

# IdeaCentre G5 14IMB05 90N9006VGE

**Product**

IdeaCentre G5 14IMB05

**Region**

WE

**Country/Region**

Germany

**Machine Type**

90N9

**Processor**

Intel Core i5-10400 (6C / 12T, 2.9 / 4.3GHz, 12MB)

**Graphics**

NVIDIA GeForce GTX 1650 SUPER 4GB GDDR6

**Chipset**

Intel B460

**Memory**

2x 4GB DIMM DDR4-2933

**Storage**

512GB SSD M.2 2280 NVMe Opal

**Optane Memory**

None

**Optical**

None

**Ethernet**

Integrated 100/1000M

**Media Reader**

3-in-1 Card Reader

**WLAN + Bluetooth**

11ac, 2x2 + BT5.0

**Color**

Raven Black

**Keyboard**

USB Calliope Keyboard, Black, German

**Mouse**

USB Calliope Mouse, Black

**System Fan**

1x Rear + 1x Front

**Power Supply**

310W 92% Energy Star

**Operating System**

None

**Bundled Software**

None

**Base Warranty**

2-year, Depot

**Bundled Service**

None

**End of Support**

N/A

**Announce Date**

2020-05-20



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# IdeaCentre G5 14IMB05 Intel Platform Specifications

Product Specifications Reference (PSREF)

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                      |       |              |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|-------|--------------|---------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor     | 10th Generation Intel Core™ i3 / i5 / i7 Processors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                      |       |              |                     | Audio support     | High Definition (HD) Audio Realtek ALC222-CG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|               | Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cores / Threads | Frequency (Base/Max) | Cache | Memory Types | Integrated Graphics | WLAN              | <i>Some:</i> 11ac Wi-Fi + Bluetooth 5.0 combo adapter, M.2 card, 2x2<br><i>Some:</i> 11ax Wi-Fi + Bluetooth 5.0 combo adapter, M.2 card, 2x2                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|               | Core i3-10100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 / 8           | 3.6 / 4.3 GHz        | 6 MB  | DDR4-2666    | UHD 630             | Bluetooth™        | Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|               | Core i5-10400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 / 12          | 2.9 / 4.3 GHz        | 12 MB | DDR4-2666    | UHD 630             | Ethernet          | One gigabit ethernet port                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|               | Core i5-10400F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 / 12          | 2.9 / 4.3 GHz        | 12 MB | DDR4-2666    | None                | Security features | Power-on password, administrator password, hard-disk password                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|               | Core i7-10700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8 / 16          | 2.9 / 4.8 GHz        | 16 MB | DDR4-2933    | UHD 630             | Keyboard          | Lenovo Calliope Keyboard (USB connector), black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Memory        | 32GB max, DDR4-2933*, two 288-pin DIMM sockets, dual-channel capable<br>* System automatically clocks down for the processors with lower memory controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                      |       |              |                     | Mouse             | Lenovo Calliope Mouse (USB connector), black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                      |       |              |                     | Mechanical        | <ul style="list-style-type: none"> <li>Tower (13.6L), Raven Black chassis with Chameleon front bezel</li> <li>(WxDxH) with bezel: 5.71" x 11.5" x 14.37"; 145mm x 292.2mm x 365mm</li> <li>Approx 12.79 lb (5.8 kg), weight may vary by configuration</li> <li>Optional front system fan, rear system fan</li> <li>Front panel lighting effect</li> <li>Bay 1: slim optical bay</li> <li>Bay 2: 3.5", disk bay</li> <li>Bay 3: 2.5", disk bay</li> <li>Slot 1: PCIe 3.0 x16</li> <li>Slot 2: PCIe 3.0 x1</li> <li>M.2 card slots: one for WLAN, one for M.2 SSD / Optane</li> </ul> |
| Storage       | <i>Some:</i> Hard Drive / SATA 6.0Gb/s, 3.5", 7200 rpm<br><i>Some:</i> M.2 Solid State Drive (SSD) / PCIe NVMe<br><i>Some:</i> Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                      |       |              |                     | Power supply      | <i>Some:</i> 260 watts, autosensing, 85% PSU<br><i>Some:</i> 310 watts, autosensing, 92% PSU<br><i>Some:</i> 380 watts, autosensing, 92% PSU                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Optical (opt) | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                      |       |              |                     | Limited warranty  | <ul style="list-style-type: none"> <li>1-year, mail-in service / service upgrades available</li> <li>1-year or 2-year, depot repair service / service upgrades available</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                 |
| Onboard SATA  | Three onboard SATA 6.0Gb/s connectors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                      |       |              |                     | Preload           | <b>Preloaded operating system</b><br><i>Some:</i> Windows® 10 Home 64<br><i>Some:</i> Windows 10 Pro 64<br><b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>Microsoft Office</li> <li>Lenovo® Vantage</li> <li>McAfee® LiveSafe™ (1 year version)</li> <li>PowerDVD (DVD±RW)</li> <li>Power2GO (DVD±RW)</li> </ul>                                                                                                                                                                                                                           |
| Media reader  | Optional 3-in-1 media card reader (SD / SDHC / SDXC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                      |       |              |                     | Environment       | ENERGY STAR® 8.0 (on some mode);ErP Lot 3; RoHS-compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Graphics      | <i>Some:</i> <b>Intel UHD Graphics 610/630</b> in processor, one HDMI™, one VGA, supports up to 2 independent displays, more displays support via discrete graphics; Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@50Hz<br><i>Some:</i> <b>NVIDIA® GeForce® RTX™ 2060</b> , 6GB GDDR6, DirectX 12, one HDMI, three DisplayPort™; Max resolution: 7680x4320 (HDMI)@30Hz; 7680x4320 (DP)@60Hz<br><i>Some:</i> <b>NVIDIA GeForce GTX 1660 SUPER</b> 6GB GDDR6, DirectX 12, one HDMI; Max resolution: 4096x2160 (HDMI)@60Hz; 5120x3200 (DP)@60Hz<br><i>Some:</i> <b>NVIDIA GeForce GTX 1650 SUPER</b> , 4GB GDDR6, DirectX 12, one HDMI, two DP; Max resolution: 4096x2160 (HDMI)@60Hz; 5120x3200 (DP)@60Hz<br><i>Some:</i> <b>AMD Radeon™ RX 5500</b> , 4GB GDDR6, DirectX 12, one HDMI, three DP; Max resolution: 4096x2160@60Hz (HDMI); 7680x4320 (DP)@60Hz; |                 |                      |       |              |                     | Accessories       | For compatible accessories, please go to <a href="http://smartfind.lenovo.com">http://smartfind.lenovo.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Chipset       | <b>Intel B460 platform</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                      |       |              |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Front ports   | Two USB 3.2 Gen1, one USB 3.2 Type-C Gen1, one headphone / microphone combo jack (3.5mm), optional media reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                      |       |              |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rear ports    | Four USB 2.0, one VGA, one HDMI, one ethernet (RJ-45), line-out (3.5mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                      |       |              |                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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

Lenovo, May 2020

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