Lenovo PSREF
Product Specifications
Reference

OVERVIEW

1.	E-camera shutter switch	6.	HDMI 2.1
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.	USB-C 3.2 Gen 2 (data transfer / DP 1.4 only)
5.	2x USB 3.2 Gen 1	10.	Headphone / microphone combo jack (3.5mm)

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
AMD Ryzen 5 5600H	6	12	3.3GHz	4.2GHz	3MB L2 / 16MB L3	DDR4-3200	AMD Radeon™ Graphics
AMD Ryzen 7 5800H	8	16	3.2GHz	4.4GHz	4MB L2 / 16MB L3	DDR4-3200	AMD Radeon Graphics

Operating System

Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- No operating system

Graphics

Graphics

Graphics	Type	Memory	Boost Clock	TGP	Key Features
NVIDIA® GeForce® GTX 1650	Discrete	4GB GDDR6	-	-	DirectX® 12
NVIDIA GeForce RTX™ 3050 Laptop GPU	Discrete	4GB GDDR6	1500 MHz / 1740 MHz	95W	DirectX 12
NVIDIA GeForce RTX 3050 Ti Laptop GPU	Discrete	4GB GDDR6	1485 MHz / 1695 MHz	95W	DirectX 12

Monitor Support

Monitor Support

- 3050 / 3050Ti model: supports up to 4 independent displays via native display and 3 external monitors; supports external monitors via HDMI® (up to 7680x4320@60Hz) or USB-C (up to 5120x3200@60Hz)
- 1650 model: supports up to 4 independent displays via native display and 3 external monitors; supports external monitors via HDMI (up to 3840x2160@60Hz) or USB-C (up to 5120x3200@60Hz)

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory[1]

Up to 16GB DDR4-3200 offering

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type

DDR4-3200

Notes:

1. The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.

Storage

Storage Support

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

Storage Type

Disk Type	Interface	RPM	Offering	Security
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x4	-	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-	-

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2, Nahimic Audio

Microphone

Dual array microphone

Camera

720p, with E-camera shutter, fixed focus

Battery

Battery

- Integrated Li-Polymer 60Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- Integrated Li-Polymer 80Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)

Max Battery Life[1]

- MobileMark® 2018: 7.15 hr (60Wh)
- MobileMark 2018: 9.29 hr (80Wh)

Notes:

1. All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, and/or JEITA 2.0 battery-life benchmark tests. Actual battery life will vary and depends 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

DESIGN

Display

Display[1]

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
15.6″	FHD (1920x1080)	None	IPS	250 nits	Anti-glare	16:9	800:1	45% NTSC	170°	Refresh rate 120Hz, Free-Sync, DC dimmer
15.6″	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	1000:1	100% sRGB	170°	Refresh rate 165Hz, Dolby® Vision™, Free-Sync, G-Sync, DC dimmer
15.6″	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	1200:1	100% sRGB	170°	Refresh rate 60Hz, Free-Sync, DC dimmer

Touchscreen

Non-touch

Notes:

1. California Electronic Waste Recycling Fee
In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product.
For more information, go to https://www.calrecycle.ca.gov/Electronics/Consumer

Input Device

Keyboard

- Phantom blue model: 6-row, multimedia Fn keys, numeric keypad, black keycap
- Stingray model: 6-row, multimedia Fn keys, numeric keypad, moon white keycap

Keyboard Backlight

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

Touchpad

Buttonless Mylar® surface multi-touch touchpad

Mechanical

Dimensions (WxDxH)

362.56 x 260.61 x 22.5-25.75 mm (14.27 x 10.26 x 0.89-1.01 inches)

Weight[1]

2.4 kg (5.3 lbs)

Case Color

- Phantom blue (top), shadow black (bottom)
- Stingray (top), dove grey (bottom)

Surface Treatment

Painting

Case Material

PC + ABS (top), PC + ABS (bottom)

System Lighting

No system lighting

Notes:

1. The system weight varies depending on configurations

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, Realtek RTL8111H

WLAN + Bluetooth®

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

Ports[1]

Standard Ports[2]

- 3x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer and DisplayPort™ 1.4)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery and DisplayPort 1.4)
- 1x HDMI 2.1
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)

- 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;
USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
Thunderbolt™ 3: 40 Gbit/s;
FireWire 400: 400 Mbit/s;
FireWire 800: 800 Mbit/s
2. Depending on many factors, actual data transfer speed may be lower than theoretical speed

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in chipset

Fingerprint Reader

No fingerprint reader

BIOS Security

- Supervisor password
- Power-on password
- Hard disk password

Other Security

E-Camera shutter

SERVICE

Warranty

Base Warranty

- 1-year depot service
- 1-year depot with 2-year system board service
- 2-year (1-yr battery) depot service

ENVIRONMENTAL

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)

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

Lenovo Legion 5 15ACH6

PSREF
Product Specifications
Reference

Bundled Accessories

Bundled Accessories

- Lenovo Legion™ M300 RGB Gaming Mouse (USB connector)
- None

CERTIFICATIONS

Green Certifications

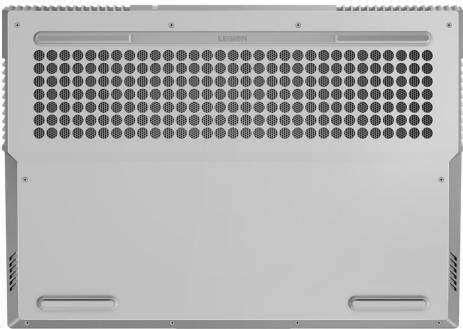**Green Certifications**

- ErP Lot 3
- RoHS compliant

Lenovo Legion 5 15ACH6 - September 01 2021

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AMD

AMD

AMD

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