Lenovo V520-15IKL Tower Platform Specifications

Pricessor Threads Base/Max(GHz) Cane (Up to)* Graphics Celeron G3393 2 / 2 / 9 2 / 9 MB DDR4-2133 H0 510 Pentium G4400 2 / 2 3.3 G 3 MB DDR4-2133 H0 510 Pentium G4560 2 / 4 3.5 G 3 MB DDR4-200 H0 510 Security felt (in real for optional)** Security felt (in real for optional	Processor	Intel® Celeron®, Intel®	el Pentiur	m®, or 6/7th Gene	eration Ir	ntel Core™ i3 / i5 /	i7 Processor	Manageability	None		
Celeron G3930 2 / 2 2 9.G 2 MB DDR4-2133 HD 510 Pentium G450 2 / 4 3.36 3 MB DDR4-2130 HD 510 Pentium G4560 2 / 4 3.5G 3 MB DDR4-2133 HD 530 Core is-6400 4 / 4 2.7G is 3.3G 3 MB DDR4-2133 HD 530 Core is-6400 4 / 4 2.7G is 3.3G 3 MB DDR4-2133 HD 530 Core is-6400 4 / 4 2.7G is 3.3G 3 MB DDR4-2133 HD 530 Core is-6700 4 / 4 3.3G 3 MB DDR4-2133 HD 530 Core is-7700 2 / 4 3.3G 3 MB DDR4-2133 HD 530 Core is-7700 4 / 4 3.4G / 3.3G 6 MB DDR4-2300 HD 530 Core is-7700 4 / 4 3.4G / 3.3G 6 MB DDR4-2400 HD 530 Core is-7700 4 / 4 3.4G / 3.3G 6 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 Core is-7700 4 / 8 3.6G / 4.2G 8 MB DDR4-2400 HD 530 4 MB		Processor Cores / Frequency Cooks Memory Support Integrated							chip Firmware TPM 2.0 (fTPM)	Administrator password	
Pentilum G4560 27.4 3.5G 3.MB DDR4-2403 HD 610	ļ	Celeron G3930		, ,	2 MB	\	•	occurry leatures	entire system to fixed object: • Hard disk password		
Pentlum G4560		Pentium G4400	2/2	3.3G	3 MB	DDR4-2133	HD 510			Boot sequence controlBoot without keyboard and mouse	
Power-on password Pow	ı	Pentium G4560	2/4	3.5G	3 MB	DDR4-2400	HD 610			USB port disablement	
Core i 3-740 2 / 4 3.9G 3.9G 3.9B DPR4-2400 HD 630	l				_				·	·	
Core i5-7500	l	Core i3-7100 2 / 4 3.9G 3 MB DDR4-2400 HD 630							Some: Lenovo Calliope Keyboard (USB connector), black		
Core i5-7500 4 / 4 3.4G / 3.8G 6 MB DDR4-2400 HD 630	l										
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 Storage Some: Hard Drive / SATA 6.0Gb/s, 3.5*, 5400 pm or 7200 p	l							Mechanical	Tower (15L), black color, metal case Tower (15L), black color, metal case		
Approx. 12.5 lb (5.65 kg), weight may vary by configuration	l										
dual-channel capable * System automatically clocks down for the processors with lower memory controller Storage Some: Hard Drive / SATA 6.0Gb/s, 3.5*, 5400 rpm or 7200 rpm Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5*, 5400 rpm or 7200 rpm Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5*, 5400 rpm or 7200 rpm Some: Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: M. 2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: Intel Optane** Memory (models with 7th gen Core processor), M.2 Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm) Cnboard SATA Onboard SATA Media reader Graphics Intel PG Graphics Optional Day, ASTA 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 Graphics Optional Day, ASTA 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 Graphics Intel HD Graphics 510/530/610630 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; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; works along with discrete graphics to support more displays; Max resolution: 3840x2160 (HDMI)@30Hz; 2048x153				<u>'</u>		·		-	• Approx. 12.5 lb (5.65 kg), weight may va	ary by configuration	
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5 Gb/s prive (SSD) / SATA 6.0Gb/s, 2.5 Gb/s Some: M.2 Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5 Gb/s Some: M.2 Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5 Gb/s Some: DVD-HOM SATA 1.5Gb/s Drive, slim (9.0mm) Onboard SATA Optical Some: DVD-HOM SATA 1.5Gb/s Drive, slim (9.0mm) Three onboard SATA Optical Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm) Three onboard SATA 6.0Gb/s connectors (for HDD/SSD and ODD) Optical Trin-1 media reader Optional 7-in-1 media reader Optical Power supply Some: 1-year or 3-year, depot service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, depot service / service upgrades ava some: 1-year or 3-year, depot service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, depot service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades ava some: 1-year or 3-year, limited onsite service / service upgrades onsite / some: Vindows 10 Home 64-bit Some: Windows 10 Home 64-bit Some: Windows 10 Home 64-bit Some: Windows 10 Home 64-bit So		dual-channel capal	ble						Baý 2: 3.5", 1" high, internal, HDD/SSD (optional bay, bay comes with disk) Bay 3: 2.5", internal, HDD/SSD (optional bay, bay comes with disk)		
Optical Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm) Some: DVB Burner (DVD+RW), SATA 1.5Gb/s Drive, slim (9.0mm) Three onboard SATA Media reader Optional 7-in-1 media reader Graphics Intel HD Graphics 510/530/610/630 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; Wax resolution: 4096x230.4 (DP) @ 60Hz; 4096x2160 (HDMI) @ 24Hz; Some: NVIDIA Geforce* GT 730, DirectX 12, 1GB, PCle 2.0 x8 adapter, one VGA, one HDMI, 35 watts; Max resolution: 3840x2160 (HDMI) @ 30Hz; 2048x1536 (VGA) @ 75Hz Some: NVIDIA Geforce* GT 730, DirectX 12, 2GB, PCle 2.0 x8 adapter, one VGA, one HDMI, 35 watts; Max resolution: 3840x2160 (DisplayPort) @ 60Hz None Chipset Intel B250 Chipset Front ports* Four USB 3.1 Gen1, microphone (3.5mm), headphone (3.5mm) one eithernet (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), incrophone (3.5mm	· ·	Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2 Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm) Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm) Three onboard SATA 6.0Gb/s connectors (for HDD/SSD and ODD)							Slot 2: half-length, full-height, PCle 3.0 x1 Slot 3: no slot, only bracket for optional parallel port extension*		
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm) Media reader Optional 7-in-1 media reader Graphics Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPortW, one HDMI, supports three independent displays, works along with discrete graphics to support more displays; Max resolution: 3840x2160 (DP) @60Hz 4.996x2160 (HDMI) @24Hz; Some: NVIDIA Geforce® GT 730, DirectX 12, 1GB, PCle 2.0 x8 adapter, one VGA, one DHMI, 35 watts; Max resolution: 3840x2160 (HDMI) @30Hz; 2048x1536 (VGA) @75Hz 5ome: NVIDIA Geforce T7 30, DirectX 12, 2GB, PCle 2.0 x8 adapter, two DisplayPort, 35 watts: Max resolution: 3840x2160 (DisplayPort) @60Hz None Chipset Intel B250 Chipset Front ports* Four 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) ine-out (3.5mm), microphone (3.5mm) inerophone (3.5mm) iner	Optical							Power supply	180 watts, autosensing, 85% PSU		
Optional 7-in-1 media reader Graphics Intel HD Graphics 510/530/610/630 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; Max resolution: 4096x2304 (IDP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1080 (VGA)@60Hz Some: NVIDIA Geforce® GT 730, DirectX 12, 1GB, PCle 2.0 x8 adapter, one VGA, one HDMI, 35 watts; Max resolution: 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz Some: NVIDIA Geforce GT 730, DirectX 12, 2GB, PCle 2.0 x8 adapter, wo DisplayPort, 35 watts; Max resolution: 3840x2160 (DisplayPort)@60Hz None Chipset Intel B250 Chipset Four USB 3.1 Gen1, microphone (3.5mm), headphone (3.5mm) Two USB 3.1 Gen1, inwo 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), repending on many factors, actual data transfer speed may be lower than theoretical speed Audio support Migh Definition (HD) Audio, Realtek® ALC662, optional internal speaker (1.5 watt) WLAN¹³ Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band),	Inhoord CATA							,	Some: 1-year or 3-year, depot service / service upgrades available		
one VGA, one DisplayPort™, one HDMI, supports three independent displays, works along with discrete graphics to support more displays; Max resolution: 4096x2304 (DP)@60Hz; 4996x2160 (HDMI)@24Hz; 1920x1080 (VGA)@60Hz 1920x1080 (VGA)@75Hz Some: NVIDIA Geforce GT 730, DirectX 12, 1GB, PCle 2.0 x8 adapter, one VGA, one DisplayPort, 35 watts; Max resolution: 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz 100x1080 (V								Some: 1-year or 3-year, limited onsite service / service upgrades available			
Monitor Cable None Chipset Intel B250 Chipset Front ports* Rear ports* Four USB 3.1 Gen1, microphone (3.5mm), headphone (3.5mm) 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) WLAN¹³ Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), ■ Lenovo ID - Only for Window 7 ■ Lenovo Solution Center ■ McAfee® LiveSafe™ (30-day trial) ■ Adobe® Reader® Environment ENERGY STAR® 6.1; EPEAT™ Gold rating (North America); ErP GREENGUARD®; RoHS-compliant For compatible accessories, please go to http://www.lenovoqui	•	one VGA, one DisplayPort™, one HDMI, supports three independent displays, works along with discrete graphics to support more displays; Max resolution: 4096x2304 (DP)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1080 (VGA)@60Hz Some: NVIDIA Geforce® GT 730, DirectX 12, 1GB, PCIe 2.0 x8 adapter, one VGA, one HDMI, 35 watts; Max resolution: 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz Some: NVIDIA Geforce GT 730, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;						relocad	Some: Windows 10 Pro 64-bit Some: Windows 10 Home 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor) Preloaded applications (only some listed) Microsoft Office preloaded; purchase a product key to activate Lenovo User Guide Only for Window 10 Lenovo Companion		
Front ports* Rear ports* Rear audio ports* Line-in (3.5mm), line-out (3.5mm), high positional 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) WLAN¹³ Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band),	Nonitor Cable			ME 100 (Biopiay)	011,000						
Front ports * Rear ports * Two USB 3.1 Gen1, microphone (3.5mm), headphone (3.5mm) 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) WLAN¹³ Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band),	hipset	Intel B250 Chipse	t					1			
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) WLAN¹³ Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band),	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							 McAfee® LiveSafe™ (30-day trial) Adobe® Reader® 		
Audio support High Definition (HD) Audio, Realtek® ALC662, optional internal speaker (1.5 watt) WLAN¹³ Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band),								Environment	ENERGY STAR® 6.1; EPEAT™ Gold ratin GREENGUARD®; RoHS-compliant	g (North America); ErP Lot 3;	
WLAN ¹³ Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band),	* Depending on many factors, actual data transfer speed may be lower than theoretical speed						Accessories	For compatible accessories, please go to	http://www.lenovoquickpick.com/		
	udio support	High Definition (HD) Audio, Realtek® ALC662, optional internal speaker (1.5 watt)						1			
vvi-ri + Diueiootii 4.1 comino adapter, 1X1	VLAN ¹³	Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1 Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165,									
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 Bluetooth™ Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter Che gigabit ethernet port, Realtek RTL8111GN, Wake on LAN® Modem None	Bluetooth™ Ethernet	Wi-Fi + Blu Some: Bluetooth 4 One gigabit ethern	etooth 4. 1.1 wirele	0 combo adapter	r, 1x1 Wi-Fi + E	Bluetooth combo a	adapter			Lenov	