

# Lenovo Legion Y540-15IRH 81SX00K9GE

**Product**

Lenovo Legion Y540-15IRH

**Region**

WE

**Country/Region**

Germany

**Machine Type**

81SX

**Processor**

Core i7-9750H (6C / 12T, 2.6 / 4.5GHz, 12MB)

**Graphics**

NVIDIA GeForce GTX 1660 Ti 6GB GDDR6

**Chipset**

Intel HM370

**Memory**

2x 8GB DIMM DDR4-2666

**Display**

15.6" FHD (1920x1080) IPS 300nits Anti-glare, 144Hz

**Multi-touch**

None

**Storage**

256GB SSD M.2 2280 PCIe 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, German

**Fingerprint Reader**

None

**TPM**

FW TPM 2.0

**Battery**

Integrated 57Wh

**Power Adapter**

230W Slim Tip

**Operating System**

None

**Bundled Software**

None

**Base Warranty**

2-year, Depot

**Service Bundles**

None

**EAN / UPC**

194552413842

**End of Support**

2025-10-05

**Announce Date**

2019-09-05

**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.

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# Lenovo Legion Y540-15IRH Platform Specifications

Product Specifications Reference (PSREF)

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                    |                |                     |       |              |                        |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------|----------------|---------------------|-------|--------------|------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor     | 9th Generation Intel® Core™ i5 / i7 Processor                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                                                                                                                    |                |                     |       |              |                        | Dimensions<br>Weight<br>Case color<br>Case material<br>Lighting | WxDxH: 14.17" x 10.51" x 0.95-1.02"; 360mm x 267mm x 24.2-25.9mm<br>Approx 5.07 lb / 2.3 kg<br>Black<br>PC/ABS plastic<br>"Y" Logo lighting on display cover                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|               | 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)                                                                                         |                |                     |       |              |                        | Media reader<br>Ports<br><br>Camera<br>Audio support            | None<br>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<br>* Depending on many factors, actual data transfer speed may be lower than theoretical speed<br><br>720p HD, 1.0MP resolution, fixed focus, with dual array microphone<br>HD Audio, Realtek ALC3287 codec / Dolby Atmos® for Gaming PC, Harman® stereo speakers with chamber, 2W x 2, dual array microphone, headphone / microphone combo jack |
|               | Intel UHD Graphics 630                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | NVIDIA® GeForce® GTX 1660 Ti (6GB GDDR6 memory), VR ready<br>NVIDIA GeForce RTX™ 2060 (6GB GDDR6 memory), VR ready |                |                     |       |              |                        |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | supports external digital monitor via HDMI, Mini DP or USB Type-C;<br>supports three independent displays;<br>Max resolution: 3840x2160@60Hz (HDMI); 7680x4320@60Hz (Mini DP 1.4); 3840x2160@60Hz (USB Type-C)                                                                                                                                                                                                                                                                           |            |                                                                                                                    |                |                     |       |              |                        |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                    |                |                     |       |              |                        |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chipset       | Mobile Intel HM370 Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                                                                                                                    |                |                     |       |              |                        | Keyboard                                                        | 6-row, multimedia Fn keys, numeric keypad, white LED backlight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Memory        | 32GB max offering / 2666MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                                                                                                    |                |                     |       |              |                        | Touchpad                                                        | 2-button Mylar surface multi-touch touchpad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Display       | One of the following, configurable by model: <ul style="list-style-type: none"><li>15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 45% gamut, refresh rate 60Hz</li><li>15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 72% gamut, refresh rate 60Hz</li><li>15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 72% gamut, refresh rate 144Hz</li></ul> |            |                                                                                                                    |                |                     |       |              |                        | Security                                                        | Power-on password, hard disk password, administrator password, security keyhole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Multi-touch   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                    |                |                     |       |              |                        | Security chip                                                   | Firmware TPM 2.0 integrated in chipset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Storage       | Up to 2 drives (one HDD and one M.2 SSD): <ul style="list-style-type: none"><li>HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high</li><li>M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s</li><li>M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s</li><li>Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4</li></ul>                                                                                                                                                   |            |                                                                                                                    |                |                     |       |              |                        | Fingerprint reader                                              | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Optane Memory | Optional 16GB Intel Optane Memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, M.2                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                    |                |                     |       |              |                        | Battery                                                         | Integrated Li-ion 57Wh battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Optical       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                    |                |                     |       |              |                        | Max battery life                                                | MobileMark® 2014: 5 hr<br>* Battery life varies significantly with settings, usage, & other factors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ethernet      | Gigabit Ethernet connection                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                                                                                                    |                |                     |       |              |                        | AC adapter                                                      | 230W slim tip AC adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| WLAN          | One of the following, configurable by model: <ul style="list-style-type: none"><li>802.11ac 1x1 Wi-Fi + Bluetooth 4.2, M.2 Card</li><li>802.11ac 2x2 Wi-Fi + Bluetooth 4.2, M.2 Card</li></ul>                                                                                                                                                                                                                                                                                           |            |                                                                                                                    |                |                     |       |              |                        | Preload (opt)                                                   | Preloaded operating system <ul style="list-style-type: none"><li>Windows® 10 Home 64</li></ul> Preloaded applications (only some listed) <ul style="list-style-type: none"><li>Microsoft Office Trial (with 30-day license)</li></ul>                                                                                                                                                                                                                                                                                                                                                                          |
| Bluetooth™    | Bluetooth 4.2 wireless, integrated in Wi-Fi + Bluetooth combo adapter                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                    |                |                     |       |              |                        | Limited warranty                                                | One of the following, configurable by model: <ul style="list-style-type: none"><li>1-year depot repair service</li><li>2-year/1-yr battery depot repair service</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                    |                |                     |       |              |                        | Environment                                                     | ErP lot 3; RoHS-compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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

Lenovo, August 2019

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