



Lenovo IdeaPad 510 Intel® Core™ i5 i5-7200U Laptop 39,6 cm (15.6") Full HD 4 GB DDR4-SDRAM 500 GB HDD NVIDIA® GeForce® 940MX Windows 10 Home Black, Silver

Brand : Lenovo

Product family: IdeaPad

Product code: 80SV00Q1RK

Product name : 510



39.624 cm (15.6") LED Full HD 1920 x 1080, Intel Core i5-7200U (3M Cache, 2.5GHz), 4GB DDR4, nVidia GeForce 940MX 2GB, 500GB HDD, WLAN, Ethernet, Bluetooth, Windows 10 Home 64-Bit
Lenovo IdeaPad 510. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-7200U, Processor frequency: 2,5 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 4 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 500 GB, Storage media: HDD. On-board graphics card model: Intel® HD Graphics 620. Operating system installed: Windows 10 Home. Product colour: Black, Silver

Design		Ports & interfaces	
Product type *	Laptop	VGA (D-Sub) ports quantity	1
Product colour *	Black, Silver	Microphone in	✗
Form factor *	Clamshell	Combo headphone/mic port	✓
Housing material	Acrylonitrile butadiene styrene (ABS), Plastic, Polycarbonate (PC)	Docking connector	✗
Market positioning	Business	CardBus PCMCIA slot type	✗
Display		SmartCard slot	✗
Display diagonal *	39,6 cm (15.6")	Performance	
Display resolution *	1920 x 1080 pixels	Motherboard chipset	Intel SoC
Touchscreen *	✗	Keyboard	
HD type	Full HD	Pointing device	Touchpad
Panel type	IPS	Numeric keypad *	✓
LED backlight	✓	Windows keys	✓
Native aspect ratio	16:9	Software	
Screen shape	Flat	Operating system architecture	64-bit
Display brightness	200 cd/m²	Operating system installed *	Windows 10 Home
Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Wireless Display (Intel® WiDi)	✓
Processor family *	Intel® Core™ i5	Intel® My WiFi Technology (Intel® MWT)	✓
Processor generation	7th gen Intel® Core™ i5	Intel® Smart Response Technology	✓
Processor model *	i5-7200U	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores	2	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	4	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3,1 GHz	Intel® Small Business Advantage (Intel® SBA)	✓
Processor frequency *	2,5 GHz	Enhanced Intel SpeedStep Technology	✓
System bus rate	4 GT/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache	3 MB	Intel Clear Video Technology	✓
Processor cache type	Smart Cache	Intel® InTru™ 3D Technology	✓
Processor socket	BGA 1356	Intel® Insider™	✓
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	2,7 GHz		

Processor		Processor special features	
Configurable TDP-up	25 W	Intel® Quick Sync Video Technology	✓
Configurable TDP-down	7,5 W	Intel Flex Memory Access	✓
Configurable TDP-down frequency	0,8 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Tjunction	100 °C	Intel Trusted Execution Technology	✗
Maximum number of PCI Express lanes	12	Intel Enhanced Halt State	✓
PCI Express slots version	3.0	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1	Intel® Secure Key	✓
ECC supported by processor	✗	Intel TSX-NI	✗
Memory		Intel Stable Image Platform Program (SIPP)	✗
Internal memory *	4 GB	Intel® OS Guard	✓
Internal memory type	DDR4-SDRAM	Intel Software Guard Extensions (Intel SGX)	✓
Memory clock speed	2133 MHz	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 *	12 GB	Idle States	✓
Storage		Thermal Monitoring Technologies	✓
Total storage capacity *	500 GB	Processor package size	42 x 24 mm
Storage media *	HDD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Number of hard drives installed	1	Processor code	SR2ZU
Hard drive capacity	500 GB	CPU configuration (max)	1
Hard drive size	2.5"	Embedded options available	✗
Card reader integrated	✓	Graphics & IMC lithography	14 nm
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel Identity Protection Technology version	1,00
Discrete graphics card model *	NVIDIA® GeForce® 940MX	Intel Smart Response Technology version	1,00
Discrete graphics card memory	2 GB	Intel Stable Image Platform Program (SIPP) version	0,00
On-board graphics card *	✓	Intel Secure Key Technology version	1,00
Discrete graphics card *	✓	Intel TSX-NI version	0,00
On-board graphics card family	Intel® HD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 620	Processor ARK ID	95443
On-board graphics card base frequency	300 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	1000 MHz	Battery	
Maximum on-board graphics card memory	32 GB	Battery technology	Lithium Polymer (LiPo)
On-board graphics card DirectX version	12.0	Power	
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	✓
Number of built-in speakers	2	Security	
Speakers manufacturer	Harman Kardon	Cable lock slot	✓
Speaker power	2 W	Password protection	✓
Built-in microphone	✓	Password protection type	HDD, Power on, Supervisor
Camera		Certificates	
Front camera	✓	Compliance certificates	RoHS
Front camera resolution (numeric)	1 MP	Sustainability	
Front camera resolution	1280 x 720 pixels	Sustainability certificates	EPEAT Silver, ENERGY STAR
Front camera signal format	720p	Weight & dimensions	
Network		Width	379 mm
Wi-Fi	✓		
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		

Network		Weight & dimensions	
Bluetooth	✓	Depth	260 mm
Bluetooth version	4.1	Height	22,9 mm
Ports & interfaces		Weight *	2,2 kg
USB 2.0 ports quantity *	1	Packaging content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	AC adapter included *	✓
Ethernet LAN (RJ-45) ports	1	Manual	✓
HDMI ports quantity *	1	Power cord included	✓
DVI port	✗	Other features	
		LightScribe	✗

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