



Lenovo IdeaPad 510 15 Intel® Core™ i7 i7-6500U Laptop 39,6 cm (15.6") Full HD 8 GB DDR4-SDRAM 1 TB HDD NVIDIA® GeForce® 940MX FreeDOS Metallic, White



Brand : Lenovo

Product family: IdeaPad

Product code: 80SR007LTA

Product name : 510 15

Intel Core i7-6500U Processor (4M Cache, up to 3.10 GHz), 8GB RAM, 1000GB HDD, 15.6" FHD (1920x1080) IPS, Intel HD Graphics 520 + NVIDIA GeForce 940MX, FreeDOS
Lenovo IdeaPad 510 15. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-6500U, Processor frequency: 2,5 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, Optical drive type: DVD±RW. Operating system installed: FreeDOS. Product colour: Metallic, White

Design		Performance	
Product type *	Laptop	Motherboard chipset	Intel SoC
Product colour *	Metallic, White	Keyboard	
Form factor *	Clamshell	Pointing device	Clickpad
Housing material	Acrylonitrile butadiene styrene (ABS), Plastic	Numeric keypad *	✓
Display		Windows keys	✓
Display diagonal *	39,6 cm (15.6")	Software	
Display resolution *	1920 x 1080 pixels	Operating system installed *	FreeDOS
Touchscreen *	✗	Processor special features	
HD type	Full HD	Intel® Wireless Display (Intel® WiDi)	✓
Panel type	IPS	Intel® My WiFi Technology (Intel® MWT)	✓
LED backlight	✓	Intel® Smart Response Technology	✓
Native aspect ratio	16:9	Intel® Identity Protection Technology (Intel® IPT)	✓
Display brightness	200 cd/m²	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Dual-screen	✗	Intel® Turbo Boost Technology	2.0
Processor		Intel® Small Business Advantage (Intel® SBA)	✓
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Core™ i7	Intel® Built-in Visuals Technology	✓
Processor generation	6th gen Intel® Core™ i7	Intel HD Graphics	✓
Processor model *	i7-6500U	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cores	2	Intel Clear Video Technology	✓
Processor threads	4	Intel® InTru™ 3D Technology	✓
Processor boost frequency	3,1 GHz	Intel® Insider™	✓
Processor frequency *	2,5 GHz	Intel® Quick Sync Video Technology	✓
System bus rate	4 GT/s	Intel Flex Memory Access	✓
Processor cache	4 MB	Intel® Smart Cache	✓
Processor cache type	Smart Cache		
Processor socket	LGA 1356 (Socket B2)		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-6500 Mobile series		
Processor codename	Skylake		
Bus type	OPI		

Processor		Processor special features	
Stepping	D1	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	15 W	Intel Trusted Execution Technology	✗
Configurable TDP-up frequency	2,6 GHz	Intel Enhanced Halt State	✓
Configurable TDP-up	25 W	Intel VT-x with Extended Page Tables (EPT)	✓
Configurable TDP-down	7,5 W	Intel® Secure Key	✓
Configurable TDP-down frequency	0,8 GHz	Intel TSX-NI	✗
Tjunction	100 °C	Intel Stable Image Platform Program (SIPP)	✗
Maximum number of PCI Express lanes	12	Intel® OS Guard	✓
PCI Express slots version	3.0	Intel Software Guard Extensions (Intel SGX)	✓
PCI Express configurations	1x4, 4x1	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
ECC supported by processor	✗	Intel 64	✓
Memory		Execute Disable Bit	✓
Internal memory *	8 GB	Idle States	✓
Internal memory type	DDR4-SDRAM	Thermal Monitoring Technologies	✓
Memory clock speed	2133 MHz	Processor package size	42 X 24 mm
Memory layout (slots x size)	1 x 8 GB	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Memory slots	1x SO-DIMM	Processor code	SR2EZ
Storage		CPU configuration (max)	1
Total storage capacity *	1 TB	Embedded options available	✗
Storage media *	HDD	Graphics & IMC lithography	14 nm
Number of hard drives installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Hard drive capacity	1 TB	Intel Identity Protection Technology version	1,00
Hard drive interface	SATA III	Intel Smart Response Technology version	1,00
Hard drive speed	5400 RPM	Intel Stable Image Platform Program (SIPP) version	0,00
Hard drive size	2.5"	Intel Secure Key Technology version	1,00
Optical drive type *	DVD±RW	Intel Small Business Advantage (SBA) version	1,00
Card reader integrated	✓	Intel TSX-NI version	1,00
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Virtualization Technology (VT-x)	✓
Graphics		Processor ARK ID	88194
Discrete graphics card model *	NVIDIA® GeForce® 940MX	Conflict-Free processor	✓
On-board graphics card *	✓	Battery	
Discrete graphics card *	✓	Battery technology	Lithium Polymer (LiPo)
On-board graphics card family	Intel® HD Graphics	Number of battery cells	2
On-board graphics card model *	Intel® HD Graphics 520	Battery capacity *	39 Wh
On-board graphics card base frequency	300 MHz	Battery life (max)	5 h
On-board graphics card dynamic frequency (max)	1050 MHz	Power	
Maximum on-board graphics card memory	1,74 GB	AC adapter power	65 W
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	1916	Security	
Number of discrete graphics cards installed	1	Fingerprint reader	✗
Graphics card Open GL support	✓	Password protection	✓
Audio		Password protection type	HDD, Power on, Supervisor
Number of built-in speakers	2	Operational conditions	
Speaker power	2 W	Operating temperature (T-T)	5 - 35 °C
Built-in microphone	✓	Storage temperature (T-T)	5 - 43 °C
Camera		Operating relative humidity (H-H)	8 - 95%
Front camera	✓	Storage relative humidity (H-H)	5 - 95%
Front camera resolution (numeric)	1 MP		
Front camera resolution	1280 x 720 pixels		

Network		Operational conditions	
Wi-Fi	✓	Operating altitude	0 - 2438 m
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Certificates	
Ethernet LAN	✓	Compliance certificates	RoHS
Bluetooth	✓	Sustainability	
Bluetooth version	4.0	Sustainability certificates	EPEAT Silver, ENERGY STAR
Ports & interfaces		Weight & dimensions	
USB 2.0 ports quantity *	1	Width	379 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Depth	260 mm
Ethernet LAN (RJ-45) ports	1	Height	22,9 mm
HDMI ports quantity *	1	Weight *	2,1 kg
DVI port	✗	Packaging content	
Mini DisplayPort/Thunderbolt combo port	✗	Mouse included	✗
VGA (D-Sub) ports quantity	1	AC adapter included *	✓
LAN/VGA combo port	✗	Handheld remote control	✗
Headphone outputs	1	Manual	✓
Microphone in	✓	Power cord included	✓
Combo headphone/mic port	✓	Other features	
Docking connector	✗	LightScribe	✗
ExpressCard slot	✗	3D	✗
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
TV-out	✗		

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