Lenovo

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	
Product type *	Laptop
Product colour *	Black, Silver
Form factor *	Clamshell
Housing material	Acrylonitrile butadiene styrene (ABS), Plastic, Polycarbonate (PC)
Market positioning	Business

Display	
Display diagonal *	39,6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✗
HD type	Full HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Screen shape	Flat
Display brightness	200 cd/m²

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	7th gen Intel® Core™ i5
Processor model *	i5-7200U
Processor cores	2
Processor threads	4
Processor boost frequency	3,1 GHz
Processor frequency *	2,5 GHz
System bus rate	4 GT/s
Processor cache	3 MB
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
Configurable TDP-up frequency	2,7 GHz

Ports & interfaces	
VGA (D-Sub) ports quantity	1
Microphone in	✗
Combo headphone/mic port	✔
Docking connector	✗
CardBus PCMCIA slot type	✗
SmartCard slot	✗

Performance	
Motherboard chipset	Intel SoC

Keyboard	
Pointing device	Touchpad
Numeric keypad *	✔
Windows keys	✔

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

Processor special features	
Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Smart Response Technology	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® Small Business Advantage (Intel® SBA)	✔
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✔
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔

Processor

Configurable TDP-up	25 W
Configurable TDP-down	7,5 W
Configurable TDP-down frequency	0,8 GHz
Tjunction	100 °C
Maximum number of PCI Express lanes	12
PCI Express slots version	3.0
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1
ECC supported by processor	✘

Memory

Internal memory *	4 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	2133 MHz
Memory form factor	On-board + SO-DIMM
Memory slots	1x SO-DIMM
Maximum internal memory *	12 GB

Storage

Total storage capacity *	500 GB
Storage media *	HDD
Number of hard drives installed	1
Hard drive capacity	500 GB
Hard drive size	2.5"
Card reader integrated	✔
Compatible memory cards	MMC, SD, SDHC, SDXC

Graphics

Discrete graphics card model *	NVIDIA® GeForce® 940MX
Discrete graphics card memory	2 GB
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 620
On-board graphics card base frequency	300 MHz
On-board graphics card dynamic frequency (max)	1000 MHz
Maximum on-board graphics card memory	32 GB
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	0x5916

Audio

Number of built-in speakers	2
Speakers manufacturer	Harman Kardon
Speaker power	2 W
Built-in microphone	✔

Camera

Front camera	✔
Front camera resolution (numeric)	1 MP
Front camera resolution	1280 x 720 pixels
Front camera signal format	720p

Network

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

Processor special features

Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
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	42 x 24 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor code	SR2ZU
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	14 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1,00
Intel Smart Response Technology version	1,00
Intel Stable Image Platform Program (SIPP) version	0,00
Intel Secure Key Technology version	1,00
Intel TSX-NI version	0,00
Intel Virtualization Technology (VT-x)	✔
Processor ARK ID	95443
Conflict-Free processor	✔

Battery

Battery technology	Lithium Polymer (LiPo)

Power

AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
DC-in jack	✔

Security

Cable lock slot	✔
Password protection	✔
Password protection type	HDD, Power on, Supervisor

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	EPEAT Silver, ENERGY STAR

Weight & dimensions

Width	379 mm

Network	
Bluetooth	✔
Bluetooth version	4.1

Ports & interfaces	
USB 2.0 ports quantity *	1
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
DVI port	✘

Weight & dimensions	
Depth	260 mm
Height	22,9 mm
Weight *	2,2 kg

Packaging content	
AC adapter included *	✔
Manual	✔
Power cord included	✔

Other features	
LightScribe	✘

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