

OVERVIEW



| | |
|--|------------------------------|
| 1. HDMI | 5. SD card reader |
| 2. USB-C 3.2 Gen 2 | 6. USB 3.2 Gen 1 (Always On) |
| 3. Thunderbolt 4 | 7. USB 3.2 Gen 1 |
| 4. Headphone / microphone combo jack (3.5mm) | |

PERFORMANCE

Processor

Processor Family

13th Generation Intel® H Series Core i5 / i7 Processor

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Processor Graphics |
|----------------|--------------------------|---------|-------------------------------|-------------------------------|-------|--------------------------|
| Core i5-13500H | 12 (4 P-core + 8 E-core) | 16 | P-core 2.6GHz / E-core 1.9GHz | P-core 4.7GHz / E-core 3.5GHz | 18MB | Intel® Iris® Xe Graphics |
| Core i7-13700H | 14 (6 P-core + 8 E-core) | 20 | P-core 2.4GHz / E-core 1.8GHz | P-core 5.0GHz / E-core 3.7GHz | 24MB | Intel® Iris® Xe Graphics |

Operating System

Operating System**

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

Graphics

Graphics**

| Graphics | Type | Memory | Boost Clock | TGP | Key Features |
|--------------------------------------|------------|-----------|-------------|---------------|---|
| Intel® Iris® Xe Graphics | Integrated | Shared | - | Share CPU TDP | DirectX® 12.1 |
| NVIDIA® GeForce RTX™ 3050 Laptop GPU | Discrete | 6GB GDDR6 | 1492 MHz | 60W | Dynamic Boost 2.0, DirectX® 12 Ultimate |

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 4K@60Hz
- Thunderbolt™ supports up to 8K@60Hz

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory

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

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5-5200

Storage

Storage Support^[1]

One drive, up to 1TB M.2 2242 SSD or 1TB M.2 2280 SSD

Storage Slot

One M.2 2280 PCIe® 4.0 x4 slot

Storage Type**

| Disk Type | Interface | Offering |
|--------------|---------------------------|-------------|
| M.2 2242 SSD | PCIe® NVMe®, PCIe® 4.0 x4 | 512GB / 1TB |
| M.2 2280 SSD | PCIe® NVMe®, PCIe® 4.0 x4 | 1TB |

Notes:

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

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2, optimized with Dolby Atmos®

Microphone

Dual-microphone array

Camera

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

Sensor

Sensors

- Hall sensor
- ToF sensor

Battery

Battery

75Wh Rechargeable Li-ion Battery, supports Rapid Charge Express (get 3 hours of runtime with a 15-minute charge)^[1]

Max Battery Life^[2]

- Integrated graphics models:
MobileMark® 2018@200nits: 15.5 hr
Local video (1080p) playback@150nits: 22 hr
- Discrete graphics models:
MobileMark® 2018@200nits: 11 hr
Local video (1080p) playback@150nits: 19 hr

Notes:

[1] Rapid Charge Express 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]

- 100W USB-C® slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 140W 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**^[1]

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Refresh Rate | Viewing Angle (L/R/U/D) | Key Features |
|------|------------------|-------|------|------------|------------|--------------|----------------|-------------|--------------|-------------------------|------------------------|
| 14" | 2.2K (2240x1400) | None | IPS | 300nits | Anti-glare | 16:10 | 1500:1 | 100% sRGB | 60Hz | 85° / 85° / 85° / 85° | Eyesafe® Certified 2.0 |
| 14" | 2.8K (2880x1800) | None | IPS | 400nits | Anti-glare | 16:10 | 1500:1 | 100% sRGB | 120Hz (Max) | 85° / 85° / 85° / 85° | Eyesafe® Certified 2.0 |

Touchscreen

Non-touch

Notes:

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

Input Device

Pen

No support

Keyboard

6-row, multimedia Fn keys

Keyboard Backlight

LED backlight

Touchpad

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

Mechanical

Dimensions (WxDxH)^[1]

312 x 221 x 15.99 mm (12.28 x 8.7 x 0.63 inches)

Weight^[2]

Starting at 1.46 kg (3.22 lbs)

Case Color

Arctic grey

Surface Treatment

Aluminium stamping (anodized with sandblasting)

Case Material

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

Ethernet

No onboard Ethernet

WLAN + Bluetooth®

Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card^[1]

WWAN

No support

Notes:

[1] Wi-Fi® 6E full features might be limited by country-level restrictions.

6GHz Wi-Fi® 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi® 6E, and the regional regulatory certifications & spectrum allocation.

Bluetooth® 5.3 operation requires Windows® 11. For more information please visit [General Bluetooth® Support Information on Microsoft®](#).

Ports^[1]

Standard Ports

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C® 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
- 1x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD 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.

Docking

Docking

Various docking solutions are supported via Thunderbolt™ or USB-C®.

For more compatible docking solutions, please visit [Docking for IdeaPad® Pro 5 14IRH8](#)

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

Other Security

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

SERVICE

Warranty

Base Warranty**

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

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

None

Notes:

[1] For compatible accessory solutions, please visit [Accessories for IdeaPad® Pro 5 14IRH8](#).

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® 8.0
- 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

- Eyesafe® Certified 2.0
- (Optional) Intel® Evo™ Platform
- 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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