LENOVO PSREF
Product Specifications
Reference

OVERVIEW

1.	HDMI	5.	Power button
2.	USB-C (USB 10Gbps), with USB PD 3.0 & DP 1.4	6.	microSD card reader
3.	USB-C (USB 10Gbps), with USB PD 3.0 & DP 1.4	7.	USB-A (USB 5Gbps)
4.	Headphone / microphone combo jack (3.5mm)	8.	USB-A (USB 5Gbps), Always On

PERFORMANCE

Processor

Processor Family

Intel® H or U Series Core Ultra 5 / 7 Processor (Series 2)

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU
Core Ultra 5 225H	14 (4 P-core + 8 E-core + 2 LPE-core)	14	P-core 1.7GHz / E-core 1.3GHz / LPE-core 700MHz	P-core 4.9GHz / E-core 4.3GHz / LPE-core 2.5GHz	18MB	Intel® Arc™ 130T GPU, up to 63 TOPS[1]	Intel® AI Boost
Core Ultra 5 225U	12 (2 P-core + 8 E-core + 2 LPE-core)	14	P-core 1.5GHz / E-core 1.3GHz / LPE-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LPE-core 2.4GHz	12MB	Intel® Graphics	Intel® AI Boost
Core Ultra 7 255H	16 (6 P-core + 8 E-core + 2 LPE-core)	16	P-core 2GHz / E-core 1.5GHz / LPE-core 700MHz	P-core 5.1GHz / E-core 4.4GHz / LPE-core 2.5GHz	24MB	Intel® Arc™ 140T GPU, up to 74 TOPS[2]	Intel® AI Boost
Core Ultra 7 255U	12 (2 P-core + 8 E-core + 2 LPE-core)	14	P-core 2GHz / E-core 1.7GHz / LPE-core 700MHz	P-core 5.2GHz / E-core 4.2GHz / LPE-core 2.4GHz	12MB	Intel® Graphics	Intel® AI Boost

Notes:

[1], [2] Intel® Arc™ graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

AI (Artificial Intelligence)

AI PC Category[1]

AI PC[2]

AI Performance

Up to 96 overall TOPS

NPU

Integrated Intel® AI Boost, up to 13 TOPS

Notes:

[1] AI PCs have a NPU capable of 10+ TOPs to run the Copilot assistant by pressing the optional Microsoft® Copilot key or using Win + C.
[2] AI PC is only available for the models with Intel® Core™ Ultra 7 255H processor and 24GB Soldered LPDDR5x-8000.

Operating System

Operating System**

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

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel® Arc™ 130T GPU[1]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Arc™ 140T GPU[2]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1

Notes:

[1], [2] Intel® Arc™ graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least

16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

Monitor Support

Monitor Support

Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and USB-C®)
• HDMI® supports up to 4K@30Hz
• USB-C® supports up to 4K@60Hz

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory

- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable
- 24GB soldered memory, not upgradable

Memory Slots**

- Memory soldered to systemboard, no slots, dual-channel (16GB or 24GB models)
- Memory soldered to systemboard, no slots, single-channel (8GB models)

Memory Type

LPDDR5x-8000

Storage

Max Storage Support[1]

One drive, up to 1TB M.2 2242 SSD

Storage Slot

One M.2 2242 PCIe® 4.0 x4 slot

Storage Type

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

Notes:

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

Removable Storage

Card Reader

microSD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, optimized with Dolby Audio™

Microphone

Dual-microphone array

Camera

FHD 1080p + IR, with privacy shutter, fixed focus

Sensor

Sensors

- Accelerometer (G) sensor
- Hall sensor

Battery

Battery[1]

57Wh Rechargeable Li-ion Battery, supports Rapid Charge Boost (get 2 hours of runtime with a 15-minute charge)

Max Battery Life[2]

- WUXGA IPS with 225U or 255U models:
  MobileMark® 30@250nits: 10 hr
  Local video (1080p) playback@150nits: 20.5 hr
- WUXGA IPS with 225H or 255H models:
  MobileMark® 30@250nits: 10 hr
  Local video (1080p) playback@150nits: 19.5 hr
- WUXGA OLED with 225H or 255H models:
  MobileMark® 30@250nits: 10.5 hr
  Local video (1080p) playback@150nits: 19.5 hr

Notes:

[1] Rapid Charge Boost is only effective in hibernates or fully shutting down the computer.

[2] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, JEITA 3.0, continuous 1080p video playback (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 and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

Power Adapter[1]

65W USB-C® (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″	WUXGA (1920x1200)	Multi-touch	IPS[1]	300nits	Glossy	16:10	800:1	45% NTSC	60Hz	85° / 85° / 85° / 85°	89% AAR, TÜV Low Blue Light (Software), Glass
14″	WUXGA (1920x1200)	Multi-touch	OLED	500nits (HDR peak) / 400nits (SDR typical)	Glossy	16:10	100,000:1	100% DCI-P3	60Hz	85° / 85° / 85° / 85°	89% AAR, DisplayHDR™ True Black 500, TÜV Low Blue Light (Hardware), Glass

Color Calibration

No color calibration

Touchscreen

GF2 or OGM (One Glass Metal mesh) multi-touch, supports 10-point touch

Notes:

[1] 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® Digital Pen 2 with replaceable AAAA alkaline battery, 4096 levels of pressure sensitivity. For more information, please read Lenovo® Digital Pen 2 Overview
- Lenovo® Digital Pen 2 without replaceable AAAA alkaline battery, 4096 levels of pressure sensitivity. For more information, please read Lenovo® Digital Pen 2 Overview
- No pen (purchase separately)

Keyboard

6-row, multimedia Fn keys, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)[1]

313 x 227 x 17.5 mm (12.32 x 8.94 x 0.69 inches)

Weight[2]

Models	Weight
Models with IPS panel	Starting at 1.6 kg (3.53 lbs)
Models with OLED panel	Starting at 1.5 kg (3.31 lbs)

Case Color**

- Cosmic blue
- Luna grey

Surface Treatment

Aluminium stamping (anodized with sandblasting)

Case Material

Aluminium (top), PC-ABS + 40% GF (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®**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card[1]
- Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card[2]

WWAN

No support

Ethernet

No onboard Ethernet

Notes:

[1] Wi-Fi® 6 full features might be limited by country-level restrictions.
[2] Wi-Fi® 7 operation is subject to the regulation rules in each country.

Ports[1]

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 USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x HDMI® 1.4b
- 1x Headphone / microphone combo jack (3.5mm)
- 1x microSD 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 are supported via USB-C®.
For more compatible docking solutions, please visit Docking for IdeaPad® 5 2-in-1 14IAL10

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

Fingerprint Reader

No fingerprint reader

BIOS Security

- Administrator password
- Master hard disk password
- User hard disk password
- User password
- Self-healing BIOS
- More BIOS security features, please visit BIOS Simulator[1]

Other Security

- Camera privacy shutter
- 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.

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service

ACCESSORIES

Bundled Accessories

Bundled Accessories[1]

- Lenovo® WL310 Bluetooth® Silent Mouse
- None

Notes:

[1] For more compatible accessory solutions, please visit Accessories for IdeaPad® 5 2-in-1 14IAL10.

OPERATING REQUIREMENTS

Operating Environment

Temperature[1]

- At altitudes up to 2438 m (8,000 ft)
  - Operating: 5°C to 35°C (41°F to 95°F)
  - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
  - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°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).

CERTIFICATIONS

Green Certifications[1]

Green Certifications[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered[3]
- ErP Lot 6/26
- RoHS compliant

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

MIL-STD-810H military test passed (21 test items)

Other Certifications

- Models with IPS panel:
  TÜV Rheinland® Low Blue Light (Software Solution)
- Models with OLED panel:
  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.

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