



Lenovo IdeaPad 520 (15") Intel® Core™ i5 i5-8250U Laptop 39.6 cm (15.6") Full HD 8 GB DDR4-SDRAM 1 TB HDD NVIDIA® GeForce® MX150 FreeDOS Bronze

Brand : Lenovo **Product family:** IdeaPad **Product code:** 81BF005JRK

Product name : ideapad 520 (15")

Intel Core i5-8250U (1.6GHz, Cache 6MB, 4 Cores), 15.6" Full HD (1920 x 1080), 8GB RAM, 1000GB SATA III HDD 5400, Intel UHD Graphics 620 + NVIDIA GeForce MX150, Gigabit LAN, WLAN 802.11ac, Bluetooth 4.1, FreeDOS

Lenovo IdeaPad 520 (15"). Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-8250U, Processor frequency: 1.6 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1 TB, Storage media: HDD. On-board graphics card model: Intel® UHD Graphics 620. Operating system installed: FreeDOS. Product color: Bronze

Design		Ports & interfaces	
Product type *	Laptop	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Product color *	Bronze	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Form factor *	Clamshell	Ethernet LAN (RJ-45) ports	1
Housing material	Metal	HDMI ports quantity *	1
Display		Headphone outputs	1
Display diagonal *	39.6 cm (15.6")	Microphone in	✗
Display resolution *	1920 x 1080 pixels	Combo headphone/mic port	✓
Touchscreen *	✗	Performance	
HD type	Full HD	Motherboard chipset	Intel SoC
Panel type	IPS	Keyboard	
LED backlight	✓	Numeric keypad *	✓
Native aspect ratio	16:9	Windows keys	✓
Display brightness	250 cd/m²	Software	
Dual-screen	✗	Operating system installed *	FreeDOS
Processor		Processor special features	
Processor manufacturer *	Intel	Intel® My WiFi Technology (Intel® MWT)	✓
Processor family *	Intel® Core™ i5	Intel® Smart Response Technology	✓
Processor generation	8th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i5-8250U	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores	4	Intel® Turbo Boost Technology	2.0
Processor threads	8	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	3.4 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor frequency *	1.6 GHz	Intel Clear Video Technology	✓
System bus rate	4 GT/s	Intel® InTru™ 3D Technology	✓
Processor cache	6 MB	Intel® Quick Sync Video Technology	✓
Processor cache type	Smart Cache	Intel Flex Memory Access	✓
Processor socket	BGA 1356	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography	14 nm	Intel Trusted Execution Technology	✗
Processor operating modes	64-bit	Intel Enhanced Halt State	✓
Processor codename	Kaby Lake R		
Bus type	OPI		
Stepping	Y0		
Thermal Design Power (TDP)	15 W		
Configurable TDP-up frequency	1.8 GHz		
Configurable TDP-up	25 W		
Configurable TDP-down	10 W		
Configurable TDP-down frequency	0.8 GHz		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	12	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express slots version	3.0	Intel® Secure Key	✓
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1	Intel TSX-NI	✗
ECC supported by processor	✗	Intel Stable Image Platform Program (SIPP)	✗
Memory		Intel® OS Guard	✓
Internal memory *	8 GB	Intel Software Guard Extensions (Intel SGX)	✓
Internal memory type	DDR4-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory form factor	On-board + SO-DIMM	Intel 64	✓
Memory slots	1x SO-DIMM	Execute Disable Bit	✓
Maximum internal memory *	16 GB	Idle States	✓
Storage		Thermal Monitoring Technologies	✓
Total storage capacity *	1 TB	Processor package size	42 x 24 mm
Storage media *	HDD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Number of HDDs installed	1	Processor code	SR3LA
HDD capacity	1 TB	CPU configuration (max)	1
HDD interface	SATA III	Embedded options available	✗
HDD speed	5400 RPM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Optical drive type *	✗	Intel Identity Protection Technology version	1.00
Card reader integrated	✓	Intel Smart Response Technology version	1.00
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Stable Image Platform Program (SIPP) version	0.00
Graphics		Intel Secure Key Technology version	1.00
Discrete graphics card model *	NVIDIA® GeForce® MX150	Intel TSX-NI version	0.00
Discrete graphics card memory	2 GB	Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Processor ARK ID	124967
Discrete graphics card *	✓	Conflict-Free processor	✓
On-board graphics card model *	Intel® UHD Graphics 620	Battery	
On-board graphics card base frequency	300 MHz	Number of battery cells	2
On-board graphics card dynamic frequency (max)	1100 MHz	Power	
Maximum on-board graphics card memory	32 GB	AC adapter frequency	50 - 60 Hz
On-board graphics card DirectX version	12.0	AC adapter input voltage	100 - 240 V
On-board graphics card OpenGL version	4.4	Security	
On-board graphics card ID	0x5917	Password protection	✓
Number of discrete graphics cards installed	1	Password protection type	HDD, Power on, Supervisor
Audio		Certificates	
Audio system	Dolby Audio	Compliance certificates	RoHS
Number of built-in speakers	2	Sustainability	
Speakers manufacturer	Harman Kardon	Sustainability certificates	ENERGY STAR
Speaker power	2 W	Weight & dimensions	
Built-in microphone	✓	Width	378 mm
Camera		Depth	260 mm
Front camera	✓	Height	22 mm
Front camera resolution (numeric)	1 MP	Weight *	2.2 kg
Front camera resolution	1280 x 720 pixels	Packaging content	
Front camera signal format	720p	AC adapter included *	✓
Network		Manual	✓
Wi-Fi	✓	Other features	
Wi-Fi standards	Wi-Fi 5 (802.11ac)	3D	✗
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Bluetooth version	4.1		

Other features

Maximum internal memory (64-bit) 16 GB

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