

ideacentre 510A [90J0001AGE](#)

Region
WE

Country
Germany

Machine Type
90J0

Processor
AMD Ryzen 3 2200G (4C, 3.5 / 3.7GHz, 2MB)

Graphics
Integrated AMD Radeon Vega 8 Graphics

Chipset
AMD B300

Memory
4GBx2 DDR4-2666

Storage
128GB SSD M.2 (2242) PCIe NVMe + 1TB
7200rpm 3.5"

Optical
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 Energy Star

Operating System
None

Warranty
2-year, Depot

Ann Date (mm/yy)
06/18

Note:

Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "***" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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ideacentre 510A Intel Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Pentium® Processor or 7th Generation Intel Core™ i3 / i5 / i7 Processors						Security features		- Power-on password - Administrator password - Hard-disk password
	Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Type	Integrated Graphics	Keyboard Mouse	Lenovo Calliope Keyboard (USB connector), Fn keys, black Lenovo Calliope Mouse (USB connector), black	
	Pentium G4560	2 / 4	3.5 GHz	3 MB	DDR4-2400	Intel HD Graphics 610			
	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	32GB max, 2400MHz DDR4, two sockets, dual-channel capable						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): <i>IKL</i>: 12.8 lb (5.8 kg); <i>Others</i>: 15.1 lb (6.85 kg) - Optional front and rear system fan - Bay 1: 9.0mm for slim optical - Bay 2: 3.5", disk - Bay 3: 3.5" or 2.5", disk - 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	
Storage	<i>Some</i> : SATA 6.0Gb/s, 3.5" wide, 7200 rpm <i>Some</i> : M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x4, 32Gb/s <i>Some</i> : 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±RW, SATA 1.5Gb/s, slim								
Onboard SATA	SATA 6.0Gb/s controller, three SATA 6.0Gb/s connectors								
Media reader	<i>Optional</i> 7-in-1 media reader (SD, SDHC, SDXC, MMC, MS, MS-Pro, MMC plus)								
Graphics	Intel HD Graphics 610 or 630 in processor, uses main memory, DirectX 12, one VGA, one HDMI 1920x1080@30Hz (HDMI); 1920x1200@60Hz (VGA)						Power supply	<i>Some</i> : 180 watts, autosensing, 85% PSU, EnergyStar 6.1, universal (110V-220V) <i>Some</i> : 210 watts, autosensing, 85% PSU, EnergyStar 6.1, universal (110V-220V)	
Chipset	Intel B250 Chipset						Limited warranty	1-year or 2-year, depot repair service / service upgrades available	
Front ports	One headphone / microphone combo jack (3.5mm), four USB 3.1 Gen1, one microphone (3.5mm), optional media reader						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)	
Rear ports	Two USB 2.0, two USB 3.1 Gen1, ethernet (RJ-45), one VGA, one HDMI								
Rear audio ports	Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)								
IEEE 1394	None								
Audio support	High Definition (HD) Audio, Realtek ALC662								
WLAN	11ac, M.2 Card, Wi-Fi + Bluetooth combo adapter, 1x1						Environment	ENERGY STAR® 6.1 (support version 7.0 after November); ErP Lot 3; RoHS-compliant	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								
Ethernet	One gigabit ethernet port								
Modem	None								

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Processor	ABR: AMD A series APUs					
	Processor	Cores	Frequency (Base/Max)	Cache	Memory Type	Integrated Graphics
	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		Radeon R7
	A10-9700	4	3.5 GHz / 3.8 GHz	2 MB		
	A12-9800	4	3.8 GHz / 4.2 GHz	2 MB		
	ARR: 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	ARR: 32GB max, 2666MHz DDR4, two sockets, dual-channel capable ABR: 32GB max, 2400MHz DDR4, two sockets, dual-channel capable					
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 DVD±RW, SATA 1.5Gb/s, slim					
Optical (opt)	SATA 6.0Gb/s controller, two SATA 6.0Gb/s connectors					
Onboard SATA	Optonal 7-in-1 media reader (SD, SDHC, SDXC, MMC, MS, MS-Pro, MMC plus)					
Media reader						
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; 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					
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					
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						
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): IKL: 12.8 lb (5.8 kg); Others: 15.1 lb (6.85 kg) ● Optional front and rear system fan Bay 1: 9.0mm for slim optical Bay 2: 3.5", disk Bay 3: 3.5" or 2.5", disk 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 (110V-220V) Some: 210 watts, autosensing, 85% PSU, EnergyStar 6.1, universal (110V-220V)						
Limited warranty						
1-year or 2-year, depot repair 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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