Lenovo Legion Y540-15IRH-PG0 81SY00CSGE

Product
Lenovo Legion Y540-15IRH-PG0

Region
WE

Country/Region
Germany

Machine Type
81SY

Processor
Core i5-9300H (4C / 8T, 2.4 / 4.1GHz, 8MB)

Graphics
NVIDIA GeForce GTX 1650 4GB GDDR5

Chipset
Intel HM370

Memory
1x 8GB DIMM DDR4-2666

Display
15.6" FHD (1920x1080) IPS 300nits Anti-glare, 60Hz

Multi-touch
None

Storage
512GB SSD M.2 2242 PCIe 3.0x2 NVMe

Optane Memory
None

Optical
None

Media Reader
None

Ethernet
100/1000M

WLAN + Bluetooth
11ac, 2x2 + BT4.2

Color
Black

Camera
720p

Microphone
2x, Array

Keyboard
Backlit

Fingerprint Reader
None

TPM
FW TPM 2.0

Battery
Integrated 52.5Wh

Power Adapter
170W Slim Tip

Operating System
None

Bundled Software
None

Base Warranty
2-year, Depot

Upsell Service Bundles
None

EAN / UPC
194552118136

End of Support
2025-08-26

Announce Date
2019-07-29

Notes:

Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.

WWW.LENOVO.COM

Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifcations or other product information without notice. Lenovo is not responsible for photographic or typographical errors.

Lenovo provides this publication “as is” without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.

https://psref.lenovo.com

Visit psref website for the latest version of Product Specifcations Reference.

© Lenovo, 2019. All rights reserved.



Lenovo Legion Y540-15IRH-PG0 Platform Specifications

Product Specifications Reference (PSREF)

Processor

9th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-9300H	4	8	2.4 GHz	4.1 GHz	8MB	DDR4-2666	Intel UHD Graphics 630
i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB		

Graphics

Integrated Graphics	Discrete Graphics (Memory)
Intel UHD Graphics 630	NVIDIA® GeForce® GTX 1650 (4GB GDDR5 memory)

supports external digital monitor via HDMI, Mini DP or USB Type-C;
supports three independent displays;
Max resolution: 3840x2160@60Hz (HDMI); 7680x4320@60Hz (Mini DP 1.4);
3840x2160@60Hz (USB Type-C)

Chipset
Mobile Intel HM370 Chipset

Memory
32GB max offering / 2666MHz DDR4, dual-channel capable,
two DDR4 SO-DIMM sockets

Display

One of the following, configurable by model:

- 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 45% gamut, refresh rate 60Hz
- 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 72% gamut, refresh rate 60Hz
- 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 72% gamut, refresh rate 144Hz

Multi-touch
None

Storage

Up to 2 drives (one HDD and one M.2 SSD):

- HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high
- M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s
- M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optane Memory
Optional 16GB Intel Optane Memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, M.2

Optical
None

Ethernet
Gigabit Ethernet connection

WLAN

One of the following, configurable by model:

- 802.11ac 1x1 Wi-Fi + Bluetooth 4.2, M.2 Card
- 802.11ac 2x2 Wi-Fi + Bluetooth 4.2, M.2 Card

Bluetooth™
Bluetooth 4.2 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Dimensions
WxDxH: 14.17" x 10.51" x 0.95-0.99"; 360mm x 267mm x 24.2-25.2mm

Weight
Approx 5.07 lb / 2.3 kg

Case color
Black

Case material
PC/ABS plastic

Lighting
"Y" Logo lighting on display cover

Media reader
None

Ports
One USB 3.1 Gen 1 (one Always On), two USB 3.1 Gen 1,
one USB 3.1 Type-C Gen 1 / (with the function of DisplayPort 1.2),
HDMI 2.0, Ethernet (RJ-45), Mini DisplayPort 1.4,
headphone / microphone combo jack, security keyhole, AC power adapter jack
** Depending on many factors, actual data transfer speed may be lower than theoretical speed*

Camera
720p HD, 1.0MP resolution, fixed focus, with dual array microphone

Audio support
HD Audio, Realtek ALC3287 codec /
Dolby Atoms® for Gaming PC, Harman® stereo speakers with chamber, 2W x 2,
dual array microphone, headphone / microphone combo jack

Keyboard
6-row, multimedia Fn keys, numeric keypad, white LED backlight

Touchpad
2-button Mylar surface multi-touch touchpad

Security
Power-on password, hard disk password, administrator password, security keyhole

Security chip
Firmware TPM 2.0 integrated in chipset

Fingerprint reader
None

Battery
Integrated Li-ion 52.5Wh battery

Max battery life
MobileMark® 2014: 5 hr
** Battery life varies significantly with settings, usage, & other factors*

AC adapter
170W slim tip AC adapter

Preload *(opt)*

Preloaded operating system

- Windows® 10 Home 64

Preloaded applications (only some listed)

- Microsoft Office Trial (with 30-day license)

Limited warranty

One of the following, configurable by model:

- 1-year depot repair service
- 2-year/1-yr battery depot repair service

Environment
ErP lot 3; RoHS-compliant

Note: The specifications above may not be available in all regions.

Lenovo, August 2019

Lenovo Legion Y540-15IRH-PG0











