

ideacentre 510A 90J0001HGE

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
4GBx1 DDR4-2666

Storage
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
Windows 10 Home 64

Warranty
2-year, Depot

Ann Date (mm/yy)
07/18

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								
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								- 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
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)								
Chipset	Intel B250 Chipset								
Front ports	One headphone / microphone combo jack (3.5mm), four USB 3.1 Gen1, one microphone (3.5mm), optional media reader								
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								
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								
Ethernet	One gigabit ethernet port								
Modem	None								
							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)	
							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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Processor	ABR: AMD A series APUs						Audio support	High Definition (HD) Audio, Realtek ALC662
	Processor	Cores	Frequency (Base/Max)	Cache	Memory Type	Integrated Graphics	WLAN	11ac, M.2 Card, Wi-Fi + Bluetooth combo adapter, 1x1
	A6-9500	2	3.5 GHz / 3.8 GHz	1 MB	DDR4-2400	Radeon™ R5	Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
	A8-9600	4	3.1 GHz / 3.4 GHz	2 MB		Radeon R7	Ethernet	One gigabit ethernet port
	A10-9700	4	3.5 GHz / 3.8 GHz	2 MB			Modem	None
	A12-9800	4	3.8 GHz / 4.2 GHz	2 MB			Security features	- Power-on password - Administrator password - Hard-disk password
	ARR: AMD Ryzen™ 3 / 5 series processor						Keyboard	Lenovo Calliope Keyboard (USB connector), Fn keys, black
	Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Type	Integrated Graphics	Mouse	Lenovo Calliope Mouse (USB connector), black
	Ryzen 3 2200G	4 / 4	3.5 GHz / 3.7 GHz	2 MB	DDR4-2666	Radeon Vega 8 Graphics	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
	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						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)
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						Limited warranty	1-year or 2-year, depot repair service / service upgrades available
Optical (opt)	DVD±RW, SATA 1.5Gb/s, slim						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)
Onboard SATA	SATA 6.0Gb/s controller, two SATA 6.0Gb/s connectors						Environment	ENERGY STAR® 6.1 (support version 7.0 after November); ErP Lot 3; RoHS-compliant
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; 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							

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