

## OVERVIEW



1. Nano-SIM card slot (WWAN model) *	6. HDMI
2. Thunderbolt 4	7. USB-A (USB 5Gbps), Always On
3. USB-A (USB 5Gbps)	8. USB-C (USB 20Gbps), with USB PD 3.0 & DP 1.4
4. Headphone / microphone combo jack (3.5mm)	9. Kensington Nano Security Slot
5. Pen slot *	10. Smart card reader *

**Notes:**

- Items with \* are only available on selected models

## PERFORMANCE

### Processor

#### Processor Family

Intel® U Series Core Ultra 5 / 7 Processor (Series 1)

#### Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	Intel® vPro® Eligibility	NPU
Core Ultra 7 165U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.7GHz / E-core 1.2GHz / LP E-core 700MHz	P-core 4.9GHz / E-core 3.8GHz / LP E-core 2.1GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® vPro® Enterprise	Intel® AI Boost
Core Ultra 5 125U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.3GHz / E-core 800MHz / LP E-core 700MHz	P-core 4.3GHz / E-core 3.6GHz / LP E-core 2.1GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® vPro® Essentials	Intel® AI Boost
Core Ultra 7 155U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.7GHz / E-core 1.2GHz / LP E-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LP E-core 2.1GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® vPro® Essentials	Intel® AI Boost
Core Ultra 5 135U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.6GHz / E-core 1.1GHz / LP E-core 700MHz	P-core 4.4GHz / E-core 3.6GHz / LP E-core 2.1GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® vPro® Enterprise	Intel® AI Boost

### AI (Artificial Intelligence)

#### NPU

Integrated Intel® AI Boost, up to 11 TOPS

### Operating System

#### Operating System\*\*

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 11 DG Windows® 10 Pro 64<sup>[1]</sup>
- Ubuntu Linux<sup>[2]</sup>
- No preload operating system

Notes:

[1] Windows® 11 DG Windows® 10 Pro 64 is for special bid only.

[2] 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	TGP	Key Features
Intel® Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1

### Monitor Support

#### Monitor Support

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

- HDMI® supports up to 4K@60Hz
- USB-C® supports up to 5K@120Hz
- Thunderbolt™ supports up to 8K@60Hz

### Chipset

**Chipset**

Intel® SoC (System on Chip) platform

**Memory****Max Memory**

- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

**Memory Slots**

Memory soldered to systemboard, no slots, dual-channel

**Memory Type<sup>[1]</sup>**

LPDDR5-6400

Notes:

<sup>[1]</sup> Installed memory is actually LPDDR5-7500 but runs as LPDDR5-6400 due to platform limitation.

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

One drive, up to 1TB M.2 2280 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

Notes:

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

<sup>[2]</sup> 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, Realtek® ALC3287 codec

**Speakers**

Stereo speakers, 2W x2, Dolby Audio™

**Microphone**

Dual-microphone array, far-field, Dolby Voice®

**Camera\*\***

- Front HD 720p, with privacy shutter, fixed focus
- Front HD 720p, with privacy shutter, fixed focus; rear World Facing 5.0-megapixel, autofocus
- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus, temporal noise reduction
- Front FHD 1080p + IR hybrid, with privacy shutter, fixed focus, temporal noise reduction; rear World Facing 5.0-megapixel, autofocus

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

46Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

**Battery Life<sup>[2]</sup>**

## Configuration 1 (max battery life)

MobileMark® 25: up to 11.03 hr with 564 performance score @250nits  
 JEITA-BAT 3.0 (Video/Idle): up to 10.3 hr / 22.3 hr @200nits  
 Local video playback: up to 18.34 hr @150nits

## Alternate configuration 2

MobileMark® 25: up to 9.8 hr with 604 performance score @250nits  
 JEITA-BAT 3.0 (Video/Idle): up to 9.5 hr / 14.66 hr @200nits  
 Local video playback: up to 14.15 hr @150nits

## Alternate configuration 3

MobileMark® 25: up to 9.6 hr with 628 performance score @250nits  
 JEITA-BAT 3.0 (Video/Idle): up to 8.96 hr / 12.85 hr @200nits  
 Local video playback: up to 13.03 hr @150nits

## Notes:

[1] 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.

[2] Configuration 1 (max battery life): WUXGA (touch), Intel® Core™ Ultra 5 125U, 8GB LPDDR5, Win 11, 46Wh battery, best power efficiency power mode

Alternate configuration 2: WUXGA (touch), Intel® Core™ Ultra 5 135U, 16GB LPDDR5, Win 11, 46Wh battery, best power efficiency power mode

Alternate configuration 3: WUXGA (touch), Intel® Core™ Ultra 7 165U, 32GB LPDDR5, Win 11, 46Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark® 25](#), 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 depending 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>

- 45W USB-C® (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 45W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 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
13.3"	WUXGA (1920x1200)	Multi-touch	IPS <sup>[1]</sup>	300nits	Anti-reflection, anti-smudge	16:10	1000:1	100% sRGB	60Hz	85° / 85° / 85° / 85°	-
13.3"	WUXGA (1920x1200)	Multi-touch	IPS <sup>[2]</sup>	400nits	Anti-glare, anti-smudge	16:10	1500:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Low power, Eyesafe® Certified

												2.0
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**Touchscreen**

OGS (One Glass Solution) multi-touch, supports 10-point touch

**Screen-to-Body Ratio**

83.5%

Notes:

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

**Multi-mode****Multi-mode**

Laptop, tent, stand, and tablet modes supported by 360° hinge

**Input Device****Pen**

- Lenovo® Integrated Pen, with built-in rechargeable battery, 4096 levels of pressure sensitivity, on-board garaged and rechargeable
- No pen

**Keyboard**

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

**Keyboard Backlight**

- LED backlight
- Non-backlight

**UltraNav™**

TrackPoint® pointing device and Mylar® surface multi-touch 3-button Trackpad, 56 x 115 mm (2.24 x 4.53 inches)

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

305 x 218 x 17.06 mm (12.0 x 8.58 x 0.67 inches)

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

Starting at 1.32 kg (2.92 lbs)

**Case Color\*\***

- Black
- Grey

**Case Material**

Aluminium (top), GFRP (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>[1]</sup>**Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, Intel® vPro® technology support<sup>[2]</sup>**WWAN\*\***

- Wireless WAN upgradable to 4G (with antenna ready)
- Quectel EM061K-GL, 4G LTE CAT6, M.2 card, with embedded eSIM functionality
- No support

**SIM Card**

- KDDI eSIM Program (Japan)<sup>[3]</sup>
- No physical SIM card inbox

#### Ethernet<sup>[4]</sup>

No onboard Ethernet

#### 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.

[3] KDDI eSIM Program has no physical SIM card inbox and is for special bid only.

[4] Ethernet support via optional Lenovo® USB-C® to Ethernet Adapter.

## 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
- 1x USB-C® (USB 20Gbps / USB 3.2 Gen 2x2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)

### Optional Ports\*\*\*

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

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkPad® L13 2-in-1 Gen 5 \(Intel®\)](#)

## 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 140-2 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
- No fingerprint reader

## BIOS Security

- NVMe® password
- Power-on password
- Supervisor password
- System management password
- Certificate-based BIOS authentication
- FIDO (Fast Identity Online) authentication
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator<sup>\[1\]</sup>](#)

## Other Security

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

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

## 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 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® USB-C® to DisplayPort™ Adapter
- Lenovo® USB-C® to Ethernet Adapter (1Gbps)
- Lenovo® USB-C® to USB-A Adapter
- Lenovo® USB-C® to VGA Adapter
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad® L13 2-in-1 Gen 5 \(Intel®\)](#).

## 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 packaging: 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)

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#### Notes:

[1] When you charge the battery, its temperature must be no lower than 10°C (50°F).

## ENVIRONMENTAL

### Sustainability

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

30% PCC recycled plastic used in top cover frame material  
30% PCC recycled plastic used in bottom cover material  
50% PCC recycled plastic used in speaker enclosure  
90% PCC recycled plastic used in the 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 standard adapter  
90% PCC recycled plastic used in slim adapter  
90% recycled and/or sustainable packaging

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#### 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

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#### 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

MIL-STD-810H military test passed

#### Other Certifications

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