



Lenovo IdeaPad 510 Intel® Core™ i5 i5-7200U Laptop 39.6 cm (15.6") Full HD 6 GB DDR4-SDRAM 1 TB HDD NVIDIA® GeForce® 940MX Windows 10 Home Silver



Brand : Lenovo

Product family: IdeaPad

Product code: 80SV005BUS

Product name : 510

Intel Core i5-7200U (2.50 GHz), 6GB RAM, 1000GB HDD, 15.6" FHD (1920x1080) IPS, Intel HD Graphics 620 + NVIDIA GeForce 940MX, Windows 10 Home

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: 6 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1 TB, Storage media: HDD, Optical drive type: DVD±RW. Operating system installed: Windows 10 Home. Product colour: Silver



Design		Ports & interfaces	
Product type *	Laptop	HDMI ports quantity *	1
Product colour *	Silver	DVI port	✗
Form factor *	Clamshell	VGA (D-Sub) ports quantity	1
Display		Combo headphone/mic port	✓
Display diagonal *	39.6 cm (15.6")	Docking connector	✗
Display resolution *	1920 x 1080 pixels	Charging port type	DC-in jack
Touchscreen *	✗	Keyboard	
HD type	Full HD	Pointing device	Touchpad
Panel type	IPS	Numeric keypad *	✓
LED backlight	✓	Keyboard backlight	✓
Native aspect ratio	16:9	Windows keys	✓
Processor		Software	
Processor manufacturer *	Intel	Operating system architecture	64-bit
Processor family *	Intel® Core™ i5	Operating system installed *	Windows 10 Home
Processor generation	7th gen Intel® Core™ i5	Processor special features	
Processor model *	i5-7200U	Intel® Wireless Display (Intel® WiDi)	✓
Processor cores	2	Intel® My WiFi Technology (Intel® MWT)	✓
Processor threads	4	Intel® Smart Response Technology	✓
Processor boost frequency	3.1 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor frequency *	2.5 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	4 GT/s	Intel® Turbo Boost Technology	2.0
Processor cache	3 MB	Intel® Small Business Advantage (Intel® SBA)	✓
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Processor socket	BGA 1356	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor lithography	14 nm	Intel Clear Video Technology	✓
Processor operating modes	64-bit	Intel® InTru™ 3D Technology	✓
Processor codename	Kaby Lake	Intel® Insider™	✓
Bus type	OPI	Intel® Quick Sync Video Technology	✓
Stepping	H0	Intel Flex Memory Access	✓
Thermal Design Power (TDP)	15 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Configurable TDP-up frequency	2.7 GHz		
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		

Processor		Processor special features	
PCI Express slots version	3.0	Intel Trusted Execution Technology	✗
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1	Intel Enhanced Halt State	✓
ECC supported by processor	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Memory		Intel® Secure Key	✓
Internal memory *	6 GB	Intel TSX-NI	✗
Internal memory type	DDR4-SDRAM	Intel Stable Image Platform Program (SIPP)	✗
Memory clock speed	2133 MHz	Intel® OS Guard	✓
Memory form factor	On-board + SO-DIMM	Intel Software Guard Extensions (Intel SGX)	✓
Memory slots	1x SO-DIMM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Maximum internal memory *	12 GB	Intel 64	✓
Storage		Execute Disable Bit	✓
Total storage capacity *	1 TB	Idle States	✓
Storage media *	HDD	Thermal Monitoring Technologies	✓
Number of HDDs installed	1	Processor package size	42 x 24 mm
HDD capacity	1 TB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD speed	5400 RPM	Processor code	SR2ZU
HDD size	2.5"	CPU configuration (max)	1
Optical drive type *	DVD±RW	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	4 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	Number of battery cells	2
On-board graphics card OpenGL version	4.4	Battery capacity *	39 Wh
On-board graphics card ID	0x5916	Battery life (max)	5 h
Audio		Security	
Number of built-in speakers	2	Cable lock slot	✓
Speaker power	2 W	Fingerprint reader	✗
Built-in microphone	✓	Password protection	✓
Camera		Password protection type	HDD, Power on, Supervisor
Front camera	✓	Sustainability	
Front camera resolution (numeric)	1 MP	Sustainability certificates	RoHS, EPEAT Silver, ENERGY STAR
Front camera signal format	720p	Weight & dimensions	
Network		Width	379 mm
Wi-Fi	✓	Depth	260 mm
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Height	22.9 mm
Ethernet LAN	✓	Weight *	2.1 kg
Ethernet LAN data rates	10,100,1000 Mbit/s	Other features	
Bluetooth	✓	LightScribe	✗
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		

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