

ideacentre 510 Intel 90HU006NGE

Region
WE

Country
Germany

Machine Type
90HU

Processor
Core i3-8100 (4C, 3.6GHz, 6MB)

Graphics
Integrated Intel UHD Graphics 630

Chipset
Intel B360

Memory
4GBx2 DDR4-2666

Storage
128GB SSD + 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)
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 510 Intel Platform Specifications

Product Specifications Reference (PSREF)

Processor	<i>IKL:</i> 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 G3930	2 / 2	2.9 GHz	2 MB	DDR4-2133	Intel HD Graphics 610
	Pentium G4560	2 / 4	3.5 GHz	3 MB	DDR4-2400	Intel HD Graphics 630
	Core i3-7100	2 / 4	3.9 GHz	3 MB		
	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		
	<i>ICB:</i> Intel Celeron Processor, Intel Pentium Gold Processor or 8th Generation Intel Core i3 / i5 / i7 Processors					
	Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
	Celeron G4900	2 / 2	3.1 GHz	2 MB	DDR4-2400	Intel UHD Graphics 610
	Pentium Gold G5400	2 / 4	3.7 GHz	4 MB		Intel UHD Graphics 630
	Core i3-8100	4 / 4	3.6 GHz	6 MB		
	Core i5-8400	6 / 6	2.8 GHz / 4.0 GHz	9 MB	DDR4-2666	
	Core i7-8700	6 / 12	3.2 GHz / 4.6 GHz	12 MB		
Memory	<i>IKL:</i> 16GB max offering, UDIMM, DDR4-2400, two 288-pin DIMM sockets <i>ICB:</i> 16GB max offering, UDIMM, DDR4-2666, two 288-pin DIMM sockets * System automatically clocks down for the processors with lower memory controller					
Storage	<i>Some:</i> Hard Drive / SATA 6.0Gb/s, 3.5", 7200 rpm <i>Some:</i> M.2 SSD / SATA 6.0Gb/s <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 DVD Burner (DVD±RW), slim, 9.0mm high Three onboard SATA 6.0Gb/s connectors Optional 7-in-1 media card reader					
Optical (<i>opt</i>) Onboard SATA Media reader						
Graphics	<i>Some:</i> Intel HD Graphics 610 / 630 or Intel UHD Graphics 610 / 630 in processor, Max resolution: 1920x1080@30Hz (HDMI); 1920x1200@60Hz (VGA) <i>Some:</i> NVIDIA® GeForce® GT 730, 1GB or 2GB GDDR5, DirectX 12, one VGA, one HDMI; Max resolution: 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz; <i>Some:</i> NVIDIA® GeForce® GT 730, 2GB GDDR3, DirectX 12, one VGA, one HDMI; Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz; <i>Some:</i> 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 <i>Some:</i> 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 <i>Some:</i> 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 <i>Some:</i> 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 <i>Some:</i> 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 <i>Some:</i> AMD Radeon R7 350, 2GB GDDR5, DirectX 11, one VGA, one HDMI; Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz;					
Chipset	<i>IKL:</i> Intel B250 platform <i>ICB:</i> Intel B360 platform					
Front ports	<i>All:</i> one headphone / microphone combo jack (3.5mm), one microphone (3.5mm), optional media reader <i>ICB:</i> two USB 3.1 Gen1, two USB 3.1 Gen2, one USB 3.1 Type-C Gen1 <i>IKL:</i> four USB 3.1 Gen1					
Rear ports	<i>All:</i> power connector, one VGA-out, one HDMI-out, one ethernet (RJ-45) <i>ICB:</i> four USB 2.0 <i>IKL:</i> two USB 2.0, two USB 3.1 Gen1					
Rear audio ports	<i>ICB:</i> one headphone / microphone combo jack (3.5mm) <i>IKL:</i> line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)					
IEEE 1394	None					
Audio support	High Definition (HD) Audio <i>IKL:</i> Realtek ALC662 / Dolby Atoms® Audio <i>ICB:</i> Realtek ALC233 / Dolby Atoms Audio					
WLAN (<i>opt</i>)	<i>Some:</i> 11ac Wi-Fi + Bluetooth 4.0 combo adapter, M.2 card, 1x1 <i>Some:</i> 11ac Wi-Fi + Bluetooth 4.0 combo adapter, M.2 card, 2x2					
Bluetooth™ (<i>opt</i>)	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					
Ethernet Modem	Gigabit ethernet Realtek® RTL8111GN (for IKL) or Intel I219-V (for ICB) None					
Security chip	None					
Security features	Power-on password, administrator password, hard-disk password, Kensington® lock					
Keyboard (<i>opt</i>)	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), black / 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	<i>Some:</i> 180 watts, autosensing, 85% PSU <i>Some:</i> 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	<i>ICB:</i> ENERGY STAR® 6.1 (support version 7.0 after November); ErP Lot 3; RoHS-compliant <i>IKL:</i> ENERGY STAR 6.1; ErP Lot 3; GREENGURAD®; RoHS-compliant					
Accessories	For compatible accessories, please go to http://smartfind.lenovo.com					

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