



Lenovo IdeaPad 520 Intel® Core™ i7 i7-7500U Computer portatile 39,6 cm (15.6") Full HD 16 GB DDR4-SDRAM 1,13 TB HDD+SSD Wi-Fi 5 (802.11ac) Windows 10 Home Grigio



Marchio : Lenovo

Famiglia del prodotto:
IdeaPad

Codice prodotto: 80YL007VIX

Nome del prodotto : 520

Lenovo IdeaPad 520. Tipo di prodotto: Computer portatile, Fattore di forma: Clamshell. Famiglia processore: Intel® Core™ i7, Modello del processore: i7-7500U, Frequenza del processore: 2,7 GHz. Dimensioni diagonale schermo: 39,6 cm (15.6"), Tipologia HD: Full HD, Risoluzione del display: 1920 x 1080 Pixel. RAM installata: 16 GB, Tipo di RAM: DDR4-SDRAM. Capacità totale di archiviazione: 1,13 TB, Supporto di memoria: HDD+SSD, Tipo drive ottico: DVD±RW. Sistema operativo incluso: Windows 10 Home. Colore del prodotto: Grigio



Design		Ports & interfaces	
Colour name	Iron Grey	Combo headphone/mic port	✓
Product type *	Laptop	Performance	
Product colour *	Grey	Motherboard chipset	Intel SoC
Form factor *	Clamshell	Keyboard	
Housing material	Metal	Pointing device	Touchpad
Display		Numeric keypad *	✓
Display diagonal *	39.6 cm (15.6")	Keyboard backlit	✓
Display resolution *	1920 x 1080 pixels	Windows keys	✓
Touchscreen *	✗	Software	
HD type	Full HD	Operating system architecture	64-bit
Panel type	IPS	Operating system installed *	Windows 10 Home
LED backlight	✓	Processor special features	
Native aspect ratio	16:9	Intel® Wireless Display (Intel® WiDi)	✓
Screen shape	Flat	Intel® My WiFi Technology (Intel® MWT)	✓
Display brightness	250 cd/m²	Intel® Smart Response Technology	✓
Processor		Intel® Identity Protection Technology (Intel® IPT)	✓
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i7	Intel® Turbo Boost Technology	2.0
Processor generation	7th gen Intel® Core™ i7	Intel® Small Business Advantage (Intel® SBA)	✓
Processor model *	i7-7500U	Enhanced Intel SpeedStep Technology	✓
Processor cores	2	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel Clear Video Technology	✓
Processor boost frequency	3.5 GHz	Intel® InTru™ 3D Technology	✓
Processor frequency *	2.7 GHz	Intel® Insider™	✓
System bus rate	4 GT/s	Intel® Quick Sync Video Technology	✓
Processor cache	4 MB	Intel Flex Memory Access	✓
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket	BGA 1356	Intel Trusted Execution Technology	✗
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor codename	Kaby Lake		
Bus type	OPI		
Stepping	H0		
Thermal Design Power (TDP)	15 W		
Configurable TDP-up frequency	2.9 GHz		
Configurable TDP-up	25 W		
Configurable TDP-down	7.5 W		

Processor		Processor special features	
Configurable TDP-down frequency	0.8 GHz	Intel Enhanced Halt State	✓
Tjunction	100 °C	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum number of PCI Express lanes	12	Intel® Secure Key	✓
PCI Express slots version	3.0	Intel TSX-NI	✗
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1	Intel Stable Image Platform Program (SIPP)	✗
ECC supported by processor	✗	Intel® OS Guard	✓
Memory		Intel Software Guard Extensions (Intel SGX)	✓
Internal memory *	16 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Internal memory type	DDR4-SDRAM	Intel 64	✓
Memory clock speed	2133 MHz	Execute Disable Bit	✓
Memory form factor	On-board + SO-DIMM	Idle States	✓
Memory slots	1x SO-DIMM	Thermal Monitoring Technologies	✓
Maximum internal memory *	16 GB	Processor package size	42 x 24 mm
Storage		Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Total storage capacity *	1.13 TB	Processor code	SR2ZV
Storage media *	HDD+SSD	CPU configuration (max)	1
Number of HDDs installed	1	Embedded options available	✗
HDD capacity	1 TB	Graphics & IMC lithography	14 nm
HDD interface	SATA III	Intel Virtualization Technology for Directed I/O (VT-d)	✓
HDD size	2.5"	Intel Identity Protection Technology version	1.00
Number of SSDs installed	1	Intel Smart Response Technology version	1.00
SSD capacity	128 GB	Intel Stable Image Platform Program (SIPP) version	0.00
Optical drive type *	DVD±RW	Intel Secure Key Technology version	1.00
Card reader integrated	✓	Intel TSX-NI version	0.00
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Virtualization Technology (VT-x)	✓
Graphics		Processor ARK ID	95451
On-board graphics card *	✓	Conflict-Free processor	✓
On-board graphics card family	Intel® HD Graphics	Battery	
On-board graphics card model *	Intel® HD Graphics 620	Battery technology	Lithium Polymer (LiPo)
On-board graphics card base frequency	300 MHz	Number of battery cells	2
On-board graphics card dynamic frequency (max)	1050 MHz	Battery life (max)	6 h
Maximum on-board graphics card memory	32 GB	Power	
On-board graphics card DirectX version	12.0	AC adapter frequency	50 - 60 Hz
On-board graphics card OpenGL version	4.4	AC adapter input voltage	100 - 240 V
On-board graphics card ID	0x5916	DC-in jack	✓
Audio		Security	
Audio system	Dolby Audio	Cable lock slot	✓
Number of built-in speakers	2	Trusted Platform Module (TPM)	✗
Speakers manufacturer	Harman Kardon	Password protection	✓
Speaker power	2 W	Password protection type	HDD, Power on, Supervisor
Built-in microphone	✓	Certificates	
Camera		Compliance certificates	RoHS
Front camera	✓	Sustainability	
Front camera resolution (numeric)	1 MP	Sustainability certificates	ENERGY STAR
Front camera resolution	1280 x 720 pixels	Weight & dimensions	
Front camera signal format	720p	Width	378 mm
Auto focus	✗	Depth	260 mm
Network		Height	22 mm
Wi-Fi	✓		
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)		

Network		Weight & dimensions	
Ethernet LAN	✓	Weight *	2.2 kg
Ethernet LAN data rates	10,100,1000 Mbit/s	Packaging content	
Bluetooth	✓	AC adapter included *	✓
Bluetooth version	4.1	Manual	✓
Ports & interfaces		Power cord included	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Other features	
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	LightScribe	✗
Ethernet LAN (RJ-45) ports	1	3D	✗
HDMI ports quantity *	1	Maximum internal memory (64-bit)	16 GB
Microphone in	✗		

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