

# Lenovo V520-15IKL Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor						Manageability	None																																																												
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency Base/Max(GHz)</th> <th>Cache</th> <th>Memory Support (Up to)</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron G3930</td> <td>2 / 2</td> <td>2.9G</td> <td>2 MB</td> <td>DDR4-2133</td> <td>HD 610</td> </tr> <tr> <td>Pentium G4400</td> <td>2 / 2</td> <td>3.3G</td> <td>3 MB</td> <td>DDR4-2133</td> <td>HD 510</td> </tr> <tr> <td>Pentium G4560</td> <td>2 / 4</td> <td>3.5G</td> <td>3 MB</td> <td>DDR4-2400</td> <td>HD 610</td> </tr> <tr> <td>Core i3-6100</td> <td>2 / 4</td> <td>3.7G</td> <td>3 MB</td> <td>DDR4-2133</td> <td>HD 530</td> </tr> <tr> <td>Core i5-6400</td> <td>4 / 4</td> <td>2.7G / 3.3G</td> <td>6 MB</td> <td>DDR4-2133</td> <td>HD 530</td> </tr> <tr> <td>Core i3-7100</td> <td>2 / 4</td> <td>3.9G</td> <td>3 MB</td> <td>DDR4-2400</td> <td>HD 630</td> </tr> <tr> <td>Core i5-7400</td> <td>4 / 4</td> <td>3.0G / 3.5G</td> <td>6 MB</td> <td>DDR4-2400</td> <td>HD 630</td> </tr> <tr> <td>Core i5-7500</td> <td>4 / 4</td> <td>3.4G / 3.8G</td> <td>6 MB</td> <td>DDR4-2400</td> <td>HD 630</td> </tr> <tr> <td>Core i7-7700</td> <td>4 / 8</td> <td>3.6G / 4.2G</td> <td>8 MB</td> <td>DDR4-2400</td> <td>HD 630</td> </tr> </tbody> </table>						Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics	Celeron G3930	2 / 2	2.9G	2 MB	DDR4-2133	HD 610	Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510	Pentium G4560	2 / 4	3.5G	3 MB	DDR4-2400	HD 610	Core i3-6100	2 / 4	3.7G	3 MB	DDR4-2133	HD 530	Core i5-6400	4 / 4	2.7G / 3.3G	6 MB	DDR4-2133	HD 530	Core i3-7100	2 / 4	3.9G	3 MB	DDR4-2400	HD 630	Core i5-7400	4 / 4	3.0G / 3.5G	6 MB	DDR4-2400	HD 630	Core i5-7500	4 / 4	3.4G / 3.8G	6 MB	DDR4-2400	HD 630	Core i7-7700	4 / 8	3.6G / 4.2G	8 MB	DDR4-2400	HD 630	Security chip	Firmware TPM 2.0 (fTPM)
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	Celeron G3930	2 / 2	2.9G	2 MB	DDR4-2133	HD 610																																																														
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						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>																																																													
						Keyboard Mouse	<i>Some:</i> Lenovo Calliope Keyboard (USB connector), black <i>Some:</i> Lenovo Calliope Mouse (USB connector), black																																																													
						Mechanical	<ul style="list-style-type: none"> <li>Tower (15L), black color, metal case</li> <li>5.7" W X 11.5" D X 14.4" H</li> <li>145mm W X 293.2mm D X 366mm H</li> <li>Approx. 12.5 lb (5.65 kg), weight may vary by configuration</li> <li>Bay 1: Slim external ODD bay</li> <li>Bay 2: 3.5", 1" high, internal, HDD/SSD (optional bay, bay comes with disk)</li> <li>Bay 3: 2.5", internal, HDD/SSD (optional bay, bay comes with disk)</li> <li>Slot 1: half-length, full-height, PCIe 3.0 x16</li> <li>Slot 2: half-length, full-height, PCIe 3.0 x1</li> <li>Slot 3: no slot, only bracket for optional parallel port extension*</li> <li>M.2 card slots: Two M.2 (one for WLAN, one for SSD/Optane)</li> </ul>																																																													
Memory	32GB max, UDIMM, DDR4-2400*, two 288-pin DIMM sockets, non-ECC, dual-channel capable * System automatically clocks down for the processors with lower memory controller						Power supply	180 watts, autosensing, 85% PSU																																																												
Storage	<i>Some:</i> Hard Drive / SATA 6.0Gb/s, 3.5", 5400 rpm or 7200 rpm <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" <i>Some:</i> M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s <i>Some:</i> Intel Optane™ Memory (models with 7th gen Core processor), M.2 <i>Some:</i> DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm) <i>Some:</i> DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm) Three onboard SATA 6.0Gb/s connectors (for HDD/SSD and ODD) Optional 7-in-1 media reader						Limited warranty <sup>3</sup>	<i>Some:</i> <b>1-year</b> or <b>3-year, depot service</b> / service upgrades available <i>Some:</i> <b>1-year</b> or <b>3-year, limited onsite service</b> / service upgrades available																																																												
Optical							Preload	<b>Preloaded operating system</b> <i>Some:</i> Windows 10 Pro 64-bit <i>Some:</i> Windows 10 Home 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor) <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Lenovo User Guide</li> <li>Only for Window 10</li> <li>Lenovo Companion</li> <li>Lenovo ID</li> <li>Only for Window 7</li> <li>Lenovo Solution Center</li> <li>McAfee® LiveSafe™ (30-day trial)</li> <li>Adobe® Reader®</li> </ul>																																																												
Onboard SATA Media reader	Three onboard SATA 6.0Gb/s connectors (for HDD/SSD and ODD) Optional 7-in-1 media reader						Environment	ENERGY STAR® 6.1; EPEAT™ Gold rating (North America); ErP Lot 3; GREENGUARD®; RoHS-compliant																																																												
Graphics	<b>Intel HD Graphics 510/530/610/630</b> in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™, one HDMI, supports three independent displays, works along with discrete graphics to support more displays; <i>Max resolution:</i> 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1080 (VGA)@60Hz <i>Some:</i> <b>NVIDIA GeForce® GT 730</b> , DirectX 12, <b>1GB</b> , PCIe 2.0 x8 adapter, one VGA, one HDMI, 35 watts; <i>Max resolution:</i> 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz <i>Some:</i> <b>NVIDIA GeForce GT 730</b> , DirectX 12, <b>2GB</b> , PCIe 2.0 x8 adapter, two DisplayPort, 35 watts; <i>Max resolution:</i> 3840x2160 (DisplayPort)@60Hz						Accessories	For compatible accessories, please go to <a href="http://www.lenovoquickpick.com/">http://www.lenovoquickpick.com/</a>																																																												
Monitor Cable	None																																																																			
Chipset	<b>Intel B250 Chipset</b>																																																																			
Front ports*	Four USB 3.1 Gen1, microphone (3.5mm), headphone (3.5mm)																																																																			
Rear ports*	Two USB 3.1 Gen1, two USB 2.0, one serial (9-pin), optional parallel (25-pin), one ethernet (RJ-45), one VGA, one DisplayPort, one HDMI, additional VGA, DisplayPort, or HDMI on optional graphic card on some models																																																																			
Rear audio ports*	Line-in (3.5mm), line-out (3.5mm), microphone (3.5mm) * Depending on many factors, actual data transfer speed may be lower than theoretical speed																																																																			
Audio support	High Definition (HD) Audio, Realtek® ALC662, optional internal speaker (1.5 watt)																																																																			
WLAN <sup>13</sup>	<i>Some:</i> 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1 <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 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																																																			
Ethernet	One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®																																																																			
Modem	None																																																																			