

# Lenovo Legion 5 17ARH05H 82GN0023GE

**Product**

Lenovo Legion 5 17ARH05H

**Region**

WE

**Country/Region**

Germany

**Machine Type**

82GN

**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**

512GB SSD M.2 2280 PCIe NVMe 3.0x4

**Display**

17.3" FHD (1920x1080) WVA 300nits Anti-glare, 144Hz, 72% NTSC, Dolby Vision

**Touchscreen**

None

**Optical**

None

**Media Reader**

4-in-1 Card Reader

**Ethernet**

100/1000M

**WLAN + Bluetooth**

11ax, 2x2 + BT5.0

**Bundled Accessories**

None

**Case Material**

PC / ABS (Top), PC / ABS (Bottom)

**Camera**

720p

**Microphone**

2x, Array

**Surface Treatment**

Painting

**Color**

Phantom Black

**Keyboard**

Backlit, German

**Fingerprint Reader**

None

**TPM**

FW TPM 2.0

**Battery**

Integrated 80Wh

**Power Adapter**

230W Slim Tip

**Operating System**

None

**Bundled Software**

None

**Base Warranty**

2-year, Depot

**Bundled Service**

None

**EAN / UPC / JAN**

195348034449

**End of Support**

2026-09-13

**Announce Date**

2020-08-24



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AMD

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# Lenovo Legion 5 17ARH05H Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                                                                                         |            |                                                                                                                   |                |                     |                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------|----------------|---------------------|-----------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Processor         | AMD Ryzen™ Mobile Processors with Radeon™ Graphics                                                                                                                                                                                                                                                                                                                                      |            |                                                                                                                   |                |                     |                 |              | Media reader Ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4-in-1 media reader (MMC, SD, SDHC, SDXC)<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, card reader,<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 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Processor Graphics  |
|                   | Ryzen 5 4600H                                                                                                                                                                                                                                                                                                                                                                           | 6          | 12                                                                                                                | 3.0 GHz        | 4.0 GHz             | 3MB L2 / 8MB L3 | DDR4-3200    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AMD Radeon Graphics |
|                   | 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 Atmos® 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<br>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: 3840x2160@60Hz (HDMI); 3840x2160@60Hz (USB Type-C)                                                                                                                                                                                                                 |            |                                                                                                                   |                |                     |                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| Chipset           | AMD SoC (System on Chip) platform                                                                                                                                                                                                                                                                                                                                                       |            |                                                                                                                   |                |                     |                 |              | Keyboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6-row, multimedia Fn keys, white backlight, 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>17.3" (439mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 300 nits, 16:9 aspect ratio, 72% NTSC gamut, refresh rate 60Hz</li><li>17.3" (439mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 300 nits, 16:9 aspect ratio, 72% NTSC gamut, refresh rate 144Hz, Dolby® Vision</li></ul> |            |                                                                                                                   |                |                     |                 |              | Security                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Power-on password, hard-disk password, supervisor password, security keyhole                                                                                                                                                                                                                                                                                                                                                                          |                     |
| Multi-touch       | None                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                   |                |                     |                 |              | Security chip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Firmware TPM 2.0 integrated in chipset                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| 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 2280 SSD / PCIe NVMe, PCIe 3.0 x 4</li></ul>                                                                                                                                                                            |            |                                                                                                                   |                |                     |                 |              | Fingerprint reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |
| Optical           | None                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                   |                |                     |                 |              | Battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Integrated Li-Polymer 80Wh battery, supports Rapid Charge Pro (30 minutes 50%)                                                                                                                                                                                                                                                                                                                                                                        |                     |
| Ethernet          | Gigabit Ethernet connection                                                                                                                                                                                                                                                                                                                                                             |            |                                                                                                                   |                |                     |                 |              | Max battery life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <i>MobileMark® 2018: 7.5 hr</i><br><i>* Battery life varies significantly with hardware configurations, settings, usage, &amp; other factors</i>                                                                                                                                                                                                                                                                                                      |                     |
| 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>                                                                                                                                                                                   |            |                                                                                                                   |                |                     |                 |              | AC adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 230W slim tip AC adapter                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |
| Dimensions        | WxDxH: 15.7" x 11.41" x 0.95-1"; 398.6mm x 290mm x 24.3-26.2mm                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                   |                |                     |                 |              | 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><li><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></li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| Weight            | 6.57 lb / 2.98 kg                                                                                                                                                                                                                                                                                                                                                                       |            |                                                                                                                   |                |                     |                 |              | 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>                                                                                                                                                                                                  |                     |
| Case color        | Phantom black                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                                                                   |                |                     |                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| Surface treatment | Painting                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                                                   |                |                     |                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| Case material     | <i>Display cover:</i> PC/ABS plastic<br><i>Bottom:</i> PC/ABS plastic                                                                                                                                                                                                                                                                                                                   |            |                                                                                                                   |                |                     |                 |              | Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ErP lot3; RoHS-compliant                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |

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

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