x1200) | In-cell touch | IPS ^[2] | 400nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 120Hz VRR | 89° / 89° / 89° / 89° | TÜV Rheinland® Low Blue Light (Hardware Solution) |
| 16" | WQXGA (2560x1600) | Non-touch | IPS ^[3] | 400nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 120Hz VRR | 89° / 89° / 89° / 89° | Eyesafe® Certified 2.0 |

Touchscreen

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

Screen-to-Body Ratio

90.7%

Color Calibration

- AICCP color calibration (selected WUXGA display)
- No color calibration

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, numeric keypad, 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, 67 x 115 mm (2.64 x 4.53 inches)

Mechanical

Dimensions (WxDxH)^[1]

| Models | Dimensions |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Models with aluminium (top) and aluminium (bottom) | 356 x 249 x 10.1/17.05 (front/rear), 21.15 (maximum) mm; 14.01 x 9.80 x 0.40/0.67 (front/rear), 0.83 (maximum) inches |
| Models with aluminium (top) and PC-ABS (bottom) | 356 x 249 x 10.1/17.05 (front/rear), 21.95 (maximum) mm; 14.01 x 9.8 x 0.40/0.67 (front/rear), 0.86 (maximum) inches |

Weight^[2]

| Models | Weight |
|--------------|--------------------------------|
| Panther Lake | Starting at 1.63 kg (3.59 lbs) |
| Wildcat Lake | Starting at 1.71 kg (3.77 lbs) |

Case Color

Black

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®**^[1]

- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card
- Realtek® Wi-Fi® 7 RTL8922AE, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card
- Intel® Wi-Fi® 7 BE211, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4 (Bluetooth® 6.0 hardware ready), Intel® vPro® technology support, M.2 card^[2]
- Intel® Wi-Fi® 7 BE213, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card (Bluetooth® 6.0 hardware ready)

WWAN

No support

SIM Card

No SIM card included (nano-SIM card slot available)

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] 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 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2), Always On
- 2x Thunderbolt™ 4, with USB PD 15-65W and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)

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™ / USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkPad® E16 Gen 4 \(Intel®\)](#)

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
- More BIOS security features (Panther Lake), please visit [BIOS Simulator](#)

Other Security

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

MANAGEABILITY

System Management

System Management^[1]

- Intel® vPro® Enterprise^[2]
- 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^[1]

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

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad® E16 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 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^[1]

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^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- 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 and energystar.gov for more information.

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

Other Certifications

Mil-Spec Test

Work in progress

Other Certifications

- (Optional) Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)^[1]

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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Copilot+PC



Copilot+PC



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