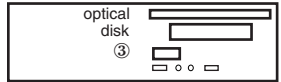


# Lenovo S510 SFF Platform Specifications

Product Specifications Reference (PSREF)

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                         |       |              |                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------|-------|--------------|---------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor          | Intel® Celeron®, Intel Pentium®, or 6th Generation Intel Core™ i3 / i5 / i7 Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                         |       |              |                     | Manageability                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                    | Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cores / Threads | Frequency Base/Max(GHz) | Cache | Memory Types | Integrated Graphics | Security chip                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                    | Celeron G3900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 / 2           | 2.8 G                   | 2 MB  | DDR4-2133    | HD 510              | Security features             | <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> </ul> </li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> </ul>                                                                                                                                                                                              |
|                    | Pentium G4400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 / 2           | 3.3G                    | 3 MB  | DDR4-2133    | HD 510              |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                    | Core i3-6100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2 / 4           | 3.7 G                   | 3 MB  | DDR4-2133    | HD 530              |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                    | Core i3-6320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2 / 4           | 3.9 G                   | 4 MB  | DDR4-2133    | HD 530              |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                    | Core i5-6400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 / 4           | 2.7 G / 3.3 G           | 6 MB  | DDR4-2133    | HD 530              |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                    | Core i5-6500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 / 4           | 3.2 G / 3.6 G           | 6 MB  | DDR4-2133    | HD 530              |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                    | Core i7-6700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 / 8           | 3.4 G / 4.0 G           | 8 MB  | DDR4-2133    | HD 530              |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Memory             | 32GB max, UDIMM, DDR4 2133, two 288-pin DIMM sockets, dual-channel capable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                         |       |              |                     | Keyboard                      | Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Disk               | <i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm<br><i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                         |       |              |                     | Mouse                         | Enhanced Optical USB Mouse, black, Lenovo logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Optical            | <i>Some:</i> Slim DVD-ROM DL SATA 1.5Gb/s Drive, 9.5mm<br><i>Some:</i> Slim Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive, 9.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                         |       |              |                     | Mechanical                    | <ul style="list-style-type: none"> <li>SFF (8L for chassis, 8.5L for chassis and front bezel), black color, metal case</li> <li>11.6" W X 12.6" D X 3.5" H</li> <li>295mm W X 320mm D X 90mm H</li> <li>9.1 lb (4.13 kg) in maximum configuration</li> <li>Bay 1: 9.5mm high, slim optical or opt 2nd SSD</li> <li>Bay 2: 3.5", 1" high, std disk</li> <li>Bay 3: optional card reader</li> <li>Slot 1: Low Profile, PCIe 3.0 x16</li> <li>Slot 2: M.2 slot (for WLAN)</li> </ul>                                                                                                                                                                                                    |
| Onboard SATA       | Three onboard SATA 6.0Gb/s connectors (for HDD/SSD and ODD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                         |       |              |                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Media reader       | Optional 10-in-1 media reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                         |       |              |                     | Floor Stand                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Graphics           | <b>Intel HD Graphics 510/530</b> in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™, supports two independent displays, works along with discrete graphics to support more displays;<br><i>Max resolution:</i> 4096x2304 (DP) @60Hz; 1920x1200 (VGA) @60Hz<br><i>Some:</i> <b>NVIDIA GeForce® GT 720</b> , DirectX 12, 2GB, PCIe 3.0 x8 adapter, one VGA, one HDMI, 25 watts;<br><i>Max resolution:</i> 1920x1080 (HDMI) @60Hz; 2048x1536 (VGA) @85Hz<br><i>Some:</i> <b>NVIDIA GeForce GT 720</b> , DirectX 12, 1GB, PCIe 3.0 x8 adapter, one VGA, one HDMI, 25 watts;<br><i>Max resolution:</i> 1920x1080 (HDMI) @60Hz; 2048x1536 (VGA) @85Hz |                 |                         |       |              |                     | Power supply                  | 180 watts, autosensing, 85% PSU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DP cable           | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                         |       |              |                     | Limited warranty <sup>3</sup> | <i>Some:</i> <b>1-year</b> or <b>3-year, depot service</b><br><i>Some:</i> <b>1-year</b> or <b>3-year, limited onsite service</b><br><i>For Lenovo service upgrade options, please go to S-TC sheet</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Chipset            | <b>Intel H110 Chipset</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                         |       |              |                     | Preload                       | <b>Preloaded operating system</b><br><i>Some:</i> Windows 10 Pro 64-bit<br><i>Some:</i> Windows 10 Home 64-bit<br><i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit<br><b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>Lenovo Rescue System</li> <li>Driver and Application Installation</li> <li>Lenovo Solution Center</li> <li>Lenovo Bluetooth Lock</li> <li>Lenovo SHAREit</li> <li>McAfee® LiveSafe™ (30-day trial)</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Lenovo Companion (Win10 only)</li> <li>Adobe® Reader® (Win7 only)</li> </ul> |
| Front ports        | Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                         |       |              |                     | Environment                   | ENERGY STAR® 6.1 (Need 85% PSU and Windows OS);<br>EPEAT™ Gold rating (only for US, need 85% PSU and Windows OS);<br>ErP Lot 3; GREENGUARD®; RoHS-compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rear ports         | Two USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA, DisplayPort, additional VGA or HDMI on optional graphic card on some models                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                         |       |              |                     | Accessories                   | For compatible accessories, please go to <a href="http://www.lenovoquickpick.com/">http://www.lenovoquickpick.com/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rear audio ports   | Line-in (3.5mm), line-out (3.5mm), microphone (3.5mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                         |       |              |                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| IEEE 1394          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                         |       |              |                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Audio support      | High Definition (HD) Audio, Realtek® ALC662 codec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                         |       |              |                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| WLAN <sup>13</sup> | <i>Some:</i> 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1<br><i>Some:</i> 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                         |       |              |                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Bluetooth™         | <i>Some:</i> Bluetooth 4.0/4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                         |       |              |                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ethernet           | One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                         |       |              |                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Modem              | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                         |       |              |                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

See footnotes for more detailed information

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| Model            | 10KY000Nxx                           |
|------------------|--------------------------------------|
| Product          | Lenovo S510 SFF                      |
| Region           | EAST                                 |
| Machine Type     | 10KY                                 |
| TopSeller        | TopSeller                            |
| Processor        | Core i7-6700 (4C, 3.4 / 4.0GHz, 8MB) |
| Graphics         | Integrated Intel HD Graphics 530     |
| Memory           | 8GBx1                                |
| Storage          | 1TB 7200rpm 3.5"                     |
| Optical          | DVD±RW                               |
| Media Reader     | 10-in-1                              |
| WLAN + Bluetooth | Intel 3165 ac, 1x1 + BT4.0           |
| Keyboard / Mouse | USB (Slim) / USB                     |
| Bundled Monitor  | None                                 |
| Power Supply     | 180W 85%                             |
| ENERGY STAR      | ENERGY STAR 6.1                      |
| Operating System | None                                 |
| Warranty         | 3-year, Depot                        |
| Global           | No                                   |
| Ann Date (mm/yy) | 04/16                                |

