

OVERVIEW



1. D-pad	11. Y1 button
2. Left Joystick	12. RT button
3. 2x Function button	13. RB button
4. 2x Function button	14. LB button
5. Right Joystick	15. LT button
6. A B X Y buttons	16. 2x USB-C (USB4 40Gbps), with USB PD 65-100W & DP 1.4
7. Touchpad	17. Combo audio jack
8. Y2 button	18. Volume buttons
9. RT button range switch	19. Power button
10. LT button range switch	20. Card reader

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ Z Series Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
AMD Ryzen™ Z2 Go	4	8	3.0GHz	4.3GHz	2MB L2 / 8MB L3	AMD Radeon™ Graphics

Operating System

Operating System**

- Windows® 11 Home
- Windows® 11 Home Single Language
- SteamOS

Graphics

Graphics

Graphics	Type	Memory	Key Features
AMD Radeon™ Graphics	Integrated	Shared	DirectX® 12

Chipset

Chipset

AMD 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

Memory Type

- LPDDR5-6400
- LPDDR5X-6400

Storage

Max Storage Support^[1]

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

Storage Slot^[2]

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

Notes:

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

[2] 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

microSD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio

Speakers

Stereo speakers, 2W x2

Microphone

Dual-microphone array

Camera

No camera

Sensor

Sensors

- Accelerometer + 6-axis Gyroscope sensor
- Ambient light sensor (ALS)

Battery

Battery

55.5Wh Rechargeable Li-ion Battery, supports Super Rapid Charge (10min charge 0-30% capacity, 30min charge 0-70% capacity, 80min charge 0-100% capacity)

Max Battery Life^[1]

Local video (1080p) playback@150nits: 15.4 hr

Notes:

[1] 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
- 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Legion Coldfront cooling system

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
8"	WUXGA (1920x1200)	Multi-touch	IPS ^[1]	500nits	Glossy, anti-fingerprint	16:10	1200:1	100% sRGB	48-120Hz VRR	89° / 89° / 80° / 80°	Panda King Glass, TÜV Rheinland® Low Blue Light

Touchscreen

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

Screen-to-Body Ratio

83% AAR (active area ratio)

Notes:

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

Input Device

Pen

No support

Touchpad

Buttonless Mylar® surface touchpad (on the right controller), 10 x 10 mm (0.39 x 0.39 inches)

Controls

A B X Y buttons

D-pad

Touchpad

Left & right Joysticks

4x function buttons

Y1 & Y2 buttons

LT & RT buttons

LB & RB buttons

LT & RT button range switch

Mechanical

Dimensions (WxDxH)^[1]

298.5 x 127.55 x 22.6-43.4 mm (11.75 x 5.02 x 0.89-1.71 inches)

Weight^[2]

Around 740 g (1.63 lbs)

Case Color**

- Glacier white
- Nebula nocturne

Case Material

PC-ABS + 15% Talc

Surface Treatment

Painting + laser special texture

System Lighting

RGB lighting ring

Others

- Power button
- Volume keys

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]

AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3

WWAN

No support

Ethernet

No onboard Ethernet

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.

Ports^[1]

Standard Ports

- 2x USB-C® (USB4® 40Gbps), with USB PD 65-100W and DisplayPort™ 1.4
- 1x Headphone / microphone combo jack (3.5mm)
- 1x 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 USB-C®.

For more compatible docking solutions, please visit [Docking for Legion Go S 8ARP1](#)

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
- Power-on password
- User hard disk password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)

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)
- 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 more compatible accessory solutions, please visit [Accessories for Legion Go S 8ARP1](#).

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: 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

- 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>.

Other Certifications

Other Certifications

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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