



## Lenovo IdeaPad 520S Intel® Core™ i5 i5-7200U 35.6 cm (14") Full HD 8 GB DDR4-SDRAM 256 GB SSD Windows 10 Home

Brand: Lenovo

Series: IdeaPad

Model: 80X20064MZ

SKU: 520S

Lenovo IdeaPad 520S. Processor: Intel® Core™ i5, Model: i5-7200U, Frequency: 2.5 GHz. Display: 35.6 cm (14"), HD Type: Full HD, Resolution: 1920 x 1080 pixels. Memory: 8 GB, Type: DDR4-SDRAM. Storage: 256 GB, Type: SSD. Graphics: Intel® HD Graphics 620. Operating System: Windows 10 Home. Weight: 1.2 kg



Design		Performance	
Product type *	Laptop	Motherboard chipset	Intel SoC
Product colour *	Grey	Keyboard	
Form factor *	Clamshell	Pointing device	Touchpad
Display		Numeric keypad *	✗
Display diagonal *	35.6 cm (14")	Windows keys	✓
Display resolution *	1920 x 1080 pixels	Software	
Touchscreen *	✗	Operating system architecture	64-bit
HD type	Full HD	Operating system installed *	Windows 10 Home
Panel type	IPS	Processor special features	
LED backlight	✓	Intel® Wireless Display (Intel® WiDi)	✓
Native aspect ratio	16:9	Intel® My WiFi Technology (Intel® MWT)	✓
Display surface	Matt	Intel® Smart Response Technology	✓
Screen shape	Flat	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Core™ i5	Intel® Small Business Advantage (Intel® SBA)	✓
Processor generation	7th gen Intel® Core™ i5	Enhanced Intel SpeedStep Technology	✓
Processor model *	i5-7200U	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cores	2	Intel Clear Video Technology	✓
Processor threads	4	Intel® InTru™ 3D Technology	✓
Processor boost frequency	3.1 GHz	Intel® Insider™	✓
Processor frequency *	2.5 GHz	Intel® Quick Sync Video Technology	✓
System bus rate	4 GT/s	Intel Flex Memory Access	✓
Processor cache	3 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	Smart Cache		
Processor socket	BGA 1356		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor codename	Kaby Lake		
Bus type	OPI		
Stepping	H0		
Thermal Design Power (TDP)	15 W		

Processor		Processor special features	
Configurable TDP-up frequency	2.7 GHz	Intel Trusted Execution Technology	✗
Configurable TDP-up	25 W	Intel Enhanced Halt State	✓
Configurable TDP-down	7.5 W	Intel VT-x with Extended Page Tables (EPT)	✓
Configurable TDP-down frequency	0.8 GHz	Intel® Secure Key	✓
Tjunction	100 °C	Intel TSX-NI	✗
Maximum number of PCI Express lanes	12	Intel Stable Image Platform Program (SIPP)	✗
PCI Express slots version	3.0	Intel® OS Guard	✓
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1	Intel Software Guard Extensions (Intel SGX)	✓
ECC supported by processor	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory		Intel 64	✓
Internal memory *	8 GB	Execute Disable Bit	✓
Internal memory type	DDR4-SDRAM	Idle States	✓
Memory clock speed	2133 MHz	Thermal Monitoring Technologies	✓
Memory form factor	SO-DIMM	Processor package size	42 x 24 mm
Memory layout (slots x size)	1 x 8 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Memory slots	1x SO-DIMM	Processor code	SR2ZU
Storage		CPU configuration (max)	1
Total storage capacity *	256 GB	Embedded options available	✗
Storage media *	SSD	Graphics & IMC lithography	14 nm
Number of SSDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD capacity	256 GB	Intel Identity Protection Technology version	1.00
SSD interface	SATA III	Intel Smart Response Technology version	1.00
Optical drive type *	✗	Intel Stable Image Platform Program (SIPP) version	0.00
Card reader integrated	✓	Intel Secure Key Technology version	1.00
Compatible memory cards	SD, SDHC, SDXC	Intel TSX-NI version	0.00
Graphics		Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Processor ARK ID	95443
On-board graphics card model *	Intel® HD Graphics 620	Conflict-Free processor	✓
On-board graphics card base frequency	300 MHz	Battery	
On-board graphics card dynamic frequency (max)	1000 MHz	Battery technology	Lithium Polymer (LiPo)
Maximum on-board graphics card memory	32 GB	Power	
On-board graphics card DirectX version	12.0	AC adapter power	45 W
On-board graphics card OpenGL version	4.4	AC adapter frequency	50 - 60 Hz
On-board graphics card ID	0x5916	AC adapter input voltage	100 - 240 V
Audio		DC-in jack	✓
Audio system	Dolby Audio	Security	
Number of built-in speakers	2	Cable lock slot type	Kensington
Speakers manufacturer	Harman Kardon	Password protection	✓
Speaker power	2 W	Certificates	
Built-in microphone	✓	Compliance certificates	RoHS
Camera		Sustainability	
Front camera	✓	Sustainability certificates	ENERGY STAR
Network		Weight & dimensions	
Wi-Fi	✓	Width	327.4 mm
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Depth	236.5 mm
Ethernet LAN	✗	Height	19.3 mm
Bluetooth	✓	Weight *	1.7 kg
Bluetooth version	4.1		
Ports & interfaces			
USB 2.0 ports quantity *	1		

Ports & interfaces		Packaging content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Manual	✓
HDMI ports quantity *	1	Quick start guide	✓
DVI port	✗	Power cord included	✓
Microphone in	✗	Other features	
Combo headphone/mic port	✓	LightScribe	✗
USB Sleep-and-Charge	✓		
USB Sleep-and-Charge ports	1		



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