# ideacentre 510-15IKL 90G800J1GF

***Product***
ideacentre 510-15IKL

***Region***
WE

***Country/Region***
Germany

***Machine Type***
90G8

***Processor***
Intel Core i5-7400 (4C / 4T, 3.0 / 3.5GHz, 6MB)

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

***Chipset***
Intel B250

***Memory***
1x 8GB DIMM DDR4-2400

***Storage***
256GB SSD M.2 2280 PCIe + 1TB HDD 7200rpm 3.5"

***Optane Memory***
None

***Optical***
DVD±RW

***Ethernet***
Integrated 100/1000M

***Media Reader***
7-in-1

***WLAN + Bluetooth***
None

***Color***
Chassis: Black bezel: silver

***Keyboard***
None

***Mouse***
None

***System Fan***
One Rear

***Power Supply***
210W 85% Energy Star

***Operating System***
Windows 10 Home 64, German

***Bundled Software***
None

***Base Warranty***
2-year, Depot

***Bundled Service***
None

***EAN / UPC***
192158597034

***End of Support***
N/A

***Announce Date***
2019-05-12

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***Recommended Services***

***Best***
3Y Onsite upgrade from 2Y Depot/CCI (5WS0K82801)

***Better***
3Y Dept/CCI upgrade from 2Y Depot CCI (5WS0K82802)

***Good***
2Y Onsite upgrade from 2Y Depot/CCI (5WS0K82805)

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# ideacentre 510-15IKL Platform Specifications



**Processor**

Intel® Celeron® Processor, Intel Pentium® Processor or
7th Generation Intel Core™ i3 / i5 / i7 Processors

| Processor | Cores / Threads | Frequency (Base/Max) | Cache | Memory Types | Integrated Graphics |
|---|---|---|---|---|---|
| Celeron G3900 | 2 / 2 | 2.8 GHz | 2 MB | DDR4-2133 | Intel HD Graphics 510 |
| Celeron G3930 | 2 / 2 | 2.9 GHz | 2 MB | | Intel HD Graphics 610 |
| Pentium G4560 | 2 / 4 | 3.5 GHz | 3 MB | DDR4-2400 | |
| Core i3-7100 | 2 / 4 | 3.9 GHz | 3 MB | | Intel HD Graphics 630 |
| Core i5-7400 | 4 / 4 | 3.0 GHz / 3.5 GHz | 6 MB | | |
| Core i7-7700 | 4 / 8 | 3.6 GHz / 4.2 GHz | 8 MB | | |

**Memory**

16GB max offering, UDIMM, DDR4-2400, two 288-pin DIMM sockets
* System automatically clocks down for the processors with lower memory controller

**Storage**

*Some:* Hard Drive / SATA 6.0Gb/s, 3.5", 7200 rpm
*Some:* M.2 SSD / SATA 6.0Gb/s
*Some:* M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x4, 32Gb/s
*Some:* Intel Optane™ Memory, PCIe NVMe, PCIe 3.0 x2, 16Gb/s, M.2
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

Optical *(opt)* DVD Burner (DVD±RW), slim, 9.0mm high
Onboard SATA Three onboard SATA 6.0Gb/s connectors
Media reader Optional 7-in-1 media card reader

**Graphics**

*Some:* **Intel HD Graphics 510 / 610 / 630** in processor,
*Max resolution:* 1920x1080@30Hz (HDMI); 1920x1200@60Hz (VGA)
*Some:* **NVIDIA® GeForce® GT 730**, **1GB or 2GB GDDR5**, DirectX 12,
one VGA, one HDMI;
*Max resolution:* 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz;
*Some:* **NVIDIA® GeForce® GT 730**, **2GB GDDR3**, DirectX 12,
one VGA, one HDMI;
*Max resolution:* 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz;
*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
*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
*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
*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
*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
*Some:* **AMD Radeon R7 350**, **2GB GDDR5**, DirectX 11,
one VGA, one HDMI;
*Max resolution:* 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz;

**Chipset** **Intel B250 platform**

**Front ports*** one headphone / microphone combo jack (3.5mm), one microphone (3.5mm), optional media reader, four USB 3.1 Gen1
**Rear ports*** power connector, one VGA-out, one HDMI-out, one ethernet (RJ-45), two USB 2.0, two USB 3.1 Gen1
**Rear audio ports** one headphone / microphone combo jack (3.5mm)
**IEEE 1394** None
** Depending on many factors, actual data transfer speed may be lower than theoretical speed*

**Audio support** High Definition (HD) Audio, Realtek ALC662 / Dolby Atoms® Audio

**WLAN *(opt)*** *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
**Bluetooth™ *(opt)*** Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
**Ethernet** Gigabit ethernet Realtek® RTL8111GN (for IKL) or Intel I219-V (for ICB)
**Modem** None

**Security chip** None
**Security features** Power-on password, administrator password, hard-disk password, Kensington® lock

**Keyboard (opt)** Lenovo Calliope Keyboard (USB connector), black or silver
Lenovo Wireless Keyboard (2.4GHz via USB receiver), black or silver
**Mouse** Lenovo Calliope Mouse (USB connector), black or silver
Lenovo Wireless Mouse (2.4GHz via USB receiver), black or silver

**Mechanical**
- Tower (15L), chassis black, bezel silver color, metal case
- *(WxDxH) with bezel:* 5.71" x 11.22" x 14.41"; 145mm x 285.2mm x 366.03mm
- Approx 12.8 lb (5.8 kg), weight may vary by configuration
- Optional front / rear system fan

Bay 1: slim optical bay
Bay 2: 3.5", disk bay
Bay 3: 3.5" or 2.5", disk bay
Slot 1: full-length half-height, PCIe 3.0 x16
Slot 2: full-length half-height, PCIe 3.0 x1
M.2 card slots: one for WLAN, one for M.2 SSD / Optane

**Power supply** *Some:* 180 watts, autosensing, 85% PSU
*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** ENERGY STAR 6.1; ErP Lot 3; GREENGUARD®; RoHS-compliant

**Accessories** For compatible accessories, please go to **http://smartfind.lenovo.com**

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

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