# **OVERVIEW**



1. Headphone / microphone combo jack (3.5mm)	6. USB 3.2 Gen 1
2. USB 3.2 Gen 1	7. USB 3.2 Gen 1 (Always On)
3. Ethernet (RJ-45)	8. Power connector
4. USB-C 3.2 Gen 2	9. USB4 40Gbps (data transfer / DP1.4 only)
5. HDMI 2.1	10. USB-C 3.2 Gen 2 (data transfer / DP 1.4 only)

Notes:

Port 9 performs as USB4 only when the BIOS version is above V50, otherwise, it works as USB-C 3.2 Gen
2.

# PERFORMANCE

### **Processor**

#### Processor Family

AMD Ryzen<sup>™</sup> 7 Processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
AMD Ryzen 7 6800H	8	16	3.2GHz	4.7GHz	4MB L2 / 16MB L3	AMD Radeon™ 680M Graphics

## **Operating System**

#### **Operating System**\*\*

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

## **Graphics**

#### Graphics

Graphics	Туре	Memory	Boost Clock	TGP	Key Features
NVIDIA® GeForce RTX™ 3050 Ti Laptop GPU	Discrete	4GB GDDR6	1695 MHz	95W	Advanced Optimus, Dynamic Boost 2.0, DirectX® 12 Ultimate

# **Monitor Support**

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

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

• HDMI supports up to 7680x4320@60Hz

USB-C supports up to 7680x4320@60Hz

Notes:

[1] For Max resolution, DSC-enabled display is required. Three external output display devices cannot be supported at the same time when displaying 8K resolution.

## Chipset

#### Chipset

AMD SoC (System on Chip) platform

## Memory

Max Memory<sup>[1]</sup>

Up to 16GB DDR5-4800 offering

**Memory Slots** 

Two DDR5 SO-DIMM slots, dual-channel capable

#### **Memory Type**

DDR5-4800

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

## Storage

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

Up to two drives, 2x M.2 SSD • M.2 2280 SSD up to 1TB • M.2 2242 SSD up to 512GB

#### Storage Slot

Two M.2 2280 PCIe<sup>®</sup> 4.0 x4 slots

Legion 5 Pro 16ARH7 - December 25 2023

# Legion 5 Pro 16ARH7

#### Storage Type\*\*

Disk Type	Interface	Offering	
M.2 2242 SSD	PCIe NVMe®, PCIe 4.0 x4	512GB	
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**

No card reader

#### **Multi-Media**

#### Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

#### Speakers

Stereo speakers, 2W x2, Nahimic Audio

#### Microphone

Dual-microphone array

#### Camera

HD 720p, with E-shutter, fixed focus

#### **Battery**

#### Battery

Integrated Li-Polymer 80Wh battery, supports Super Rapid Charge (10min charge 0~30% capacity, 30min charge 0~70% capacity, 80min charge 0~100% capacity)

#### Max Battery Life<sup>[1]</sup>

MobileMark® 2018: 9.9 hr Local video (1080p) playback@150nits: 12.5 hr

#### Notes:

[1] 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**

230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

# DESIGN

## **Display**

#### Display\*\*[1]

Size	Resolution	Touch	Туре	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
16″	WUXGA (1920x1200)	None	IPS	300nits	Anti- glare	16:10	1200:1	100% sRGB	165Hz	89°/89°/89°/89°	Dolby <sup>®</sup> Vision <sup>™</sup> , AMD FreeSync <sup>™</sup> , NVIDIA G- SYNC <sup>®</sup> , DC dimmer, TÜV Low Blue

											Light, Advanced Optimus
16″	WQXGA (2560x1600)	None	IPS	500nits	Anti- glare	16:10	1200:1	100% sRGB	165Hz	89°/89°/89°/89°	DisplayHDR™ 400, AMD FreeSync, NVIDIA G- SYNC, Dolby Vision, DC dimmer, TÜV Low Blue Light, TÜV High Gaming Performance

#### **Color Calibration**

#### X-Rite® factory color calibration

## Touchscreen

Non-touch

#### Notes:

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

## **Input Device**

#### Keyboard\*\*

- Glacier white models: 6-row, multimedia Fn keys, numeric keypad, moon white keycaps
- Storm grey models: 6-row, multimedia Fn keys, numeric keypad, black keycaps

#### Keyboard Backlight\*\*

- 4-Zone RGB backlight
- Blue backlight
- White backlight

#### Touchpad

Buttonless Mylar<sup>®</sup> surface multi-touch touchpad, 75 x 120 mm (2.95 x 4.72 inches)

## **Mechanical**

#### Dimensions (WxDxH)<sup>[1]</sup>

359.9 x 262.4 x 19.9 mm (14.17 x 10.33 x 0.78 inches)

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

Starting at 2.42 kg (5.34 lbs)

#### Case Color\*\*

- Glacier white (top), dove grey (bottom)
- Storm grey (top), black (bottom)

#### Surface Treatment\*\*

- Anodize electrophoresis deposition
- Anodizing

#### **Case Material**

Aluminium (top), aluminium (bottom)

#### System Lighting

No system lighting

#### 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.

## Network

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

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

#### WLAN + Bluetooth®\*\*[2]

- 802.11ac 2x2 Wi-Fi<sup>®</sup> + Bluetooth 5.1, M.2 card
- Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card<sup>[3]</sup>
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card<sup>[4]</sup>

#### Notes:

[1] Wake-on-LAN needs the power adapter plugged in.

[2] Bluetooth may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

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

[4] Wi-Fi 6E operates as Wi-Fi 6 due to AMD platform limitation.

Wi-Fi 6 full features might be limited by country-level restrictions.

### **Ports**<sup>III</sup>

#### Standard Ports

- 1x USB 3.2 Gen 1 (Always On)
- 2x USB 3.2 Gen 1
- 1x USB-C 3.2 Gen 2 (support data transfer and DisplayPort<sup>™</sup> 1.4)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 135W and DisplayPort 1.4)
- 1x USB4<sup>®</sup> 40Gbps (support data transfer and DisplayPort 1.4)<sup>[2]</sup>
- 1x HDMI 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x Power connector

#### 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<sup>™</sup> 3/4: 40 Gbit/s.

[2] Please ensure the BIOS version is above V50 to enable USB4, otherwise, it works as USB-C 3.2 Gen 2.

# **SECURITY & PRIVACY**

## Security

#### **Security Chip**

Firmware TPM 2.0 integrated in SoC

#### Fingerprint Reader

No fingerprint reader

#### **BIOS Security**

- Administrator password
- Power-on password
- Hard disk password
- Self-healing BIOS

Other Security

E-shutter

# 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

# **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)

#### 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).

# ACCESSORIES

## **Bundled Accessories**

#### Bundled Accessories

None

Notes:

[1] For more compatible accessory solutions, please visit <u>Accessories for Legion 5 Pro 16ARH7</u>

# CERTIFICATIONS

## **Green Certifications**<sup>11</sup>

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

- 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<sup>®</sup> certification are dependent on system OS. Please visit epeat.net and energystar.gov for more information.

# **Other Certifications**

#### **Other Certifications**

- (Optional) TÜV Rheinland® High Gaming Performance
- TÜV Rheinland Low Blue Light (Hardware Solution)

• Feature with \*\* means that only one offering listed under the feature is configured on selected models.

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