

# ideacentre 510 Intel 90G800J5BG

**Product**  
ideacentre 510-15IKL

**Region**  
EET

**Country**  
Bulgaria

**Machine Type**  
90G8

**Processor**  
Core i3-7100 (2C, 3.9GHz, 3MB)

**Graphics**  
NVIDIA GeForce GTX 1050 2GB GDDR5

**Chipset**  
Intel B250

**Memory**  
8GBx1 DDR4-2400

**Storage**  
1TB 7200rpm 3.5"

**Optical**  
DVD±RW

**Media Reader**  
7-in-1

**WLAN + Bluetooth**  
11ac, 1x1 + BT4.0

**Keyboard / Mouse**  
2.4G Black / 2.4G Black

**System Fan**  
One Rear

**Power Supply**  
210W Energy Star

**Operating System**  
None

**Warranty**  
2-year, Depot

**Ann Date (mm/yy)**  
11/17



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# ideacentre 510 Intel Platform Specifications

Product Specifications Reference (PSREF)

|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               |                                                                                                                |                                                                                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|-------|--------------|------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Processor     | IKL: Intel® Celeron® Processor, Intel Pentium® Processor or 7th Generation Intel Core™ i3 / i5 / i7 Processors                                                       |                 |                      |       |              |                        | Chipset                                                       | IKL: Intel B250 platform ICB: Intel B360 platform                                                              |                                                                                              |
|               | Processor                                                                                                                                                            | Cores / Threads | Frequency (Base/Max) | Cache | Memory Types | Integrated Graphics    | Front ports*                                                  | All:                                                                                                           | one headphone / microphone combo jack (3.5mm), one microphone (3.5mm), optional media reader |
|               | Celeron G3930                                                                                                                                                        | 2 / 2           | 2.9 GHz              | 2 MB  | DDR4-2133    | Intel HD Graphics 610  |                                                               | ICB:                                                                                                           | two USB 3.1 Gen1, two USB 3.1 Gen2, one USB 3.1 Type-C Gen1                                  |
|               | Pentium G4560                                                                                                                                                        | 2 / 4           | 3.5 GHz              | 3 MB  | DDR4-2400    | Intel HD Graphics 630  | Rear ports*                                                   | IKL:                                                                                                           | four USB 3.1 Gen1                                                                            |
|               | Core i3-7100                                                                                                                                                         | 2 / 4           | 3.9 GHz              | 3 MB  |              |                        | All:                                                          | power connector, one VGA-out, one HDMI-out, one ethernet (RJ-45)                                               |                                                                                              |
|               | Core i5-7400                                                                                                                                                         | 4 / 4           | 3.0 GHz / 3.5 GHz    | 6 MB  |              |                        | ICB:                                                          | four USB 2.0                                                                                                   |                                                                                              |
|               | Core i7-7700                                                                                                                                                         | 4 / 8           | 3.6 GHz / 4.2 GHz    | 8 MB  |              |                        | Rear audio ports                                              | IKL:                                                                                                           | two USB 2.0, two USB 3.1 Gen1                                                                |
|               | ICB: Intel Celeron Processor, Intel Pentium Gold Processor or 8th Generation Intel Core i3 / i5 / i7 Processors                                                      |                 |                      |       |              |                        | IEEE 1394                                                     | ICB:                                                                                                           | one headphone / microphone combo jack (3.5mm)                                                |
|               | Processor                                                                                                                                                            | Cores / Threads | Frequency (Base/Max) | Cache | Memory Types | Integrated Graphics    |                                                               | IKL:                                                                                                           | line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)                                     |
|               | Celeron G4900                                                                                                                                                        | 2 / 2           | 3.1 GHz              | 2 MB  | DDR4-2400    | Intel UHD Graphics 610 | Audio support                                                 | None                                                                                                           |                                                                                              |
|               | Pentium Gold G5400                                                                                                                                                   | 2 / 4           | 3.7 GHz              | 4 MB  |              | Intel UHD Graphics 630 |                                                               | High Definition (HD) Audio                                                                                     |                                                                                              |
|               | Core i3-8100                                                                                                                                                         | 4 / 4           | 3.6 GHz              | 6 MB  |              |                        | WLAN (opt)                                                    | IKL: Realtek ALC662 / Dolby Atoms® Audio                                                                       |                                                                                              |
|               | Core i5-8400                                                                                                                                                         | 6 / 6           | 2.8 GHz / 4.0 GHz    | 9 MB  | DDR4-2666    |                        | Bluetooth™ (opt)                                              | ICB: Realtek ALC233 / Dolby Atoms Audio                                                                        |                                                                                              |
|               | Core i7-8700                                                                                                                                                         | 6 / 12          | 3.2 GHz / 4.6 GHz    | 12 MB |              | Ethernet Modem         | Some: 11ac Wi-Fi + Bluetooth 4.0 combo adapter, M.2 card, 1x1 |                                                                                                                |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        | Some: 11ac Wi-Fi + Bluetooth 4.0 combo adapter, M.2 card, 2x2 |                                                                                                                |                                                                                              |
| Memory        | IKL: 16GB max offering, UDIMM, DDR4-2400, two 288-pin DIMM sockets                                                                                                   |                 |                      |       |              |                        | Security chip                                                 | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter                                          |                                                                                              |
|               | ICB: 16GB max offering, UDIMM, DDR4-2666, two 288-pin DIMM sockets                                                                                                   |                 |                      |       |              |                        | Security features                                             | Gigabit ethernet Realtek® RTL8111GN (for IKL) or Intel I219-V (for ICB)                                        |                                                                                              |
|               | * System automatically clocks down for the processors with lower memory controller                                                                                   |                 |                      |       |              |                        | Keyboard (opt)                                                | None                                                                                                           |                                                                                              |
| Storage       | Some: Hard Drive / SATA 6.0Gb/s, 3.5", 7200 rpm                                                                                                                      |                 |                      |       |              |                        | Mouse                                                         | Power-on password, administrator password, hard-disk password, Kensington® lock                                |                                                                                              |
|               | Some: M.2 SSD / SATA 6.0Gb/s                                                                                                                                         |                 |                      |       |              |                        |                                                               | Lenovo Calliope Keyboard (USB connector), black or silver                                                      |                                                                                              |
|               | Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x4, 32Gb/s                                                                                                   |                 |                      |       |              |                        |                                                               | Lenovo Wireless Keyboard (2.4GHz via USB receiver), black or silver                                            |                                                                                              |
|               | Some: Intel Optane™ Memory, PCIe NVMe, PCIe 3.0 x2, 16Gb/s, M.2                                                                                                      |                 |                      |       |              |                        |                                                               | Lenovo Calliope Mouse (USB connector), black or silver                                                         |                                                                                              |
|               | * 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s                                                                                                  |                 |                      |       |              |                        |                                                               | Lenovo Wireless Mouse (2.4GHz via USB receiver), black or silver                                               |                                                                                              |
| Optical (opt) | DVD Burner (DVD±RW), slim, 9.0mm high                                                                                                                                |                 |                      |       |              |                        | Mechanical                                                    | ● Tower (15L), black / silver color, metal case                                                                |                                                                                              |
| Onboard SATA  | Three onboard SATA 6.0Gb/s connectors                                                                                                                                |                 |                      |       |              |                        |                                                               | ● (WxDxH) with bezel: 5.71" x 11.22" x 14.41"; 145mm x 285.2mm x 366.03mm                                      |                                                                                              |
| Media reader  | Optional 7-in-1 media card reader                                                                                                                                    |                 |                      |       |              |                        |                                                               | ● Approx 12.8 lb (5.8 kg), weight may vary by configuration                                                    |                                                                                              |
| Graphics      | Some: Intel HD Graphics 610 / 630 or Intel UHD Graphics 610 / 630 in processor, Max resolution: 1920x1080@30Hz (HDMI); 1920x1200@60Hz (VGA)                          |                 |                      |       |              |                        |                                                               | ● Optional front / rear system fan                                                                             |                                                                                              |
|               | Some: NVIDIA® GeForce® GT 730, 1GB or 2GB GDDR5, DirectX 12, one VGA, one HDMI; Max resolution: 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz;                         |                 |                      |       |              |                        |                                                               | Bay 1: slim optical bay                                                                                        |                                                                                              |
|               | Some: NVIDIA® GeForce® GT 730, 2GB GDDR3, DirectX 12, one VGA, one HDMI; Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz;                                |                 |                      |       |              |                        |                                                               | Bay 2: 3.5", disk bay                                                                                          |                                                                                              |
|               | Some: NVIDIA GeForce GTX 1050, 2GB GDDR5, DirectX 12, one DVI, one HDMI, one DP; Max resolution: 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz; 2560x1600 (DVI)@60Hz    |                 |                      |       |              |                        |                                                               | Bay 3: 3.5" or 2.5", disk bay                                                                                  |                                                                                              |
|               | Some: NVIDIA GeForce GTX 1050 Ti, 4GB GDDR5, DirectX 12, one DVI, one HDMI, one DP; Max resolution: 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz; 2560x1600 (DVI)@60Hz |                 |                      |       |              |                        |                                                               | Slot 1: full-length half-height, PCIe 3.0 x16                                                                  |                                                                                              |
|               | Some: AMD Radeon™ RX 460, 4GB GDDR5, DirectX 12, one HDMI, one DP, one DVI; Max resolution: 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz; 2560x1600 (DVI)@60Hz         |                 |                      |       |              |                        |                                                               | Slot 2: full-length half-height, PCIe 3.0 x1                                                                   |                                                                                              |
|               | Some: AMD Radeon RX 550, 2GB GDDR5, DirectX 12, one HDMI, one VGA, one DP; Max resolution: 4096x2160 (HDMI)@60Hz; 5120x2880 (DP)@60Hz; 2048x1536 (VGA)@60Hz          |                 |                      |       |              |                        |                                                               | M.2 card slots: one for WLAN, one for M.2 SSD / Optane                                                         |                                                                                              |
|               | Some: AMD Radeon RX 560, 4GB GDDR5, DirectX 12, one HDMI, one DVI, one DP; Max resolution: 4096x2160 (HDMI)@60Hz; 5120x2880 (DP)@60Hz; 2560x1600 (DVI)@60Hz          |                 |                      |       |              |                        | Power supply                                                  | Some: 180 watts, autosensing, 85% PSU                                                                          |                                                                                              |
|               | Some: AMD Radeon R7 350, 2GB GDDR5, DirectX 11, one VGA, one HDMI; Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz;                                      |                 |                      |       |              |                        |                                                               | Some: 210 watts, autosensing, 85% PSU                                                                          |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        | Limited warranty                                              | 1-year or 2-year, depot repair service / service upgrades available                                            |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        | Preload                                                       | Preloaded operating system                                                                                     |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | Windows® 10 Home 64 or Windows 10 Pro 64                                                                       |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | Preloaded applications (only some listed)                                                                      |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | ● Microsoft Office preloaded;                                                                                  |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | ● purchase a product key to activate                                                                           |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | ● Lenovo® Application Explorer                                                                                 |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | ● Lenovo PC Manager                                                                                            |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | ● McAfee® LiveSafe™ (30-day trial)                                                                             |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | ● PowerDVD (DVD±RW)                                                                                            |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | ● Power2GO (DVD±RW)                                                                                            |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        | Environment                                                   | ICB: ENERGY STAR® 6.1 (support version 7.0 after November); ErP Lot 3; RoHS-compliant                          |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        |                                                               | IKL: ENERGY STAR 6.1; ErP Lot 3; GREENGURAD®; RoHS-compliant                                                   |                                                                                              |
|               |                                                                                                                                                                      |                 |                      |       |              |                        | Accessories                                                   | For compatible accessories, please go to <a href="http://smartfind.lenovo.com">http://smartfind.lenovo.com</a> |                                                                                              |

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

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