

## OVERVIEW



1. SD card reader	5. USB-C 2.0 (data transfer / PD 3.0 only) *
2. USB 3.2 Gen 1	6. HDMI
3. USB 3.2 Gen 1 (Always On)	7. Thunderbolt 4
4. Power connector *	8. Headphone / microphone combo jack (3.5mm)

## Notes:

- Items with \* are only available on selected models
- Port 5 (not shown on the sample product above) is mutually exclusive with Port 4

## PERFORMANCE

### Processor

#### Processor Family

12th Generation Intel® Core™ i5 / i7 Processor

#### Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core i5-12500H	12 (4 P-core + 8 E-core)	16	P-core 2.5GHz / E-core 1.8GHz	P-core 4.5GHz / E-core 3.3GHz	18MB	Intel Iris® Xe Graphics
Core i7-12700H	14 (6 P-core + 8 E-core)	20	P-core 2.5GHz / E-core 1.8GHz	P-core 4.7GHz / E-core 3.5GHz	24MB	Intel Iris Xe Graphics

### Operating System

#### Operating System\*\*

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

### Graphics

#### Graphics\*\*

Graphics	Type	Memory	Key Features
Intel Iris Xe Graphics	Integrated	Shared	DirectX® 12.1
Intel Arc™ A370M Graphics	Discrete	4GB GDDR6	DirectX 12 Ultimate

### Monitor Support

#### Monitor Support

Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and Thunderbolt™)

- HDMI supports up to 4096x2160@30Hz
- Thunderbolt supports up to 5120x3200@60Hz

### Chipset

#### Chipset

Intel SoC (System on Chip) platform

### Memory

#### Max Memory

16GB soldered memory, not upgradable

#### Memory Slots

Memory soldered to systemboard, no slots, dual-channel

#### Memory Type

LPDDR5-4800

### Storage

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

One drive, up to 512GB 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

M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	512GB / 1TB
M.2 2280 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.

## Removable Storage

### Card Reader

SD card reader

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

### Speakers

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

### Microphone

Dual-microphone array

### Camera

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

## Sensor

### Sensors

- Hall sensor
- ToF sensor

## Battery

### Battery

Integrated Li-Polymer 75Wh battery, supports Rapid Charge Express (get 3 hours of runtime with a 15-minute charge)<sup>[1]</sup>

### Max Battery Life<sup>[2]</sup>

- Integrated graphics models:
  - MobileMark® 2018@200nits: 9.4 hr
  - Local video (1080p) playback@150nits: 15.85 hr
- Discrete graphics models:
  - MobileMark 2018@200nits: 7.05 hr
  - Local video (1080p) playback@150nits: 13.34 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, JEITA 2.0, 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<sup>\*\*[1]</sup>

- 100W USB-C® slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 135W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

Notes:

[1] AC adapter offerings depend on the country.

## DESIGN

## Display

**Display\*\*<sup>[1]</sup>**

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
16"	2.5K (2560x1600)	None	IPS	350nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	85°/85°/85°/85°	TÜV Low Blue Light (Hardware)
16"	2.5K (2560x1600)	None	IPS	350nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz (Max)	85°/85°/85°/85°	TÜV Low Blue Light (Hardware), TCON

**Color Calibration**

- TCON (Timing Controller) color calibration
- No color calibration

**Touchscreen**

Non-touch

Notes:

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

**Input Device****Keyboard**

6-row, multimedia Fn keys, numeric keypad

**Keyboard Backlight**

LED 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)<sup>[1]</sup>**

356 x 251 x 16.9 mm (14.02 x 9.88 x 0.67 inches)

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

Starting at 1.95 kg (4.30 lbs)

**Case Color\*\***

- Cloud grey
- Storm grey

**Surface Treatment**

Aluminium stamping (anodized)

**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<sup>[1][2]</sup>**

Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

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**Notes:**

- [1] Bluetooth may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.
- [2] Wi-Fi 6 full features might be limited by country-level restrictions.

**Ports<sup>[1]</sup>****Standard Ports**

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x Thunderbolt 4 / USB4<sup>®</sup> 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x HDMI 2.0
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD card reader

**Optional Ports<sup>\*\*\*</sup>**

- 1x USB-C 2.0 (support data transfer and Power Delivery 3.0, models with integrated graphics)
- 1x Power connector (models with discrete graphics)

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**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.

For more compatible docking solutions, please visit [Docking for IdeaPad® 5 Pro 16IAH7](#)

**SECURITY & PRIVACY****Security****Security Chip**

Firmware TPM 2.0 integrated in SoC

**Fingerprint Reader**

No fingerprint reader

**BIOS Security**

- Administrator password
- User password
- Master hard disk password
- User hard disk password
- Self-healing BIOS

**Other Security**

IR camera for Windows Hello

**SERVICE****Warranty****Base Warranty<sup>\*\*</sup>**

- 1-year courier or carry-in service
- 1-year courier or carry-in with 2-year system board service (Korea only)
- 2-year (1-yr battery) courier or carry-in service

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

## ENVIRONMENTAL

### Operating Environment

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

- 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)

#### 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).

## ACCESSORIES

### Bundled Accessories

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

None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for IdeaPad 5 Pro 16IAH7](#).

## CERTIFICATIONS

### Green Certifications<sup>[1]</sup>

#### Green Certifications<sup>[2]</sup>

- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

[2] EPEAT™ registration and ENERGY STAR certification are dependent on system OS. Please visit [epeat.net](#) and [energystar.gov](#) for more information.

### Other Certifications

#### Other Certifications

TÜV Rheinland® Low Blue Light (Hardware Solution)

- Feature with \*\* means that only one offering listed under the feature is configured on selected models.
- Feature with \*\*\* means that one or more offerings listed under the feature could be configured on selected models.
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