# ideacentre 510A-15ARR 90J0006GGE

***Product***
ideacentre 510A-15ARR

***Region***
WE

***Country/Region***
Germany

***Machine Type***
90J0

***Processor***
AMD Athlon 300GE (2C / 4T, 3.4GHz, 1MB L2 / 4MB L3)

***Graphics***
Integrated AMD Radeon Vega 3 Graphics

***Chipset***
AMD SoC Platform

***Memory***
2x 4GB DIMM DDR4-2666

***Storage***
256GB SSD M.2 2280 PCIe

***Optical***
9.0mm DVD±RW

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

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

***Keyboard / Mouse***
USB Black / USB Black

***System Fan***
One Rear

***Power Supply***
180W 85% Energy Star

***Operating System***
Windows 10 Home 64

***Color***
Black

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

***Upsell Service Bundles***
None

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

***EAN / UPC***
193638878162

***Announce Date***
2019-08-30

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# ideacentre 510A-15ARR Platform Specifications



**Processor**

AMD Ryzen™ 3 / 5 series processor

| Processor | Cores / Threads | Frequency (Base/Max) | Cache | Memory Type | Integrated Graphics |
|---|---|---|---|---|---|
| Ryzen 3 2200G | 4 / 4 | 3.5 GHz / 3.7 GHz | 2 MB | DDR4-2666 | Radeon Vega 8 Graphics |
| Ryzen 5 2400G | 4 / 8 | 3.6 GHz / 3.9 GHz | | | Radeon RX Vega 11 Graphics |

**Memory**

32GB max, 2666MHz DDR4, two sockets, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

**Storage**

*Some:* SATA 6.0Gb/s, 3.5" wide, 7200 rpm
*Some:* M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x2, 16Gb/s

Optical *(opt)* DVD±RW, SATA 1.5Gb/s, slim
Onboard SATA SATA 6.0Gb/s controller, two SATA 6.0Gb/s connectors
Media reader *Opitonal* 7-in-1 media reader (SD, SDHC, SDXC, MMC, MS, MS-Pro, MMC plus)

**Graphics**

*Some:* AMD Radeon R5 or R7 Graphics in processor, uses main memory, DirectX 12, one VGA, one HDMI
*Max resolution:* 4096x2160@24Hz (HDMI); 3840x2160@60Hz (VGA)
*Some:* AMD Radeon Vega 8 or RX Vega 11 Graphics in processor, uses main memory, DirectX 12,
*Max resolution:* 4096x2160@24Hz (HDMI); 3840x2160@60Hz (VGA)
*Some:* **AMD Radeon RX 550**, **2GB GDDR5**, DirectX 12, one HDMI, one DVI, one DP;
*Max resolution:* 4096x2160 (HDMI)@60Hz; 5120x2880 (DP)@60Hz; 2560x1600 (DVI)@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

**Chipset**

AMD B300 Chipset

**Front ports***

One headphone / microphone combo jack (3.5mm), two USB 3.1 Gen1, one microphone (3.5mm), optional media reader, two USB 2.0

Rear ports* Two USB 2.0, ethernet (RJ-45), VGA, HDMI (1.4)
Rear audio ports Line-in (3.5mm), line-out (3.5mm), microphone-in (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

WLAN 11ac, M.2 Card, Wi-Fi + Bluetooth combo adapter, 1x1
Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet One gigabit ethernet port, RTL8111GN
Modem None

**Security features**

- Power-on password
- Administrator password
- Hard-disk password

Keyboard Lenovo Calliope Keyboard (USB connector), Fn keys, black
Mouse Lenovo Calliope Mouse (USB connector), black

**Mechanical**

- Tower (15L), black color
- Dimensions (WxDxH): 5.71" x 11.22" x 14.41"; 145mm x 285.2mm x 366.03mm
- Weights (net weight): 15.1 lb (6.85 kg), weight may vary by configuration
- Optional front and 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

**Power supply**

*Some:* 180 watts, autosensing, 85% PSU, EnergyStar 6.1, universal (100V-240V)
*Some:* 210 watts, autosensing, 85% PSU, EnergyStar 6.1, universal (100V-240V)

**Limited warranty**

- 1-year or 2-year, depot repair service / service upgrades available
- 1-year, limited mail-in service / service upgrades available

**Preload**

Preloaded operating system
Windows® 10 Home 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 (support version 7.0 after November); ErP Lot 3; RoHS-compliant

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