

ideacentre 510S 90GB00K3SP

Region
WE

Country
Spain

Machine Type
90GB

Processor
Core i3-7100 (2C, 3.9GHz, 3MB)

Graphics
Integrated Intel HD Graphics 630

Chipset
Intel B250

Memory
8GBx1

Storage
1TB 7200rpm 3.5"

Optical
None

Media Reader
None

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

Keyboard / Mouse
USB Black / USB Black

System Fan
None

Power Supply
180W Energy Star

Operating System
Windows 10 Home 64

Warranty
2-year, Depot

Ann Date (mm/yy)
04/18

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 510S 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 <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Base/Max)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron G3930</td> <td>2 / 2</td> <td>2.9 GHz</td> <td>2 MB</td> <td>DDR4-2133</td> <td>Intel HD Graphics 610</td> </tr> <tr> <td>Pentium G4560</td> <td>2 / 4</td> <td>3.5 GHz</td> <td>3 MB</td> <td rowspan="3">DDR4-2400</td> <td rowspan="3">Intel HD Graphics 630</td> </tr> <tr> <td>Core i3-7100</td> <td>2 / 4</td> <td>3.9 GHz</td> <td>3 MB</td> </tr> <tr> <td>Core i5-7400</td> <td>4 / 4</td> <td>3.0 GHz / 3.5 GHz</td> <td>6 MB</td> </tr> <tr> <td>Core i7-7700</td> <td>4 / 8</td> <td>3.6 GHz / 4.2 GHz</td> <td>8 MB</td> <td></td> <td></td> </tr> </tbody> </table> <i>ICB:</i> Intel Celeron Processor, Intel Pentium Processor or 8th Generation Intel Core i3 / i5 / i7 Processors <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Base/Max)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron G4900</td> <td>2 / 2</td> <td>3.1 GHz</td> <td>2 MB</td> <td rowspan="2">DDR4-2400</td> <td>Intel UHD Graphics 610</td> </tr> <tr> <td>Pentium Gold G5400</td> <td>2 / 4</td> <td>3.7 GHz</td> <td>4 MB</td> <td>Intel UHD Graphics 630</td> </tr> <tr> <td>Core i3-8100</td> <td>4 / 4</td> <td>3.6 GHz</td> <td>6 MB</td> <td rowspan="3">DDR4-2666</td> <td rowspan="3">Intel UHD Graphics 630</td> </tr> <tr> <td>Core i5-8400</td> <td>6 / 6</td> <td>2.8 GHz / 4.0 GHz</td> <td>9 MB</td> </tr> <tr> <td>Core i7-8700</td> <td>6 / 12</td> <td>3.2 GHz / 4.6 GHz</td> <td>12 MB</td> </tr> </tbody> </table>					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			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	DDR4-2666	Intel UHD Graphics 630	Core i5-8400	6 / 6	2.8 GHz / 4.0 GHz	9 MB	Core i7-8700	6 / 12	3.2 GHz / 4.6 GHz	12 MB	WLAN (<i>opt</i>) 11ac, M.2 Card, Wi-Fi + Bluetooth combo adapter, 1x1 Bluetooth™ (<i>opt</i>) Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Ethernet Modem One gigabit ethernet port, Realtek RTL8111GN None
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Memory	16GB max, 2400MHz or 2666MHz DDR4, two sockets, dual-channel capable					Security features <ul style="list-style-type: none"> Power-on password Administrator password Hard-disk password Kensington® lock 																																																															
Storage	<i>Some:</i> SATA 6.0Gb/s, 3.5" wide, 7200 rpm <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x4, 32Gb/s <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide <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					Keyboard (<i>opt</i>) <i>Some:</i> Lenovo Calliope Keyboard (USB connector), Fn keys, black or silver <i>Some:</i> Lenovo Wireless Keyboard (2.4GHz), Fn keys, black or silver Mouse (<i>opt</i>) <i>Some:</i> Lenovo Calliope Mouse (USB connector), black or silver <i>Some:</i> Lenovo Wireless Mouse (2.4GHz), black or silver																																																															
Optical (<i>opt</i>) Onboard SATA	DVD±RW, SATA 1.5Gb/s, slim <i>IKL:</i> SATA 6.0Gb/s controller, three SATA 6.0Gb/s connectors <i>ICB:</i> SATA 6.0Gb/s controller, two SATA 6.0Gb/s connectors					Mechanical <ul style="list-style-type: none"> SFF 8.4L (<i>IKL model</i>) or SFF 7.4L (<i>ICB model</i>), <i>chassis:</i> black color; <i>bezel:</i> silver color <i>IKL:</i> dimensions (WxDxH): 3.54" x 11.69" x 13.54"; 90mm x 297mm x 344mm <i>ICB:</i> dimensions (WxDxH): 3.94" x 10.63" x 11.36"; 100mm x 270mm x 288.5mm <i>IKL:</i> net weight: 11.5 lb (5.2 kg); <i>ICB:</i> net weight: 9.64 lb (4.37 kg) Bay 1: 9.0mm, slim optical Bay 2: 3.5", disk (only for <i>IKL model</i>) Bay 3: 3.5" or 2.5", disk Slot 1: half-length, half height, PCIe 3.0x16 Slot 2: half-length, half height, PCIe 3.0x1 M.2 card slots: one for WLAN, one for M.2 SSD / Optane 																																																															
Media reader	<i>Optional</i> 7-in-1 media reader (SD, SDHC, SDXC, MMC, MS, MS-Pro, MMC plus)					Power supply <i>Some:</i> 180 watts, autosensing, 85% PSU, EnergyStar 6.1, universal (100V-240V) <i>Some:</i> 210 watts, autosensing, 85% PSU, EnergyStar 6.1, universal (100V-240V)																																																															
Graphics	<i>Some:</i> Intel HD Graphics 610 / 630 or Intel UHD Graphics 610 / 630 in processor, uses main memory, DirectX® 12; <i>Max resolution:</i> 1920x1080@30Hz (HDMI); 1920x1200@60Hz (VGA) <i>Some:</i> NVIDIA® GeForce® GT 730, 1GB or 2GB GDDR5, DirectX 12, one VGA, one HDMI; <i>Max resolution:</i> 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz <i>Some:</i> NVIDIA GeForce GT 730, 2GB GDDR3, DirectX 12, one VGA, one HDMI; <i>Max resolution:</i> 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz;					Limited warranty 1-year or 2-year, depot repair service / service upgrades available																																																															
Chipset	<i>IKL:</i> Intel B250 chipset <i>ICB:</i> Intel B360 chipset					Preload (<i>opt</i>) Preloaded operating system Windows® 10 Home 64 Preloaded applications (only some listed) <ul style="list-style-type: none"> 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) 																																																															
Front ports	<i>IKL:</i> four USB 3.1 Gen1, 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, optional media reader one headphone / microphone combo jack (3.5mm), one microphone (3.5mm)					Environment <i>IKL:</i> ENERGY STAR® 6.1; ErP Lot 3; GREENGUARD®; RoHS-compliant <i>ICB:</i> ENERGY STAR 7.0; ErP Lot 3; RoHS-compliant																																																															
Rear ports	<i>IKL:</i> two USB 2.0, two USB 3.1 Gen1, ethernet (RJ-45), one VGA, one HDMI, three audio ports <i>ICB:</i> two USB 2.0, two USB 3.1 Gen1, ethernet (RJ-45), one DP, one HDMI, one VGA, one serial port, one audio port																																																																				
IEEE 1394	None																																																																				
Audio support	High Definition (HD) Audio, Realtek® ALC662 (<i>for IKL model</i>) or ALC233 (<i>for ICB model</i>)																																																																				

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