Lenovo

Lenovo IdeaCentre 520 Intel® Core™ i7 i7-7700T 60.5 cm (23.8") 1920 x 1080 pixels Touchscreen All-in-One PC 8 GB DDR4-SDRAM 1 TB HDD Windows 10 Home Wi-Fi 5 (802.11ac) Silver

Brand : Lenovo   **Product family:** IdeaCentre   **Product code:** F0D10006US

Product name : 520

Intel Core i7-7700T Processor (8M Cache, up to 3.80 GHz), 8GB RAM, 1000GB HDD, 23.8" FHD MT, Windows 10 Home 64
Lenovo IdeaCentre 520. Product type: All-in-One PC. Display diagonal: 60.5 cm (23.8"), HD type: Full HD, Display resolution: 1920 x 1080 pixels, Touchscreen. Processor family: Intel® Core™ i7, Processor frequency: 2.9 GHz. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1 TB, Storage media: HDD. Built-in camera. Optical drive type: DVD±RW. Operating system installed: Windows 10 Home. Product colour: Silver

Display

Display diagonal *	60.5 cm (23.8")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✓
HD type *	Full HD
LED backlight	✓
Touch technology	Multi-touch
Native aspect ratio	16:9
Display brightness	250 cd/m²
Screen shape	Flat

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	7th gen Intel® Core™ i7
Processor model *	i7-7700T
Processor cores	4
Processor threads	8
Processor boost frequency	3.8 GHz
Processor frequency *	2.9 GHz
Processor cache	8 MB
Processor cache type	Smart Cache
System bus rate	8 GT/s
Thermal Design Power (TDP)	35 W
Configurable TDP-down frequency	1.9 GHz
Configurable TDP-down	25 W
PCI Express slots version	3.0
Processor socket	LGA 1151 (Socket H4)
Processor lithography	14 nm
Processor operating modes	64-bit
Stepping	B0
Bus type	DMI3
Processor codename	Kaby Lake
Processor series	Intel Core i7-7700 Desktop series
Maximum number of PCI Express lanes	16
PCI Express configurations	1x16, 1x8+2x4, 2x8
Processor code	SR339
Tjunction	80 °C

Network

Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN *	✓
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth *	✓
Bluetooth version	4.0

Ports & interfaces

Ethernet LAN (RJ-45) ports	1
USB 2.0 ports quantity *	3
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Headphone outputs	1
Microphone in	✓
Combo headphone/mic port	✓

Design

Product colour *	Silver

Performance

Product type *	All-in-One PC
Motherboard chipset	Intel® B250
Placement supported	Vertical

Software

Operating system architecture	64-bit
Operating system installed *	Windows 10 Home

Processor special features

Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✓
Enhanced Intel SpeedStep Technology	✓
Intel® Quick Sync Video Technology	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel Clear Video Technology	✓
Intel® InTru™ 3D Technology	✓

Processor

Maximum internal memory supported by processor	64 GB
Conflict-Free processor	✓
Memory types supported by processor	DDR3L-SDRAM, DDR4-SDRAM
Memory clock speeds supported by processor	1333,1600,2133,2400 MHz
Memory channels supported by processor	Dual
ECC supported by processor	✗
Memory voltage supported by processor	1.35 V

Memory

Internal memory *	8 GB
Internal memory type	DDR4-SDRAM
Maximum internal memory *	12 GB
Memory slots	2
Memory slots type	SO-DIMM
Memory form factor	DIMM/SO-DIMM

Storage

Total storage capacity *	1 TB
Storage media *	HDD
Number of storage drives installed	1
Number of HDDs installed	1
HDD capacity	1 TB
HDD speed	7200 RPM
HDD interface	SATA III
Optical drive type *	DVD±RW
Card reader integrated	✓
Compatible memory cards	SD, SDHC, SDXC

Graphics

On-board graphics card *	✓
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 630
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Maximum on-board graphics card memory	64 GB
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	5912

Audio

Built-in speaker(s) *	✓
Number of speakers	2
RMS rated power	6 W
Built-in microphone	✓

Camera

Built-in camera *	✓

Network

Wi-Fi *	✓

Processor special features

Intel® AES New Instructions (Intel® AES-NI)	✓
Intel Trusted Execution Technology	✓
Intel Enhanced Halt State	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel® Secure Key	✓
Intel TSX-NI	✓
Intel Stable Image Platform Program (SIPP)	✓
Intel® OS Guard	✓
Intel Software Guard Extensions (Intel SGX)	✓
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Intel 64	✓
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Processor package size	37.5 x 37.5 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Scalability	1S
CPU configuration (max)	1
Embedded options available	✓
Thermal solution specification	PCG 2015A
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel Identity Protection Technology version	1.00
Intel Stable Image Platform Program (SIPP) version	1.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✓
Intel TSX-NI version	1.00
Processor ARK ID	97122
Intel® Optane™ Memory Ready	✓

Power

AC adapter frequency	50/60 Hz
AC adapter input voltage	100 - 240 V

Weight & dimensions

Width (with stand)	541.2 mm
Depth (with stand)	57.3 mm
Height (with stand)	416.4 mm
Weight (with stand)	6.17 kg

Sustainability

Sustainability certificates	RoHS, ENERGY STAR

Packaging content

Mouse included	✓
Keyboard included	✓
Quick start guide	✓
Manual	✓

Other features

Detachable display	✗