

# ideacentre 510-15IKL Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® Processor, Intel Pentium® Processor or 7th Generation Intel Core™ i3 / i5 / i7 Processors	Chipset	<b>Intel B250 platform</b>																																		
	<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 G3900</td> <td>2 / 2</td> <td>2.8 GHz</td> <td>2 MB</td> <td rowspan="2">DDR4-2133</td> <td>Intel HD Graphics 510</td> </tr> <tr> <td>Celeron G3930</td> <td>2 / 2</td> <td>2.9 GHz</td> <td>2 MB</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="4">DDR4-2400</td> <td rowspan="4">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> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics	Celeron G3900	2 / 2	2.8 GHz	2 MB	DDR4-2133	Intel HD Graphics 510	Celeron G3930	2 / 2	2.9 GHz	2 MB	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	<p>Front ports* one headphone / microphone combo jack (3.5mm), one microphone (3.5mm), optional media reader, four USB 3.1 Gen1</p> <p>Rear ports* power connector, one VGA-out, one HDMI-out, one ethernet (RJ-45), two USB 2.0, two USB 3.1 Gen1</p> <p>Rear audio ports one headphone / microphone combo jack (3.5mm)</p> <p>IEEE 1394 None * Depending on many factors, actual data transfer speed may be lower than theoretical speed</p> <p>Audio support High Definition (HD) Audio, Realtek ALC662 / Dolby Atmos® Audio</p> <p>WLAN (opt) <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</p> <p>Bluetooth™ (opt) Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</p> <p>Ethernet Gigabit ethernet Realtek® RTL8111GN (for IKL) or Intel I219-V (for ICB)</p> <p>Modem None</p> <p>Security chip None</p> <p>Security features Power-on password, administrator password, hard-disk password, Kensington® lock</p> <p>Keyboard (opt) Lenovo Calliope Keyboard (USB connector), black or silver Lenovo Wireless Keyboard (2.4GHz via USB receiver), black or silver</p> <p>Mouse Lenovo Calliope Mouse (USB connector), black or silver Lenovo Wireless Mouse (2.4GHz via USB receiver), black or silver</p> <p>Mechanical</p> <ul style="list-style-type: none"> <li>• Tower (15L), chassis black, bezel silver color, metal case</li> <li>• (WxDxH) with bezel: 5.71" x 11.22" x 14.41"; 145mm x 285.2mm x 366.03mm</li> <li>• Approx 12.8 lb (5.8 kg), weight may vary by configuration</li> <li>• Optional front / rear system fan</li> </ul> <p>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</p> <p>Power supply <i>Some:</i> 180 watts, autosensing, 85% PSU <i>Some:</i> 210 watts, autosensing, 85% PSU</p> <p>Limited warranty <b>1-year or 2-year, depot repair service</b> / service upgrades available</p> <p>Preload <b>Preloaded operating system</b> Windows® 10 Home 64 or Windows 10 Pro 64 <b>Preloaded applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Lenovo® Application Explorer</li> <li>• Lenovo PC Manager</li> <li>• McAfee® LiveSafe™ (30-day trial)</li> <li>• PowerDVD (DVD±RW)</li> <li>• Power2GO (DVD±RW)</li> </ul> <p>Environment ENERGY STAR 6.1; ErP Lot 3; GREENGUARD®; RoHS-compliant</p> <p>Accessories For compatible accessories, please go to <a href="http://smartfind.lenovo.com">http://smartfind.lenovo.com</a></p>
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Memory	16GB max offering, UDIMM, DDR4-2400, 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																																				
Optical (opt) Onboard SATA Media reader	DVD Burner (DVD±RW), slim, 9.0mm high Three onboard SATA 6.0Gb/s connectors Optional 7-in-1 media card reader																																				
Graphics	<i>Some:</i> <b>Intel HD Graphics 510 / 610 / 630</b> in processor, <i>Max resolution:</i> 1920x1080 @30Hz (HDMI); 1920x1200@60Hz (VGA) <i>Some:</i> <b>NVIDIA® GeForce® GT 730, 1GB or 2GB GDDR5</b> , DirectX 12, one VGA, one HDMI; <i>Max resolution:</i> 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz; <i>Some:</i> <b>NVIDIA® GeForce® GT 730, 2GB GDDR3</b> , DirectX 12, one VGA, one HDMI; <i>Max resolution:</i> 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz; <i>Some:</i> <b>NVIDIA GeForce GTX 1050, 2GB GDDR5</b> , DirectX 12, one DVI, one HDMI, one DP; <i>Max resolution:</i> 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz; 2560x1600 (DVI) @60Hz <i>Some:</i> <b>NVIDIA GeForce GTX 1050 Ti, 4GB GDDR5, DirectX 12</b> , one DVI, one HDMI, one DP; <i>Max resolution:</i> 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz; 2560x1600 (DVI) @60Hz <i>Some:</i> <b>AMD Radeon™ RX 460, 4GB GDDR5</b> , DirectX 12, one HDMI, one DP, one DVI; <i>Max resolution:</i> 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz; 2560x1600 (DVI) @60Hz <i>Some:</i> <b>AMD Radeon RX 550, 2GB GDDR5</b> , DirectX 12, one HDMI, one VGA, one DP; <i>Max resolution:</i> 4096x2160 (HDMI)@60Hz; 5120x2880 (DP)@60Hz; 2048x1536 (VGA)@60Hz <i>Some:</i> <b>AMD Radeon RX 560, 4GB GDDR5</b> , DirectX 12, one HDMI, one DVI, one DP; <i>Max resolution:</i> 4096x2160 (HDMI)@60Hz; 5120x2880 (DP)@60Hz; 2560x1600 (DVI) @60Hz <i>Some:</i> <b>AMD Radeon R7 350, 2GB GDDR5</b> , DirectX 11, one VGA, one HDMI; <i>Max resolution:</i> 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz;																																				

Note: The specifications above may not be available in all regions.

Lenovo, September 2019