

# Lenovo Legion 5 15ARH05H 82B100A9GE

**Product**

Lenovo Legion 5 15ARH05H

**Region**

WE

**Country/Region**

Germany

**Machine Type**

82B1

**Processor**

AMD Ryzen 7 4800H (8C / 16T, 2.9 / 4.2GHz, 4MB L2 / 8MB L3)

**Graphics**

NVIDIA GeForce RTX 2060 6GB GDDR6

**Chipset**

AMD SoC Platform

**Memory**

2x 8GB SO-DIMM DDR4-3200

**Storage**

1TB SSD M.2 2280 PCIe NVMe

**Display**

15.6" FHD (1920x1080) IPS 250nits Anti-glare, 120Hz, 45% NTSC

**Touchscreen**

None

**Optical**

None

**Media Reader**

None

**Ethernet**

100/1000M

**WLAN + Bluetooth**

11ax, 2x2 + BT5.0

**Bundled Accessories**

None

**Case Material**

PC / ABS

**Camera**

720p

**Microphone**

2x, Array

**Surface Treatment**

Painting

**Color**

Phantom Black

**Keyboard**

Backlit, German

**Fingerprint Reader**

None

**TPM**

FW TPM 2.0

**Battery**

Integrated 60Wh

**Power Adapter**

230W Slim Tip

**Operating System**

Windows 10 Home 64, German

**Bundled Software**

Office Trial

**Base Warranty**

2-year, Depot

**Bundled Service**

None

**EAN / UPC / JAN**

195348547321

**End of Support**

2026-09-13

**Announce Date**

2020-08-25



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AMD

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# Lenovo Legion 5 15ARH05H Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                           |                |                     |                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------|----------------|---------------------|-----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor         | AMD Ryzen™ Mobile Processors with Radeon™ Graphics                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                                                           |                |                     |                 |              | Media reader Ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | None<br>Four USB 3.2 Gen 1 (one Always On),<br>one USB 3.2 Type-C Gen 1 (with the function of DisplayPort 1.2),<br>HDMI 2.0, Ethernet (RJ-45), headphone / microphone combo jack,<br>security keyhole, AC power adapter jack<br><i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i><br>Optional: Lenovo Legion M300 RGB Gaming Mouse (USB connector) |
|                   | Processor Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | # of Cores | # of Threads                                              | Base Frequency | Max Turbo Frequency | Cache           | Memory Types |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   | Ryzen 5 4600H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6          | 12                                                        | 3.0 GHz        | 4.0 GHz             | 3MB L2 / 8MB L3 | DDR4-3200    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   | Ryzen 7 4800H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8          | 16                                                        | 2.9 GHz        | 4.2 GHz             | 4MB L2 / 8MB L3 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Graphics          | Integrated Graphics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | Discrete Graphics (Memory)                                |                |                     |                 |              | Camera                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 720p HD, 1.0MP resolution, privacy shutter, fixed focus,<br>with dual array microphone<br>HD Audio, Realtek ALC3287 codec /<br>Dolby Atoms® for Gaming Certification, Harman Kardon® speakers, 2W x 2,<br>dual array microphone, headphone / microphone combo jack                                                                                                                                  |
|                   | AMD Radeon Graphics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | NVIDIA® GeForce® GTX 1660 Ti (6GB GDDR6 memory), VR ready |                |                     |                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | NVIDIA GeForce RTX 2060 (6GB GDDR6 memory), VR ready      |                |                     |                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   | supports external digital monitor via HDMI or USB Type-C;<br>supports three independent displays;<br>Max resolution: 4096x2160@60Hz (HDMI); 3840x2160@60Hz (USB Type-C)                                                                                                                                                                                                                                                                                                                                                          |            |                                                           |                |                     |                 |              | Audio support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Chipset           | AMD SoC (System on Chip) platform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                           |                |                     |                 |              | Keyboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6-row, multimedia Fn keys, white backlight or 4-Zone RGB LED backlight,<br>numeric keypad, anti-ghost                                                                                                                                                                                                                                                                                               |
| Memory            | 16GB max offering / 3200MHz DDR4, dual-channel capable,<br>two DDR4 SO-DIMM sockets                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                                           |                |                     |                 |              | Touchpad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Buttonless Mylar surface multi-touch touchpad                                                                                                                                                                                                                                                                                                                                                       |
| Display           | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 250 nits, 16:9 aspect ratio, 45% NTSC gamut, refresh rate 120Hz</li><li>15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 300 nits, 16:9 aspect ratio, 100% sRGB gamut, refresh rate 144Hz, Dolby® Vision</li><li>15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 300 nits, 16:9 aspect ratio, 100% sRGB gamut, refresh rate 60Hz</li></ul> |            |                                                           |                |                     |                 |              | Security chip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Power-on password, hard-disk password, administrator password, security keyhole                                                                                                                                                                                                                                                                                                                     |
| Multi-touch       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                                                           |                |                     |                 |              | Fingerprint reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | None                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage           | <i>Up to 2 drives:</i> <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 4</li><li>M.2 2280SSD / PCIe NVMe, PCIe 3.0 x 4</li></ul>                                                                                                                                                                                                                                                                                                                      |            |                                                           |                |                     |                 |              | Battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Integrated Li-Polymer 60Wh or 80Wh battery,<br>supports Rapid Charge Pro (30 minutes 50%)                                                                                                                                                                                                                                                                                                           |
| Optical           | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                                                           |                |                     |                 |              | Max battery life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MobileMark® 2018: 5.7 hr (80Wh) or 4.2 hr (60Wh)<br><i>* Battery life varies significantly with hardware configurations, settings, usage, &amp; other factors</i>                                                                                                                                                                                                                                   |
| Ethernet          | Gigabit Ethernet connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                                           |                |                     |                 |              | AC adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 230W slim tip AC adapter                                                                                                                                                                                                                                                                                                                                                                            |
| WLAN + Bluetooth™ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>802.11ac 2x2 Wi-Fi + Bluetooth 5.0, M.2 Card</li><li>802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 Card</li></ul>                                                                                                                                                                                                                                                                                                                            |            |                                                           |                |                     |                 |              | Preload (optional) <i>Preloaded operating system</i> <ul style="list-style-type: none"><li>Windows® 10 Home 64</li><li>Windows 10 Pro 64</li></ul> <i>Preloaded applications (only some listed)</i> <ul style="list-style-type: none"><li>Microsoft Office Trial (with 30-day license)</li><li>Microsoft Office Home and Business 2019</li><li>Microsoft Office Home and Student 2019</li><li>Microsoft Office Professional 2019</li><li>Microsoft Office Personal 2019</li><li>Microsoft 365 Personal</li><li>Microsoft 365 Family</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dimensions        | WxDxH: 14.3" x 10.22" x 0.93-1.03"; 363.06mm x 259.61mm x 23.57-26.1mm                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                           |                |                     |                 |              | Limited warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"><li>1-year depot repair service</li><li>1-year depot repair with 2-year system board repair service</li><li>2-year/1-yr battery depot repair service</li></ul>                                                                                                                                                |
| Weight            | Starting at 5.42 lb / 2.46 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                           |                |                     |                 |              | Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ErP lot3; RoHS-compliant                                                                                                                                                                                                                                                                                                                                                                            |
| Case color        | Phantom black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                           |                |                     |                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Case material     | PC/ABS plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |                                                           |                |                     |                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                     |

Note: The specifications above may not be available in all regions and might change by regions.

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