# Lenovo V520 Tower 10NK002M++

**Region**
EMEA

**Machine Type**
10NK

**TopSeller**
TopSeller

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

**Graphics**
Integrated Intel HD Graphics 630

**Memory**
8GBx1

**Storage**
256GB SSD M.2 PCIe NVMe

**Optical**
DVD±RW

**Media Reader**
7-in-1

**WLAN + Bluetooth**
None

**Optional Rear Ports**
None

**Speaker**
None

**Keyboard / Mouse**
USB / USB

**Bundled Monitor**
None

**Power Supply**
180W 85%

**ENERGY STAR**
ENERGY STAR 6.1

**Operating System**
Windows 10 Pro 64

**Warranty**
1-year, Onsite

**Global**
No

**End of Support**
Aug 1, 2023

**Ann Date (mm/yy)**
03/17

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

**www.lenovo.com**

This publication was developed for products and services offered in the United States and E.M.E.A countries. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area. Lenovo reserves the right to change specifcations or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication “as is” without warranty of any kind, either express or implied, including the implied warranties of merchantability or ftness for a particular purpose.

**http://psref.lenovo.com**
Visit psref website for the latest version of Product Specifcations Reference.

© Lenovo, 2018. All rights reserved.



# 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

| 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 |

**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 rpm or 7200 rpm
*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 Ready (models with 7th gen Core processor), M.2

**Optical**

*Some:* DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
*Some:* DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

**Onboard SATA**

Three onboard SATA 6.0Gb/s connectors (for HDD/SSD and ODD)

**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;
*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;
*Max resolution:* 3840x2160 (DisplayPort)@60Hz

**Monitor Cable**

None

**Chipset**

**Intel B250 Chipset**

**Front ports**

Four USB 3.0, microphone (3.5mm), headphone (3.5mm)

**Rear ports**

Two USB 3.0, 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)

**Audio support**

High Definition (HD) Audio, Realtek® ALC662, optional internal speaker (1.5 watt )

**WLAN**[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, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1

**Bluetooth™**

*Some:* Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**Ethernet**

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

**Modem**

None

**Manageability**

None

**Security chip**

Firmware TPM 2.0 (fTPM)

**Security features**

- One lock to secure both cover and entire system to fixed object:
  - -Padlock loop (in rear for opt padlock)
  - -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

**Keyboard**

*Some:* Lenovo Calliope Keyboard (USB connector), black

**Mouse**

*Some:* Lenovo Calliope Mouse (USB connector), black

**Mechanical**

- Tower (15L), black color, metal case
- 5.7" W X 11.5" D X 14.4" H
- 145mm W X 293.2mm D X 366mm H
- Approx. 12.5 lb (5.65 kg), weight may vary by configuration

Bay 1: Slim external ODD bay
Bay 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)
Slot 1: half-length, full-height, PCIe 3.0 x16
Slot 2: half-length, full-height, PCIe 3.0 x1
Slot 3: no slot, only bracket for optional parallel port extension*
M.2 card slots: Two M.2 (one for WLAN, one for SSD/Optane)

**Power supply**

180 watts, autosensing, 85% PSU

**Limited warranty**[3]

*Some:* **1-year** or **3-year**, **depot service** / service upgrades available
*Some:* **1-year** or **3-year**, **limited onsite service** / service upgrades available

**Preload**

**Preloaded operating system**
*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
- 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 Lot 3; GREENGUARD®; RoHS-compliant

**Accessories**

For compatible accessories, please go to **http://www.lenovoquickpick.com/**

# Lenovo V520 Tower












