# ideacentre 510A-15ARR 90J000B1GE

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

***Region***
WE

***Country/Region***
Germany

***Machine Type***
90J0

***Processor***
AMD Ryzen 5 3400G (4C / 8T, 3.7 / 4.2GHz, 2MB L2 / 4MB L3)

***Graphics***
Integrated AMD Radeon RX Vega 11 Graphics

***Chipset***
AMD SoC Platform

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

***Storage***
512GB SSD M.2 2280 PCIe NVMe

***Optical***
1x 9.0mm DVD±RW

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

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

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

***Color***
Chassis: Black bezel: Iron grey

***Keyboard***
USB Calliope Keyboard, Black, German

***Mouse***
USB Calliope Mouse, Black

***System Fan***
1x Rear

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

***Operating System***
None

***Bundled Software***
None

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

***Bundled Service***
None

***EAN / UPC / JAN***
194778587457

***End of Support***
2021-03-12

***Announce Date***
2020-02-12

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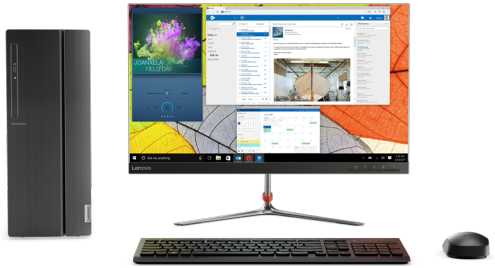


# ideacentre 510A-15ARR Platform Specifications



**Processor**

AMD Athlon or A series or 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 |
| Ryzen 3 3200G | 4 / 4 | 3.6 GHz / 4.0 GHz | | DDR4-2933 | Radeon Vega 8 Graphics |
| Ryzen 5 3400G | 4 / 8 | 3.7 GHz / 4.2 GHz | 4 MB | DDR4-2933 | Radeon RX Vega 11 Graphics |
| Athlon 200GE | 2 / 4 | 3.2 GHz | 1 MB | DDR4-2666 | Radeon Vega 3 Graphics |
| Athlon 300GE | 2 / 4 | 3.4 GHz | 1 MB | DDR4-2666 | Radeon Vega 3 Graphics |
| PRO A6-8570 | 2 / 2 | 3.5 GHz / 3.8GHz | 1 MB | DDR4-2400 | Radeon R5 |
| A6-9500 | 2 / - | 3.5 GHz / 3.8 GHz | 1 MB | DDR4-2400 | Radeon R5 |
| A8-9600 | 4 / - | 3.1 GHz / 3.4 GHz | 2 MB | DDR4-2400 | Radeon R7 |
| A10-9700 | 4 / - | 3.5 GHz / 3.8 GHz | 2 MB | DDR4-2400 | Radeon R7 |
| A12-9800 | 4 / - | 3.8 GHz / 4.2 GHz | 2 MB | DDR4-2400 | Radeon R7 |

**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

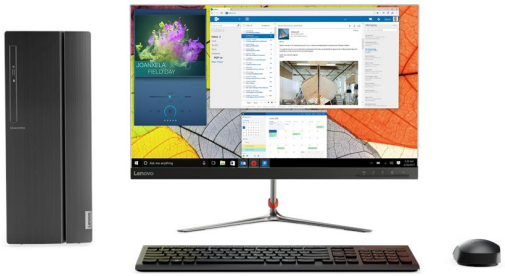
**Mechanical**
- Tower (15L), black chassis, iron grey bezel
- Dimensions (WxDxH): 5.71" x 11.22" x 14.41"; 145mm x 285.2mm x 366.03mm
- Weights (net weight): 15.1 lb (6.85 kg), weight may vary by configuration
- Optional front and rear system fan

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 7.0; ErP Lot 3; RoHS-compliant

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