



Lenovo IdeaPad Y510p Intel® Core™ i7 i7-4700MQ Laptop 39,6 cm (15.6") 16 GB DDR3L-SDRAM 1 TB Hybrid-HDD NVIDIA® GeForce® GT 755M Windows 8 Black

Brand : Lenovo

Product family: IdeaPad

Product code: 59-410776

Product name : Y510p

IdeaPad Y510p - Intel Core i7-4700MQ (2.4 GHz), 16GB DDR3L RAM, 1TB SSHD, 15.6" HD (1366x768), 2x NVIDIA GeForce GT 755M 2GB, Gigabit Ethernet, Wi-Fi 802.11 b/g/n, Bluetooth 4.0, Windows 8 64-bit
Lenovo IdeaPad Y510p. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4700MQ, Processor frequency: 2,4 GHz. Display diagonal: 39,6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 16 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 1 TB, Storage media: Hybrid-HDD. On-board graphics card model: Intel® HD Graphics 4600, Discrete graphics card model: NVIDIA® GeForce® GT 755M. Operating system installed: Windows 8. Product colour: Black



Design		Keyboard	
Product type *	Laptop	Keyboard backlit	✓
Product colour *	Black	Full-size keyboard	✓
Form factor *	Clamshell	Windows keys	✓
Market positioning	Gaming		
Display		Software	
Display diagonal *	39.6 cm (15.6")	Operating system architecture	64-bit
Display resolution *	1366 x 768 pixels	Drivers included	✓
Touchscreen *	✗	Operating system installed *	Windows 8
LED backlight	✓		
Native aspect ratio	16:9	Processor special features	
Display surface	Matt	Intel® Wireless Display (Intel® WiDi)	✓
Processor		Intel® My WiFi Technology (Intel® MWT)	✓
Processor manufacturer *	Intel	Intel Smart Connect Technology	✗
Processor family *	Intel® Core™ i7	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor generation	4th gen Intel® Core™ i7	Intel® Rapid Start Technology	✗
Processor model *	i7-4700MQ	Intel® Smart Response Technology	✗
Processor cores	4	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor threads	8	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	3.4 GHz	Intel® Turbo Boost Technology	2.0
Processor frequency *	2.4 GHz	Intel® Small Business Advantage (Intel® SBA)	✗
Processor cache	6 MB	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor cache type	Smart Cache	Intel® High Definition Audio (Intel® HD Audio)	✗
Processor socket	PGA946	Intel® Active Management Technology (Intel® AMT)	✗
Processor lithography	22 nm	Enhanced Intel SpeedStep Technology	✓
Processor operating modes	64-bit	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor series	Intel Core i7-4700 Mobile series	Intel Clear Video Technology	✗
Processor codename	Haswell	Intel® InTru™ 3D Technology	✓
Bus type	DMI2		
FSB Parity	✗		
Stepping	C0		
Thermal Design Power (TDP)	47 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		

Processor		Processor special features	
PCI Express slots version	3.0	Intel® Insider™	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Quick Sync Video Technology	✓
ECC supported by processor	✗	Intel Flex Memory Access	✗
Memory		Intel® Smart Cache	✓
Internal memory *	16 GB	Intel® AES New Instructions (Intel® AES-NI)	✓
Internal memory type	DDR3L-SDRAM	Intel Trusted Execution Technology	✗
Memory clock speed	1600 MHz	Intel Enhanced Halt State	✓
Memory form factor	SO-DIMM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory layout (slots x size)	2 x 8 GB	Intel Demand Based Switching	✗
Memory slots	2x SO-DIMM	Intel® Secure Key	✓
Maximum internal memory *	16 GB	Intel TSX-NI	✗
Storage		Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Total storage capacity *	1 TB	Intel 64	✓
Storage media *	Hybrid-HDD	Execute Disable Bit	✓
HDD interface	SATA	Idle States	✓
HDD speed	5400 RPM	Thermal Monitoring Technologies	✓
Hybrid-HDD cache type	SSD	Processor package size	37.5 x 32 x 1.6 mm
Hybrid-HDD capacity	1 TB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Hybrid-HDD cache memory	8 GB	Processor code	SR15H
HDD size	2.5"	CPU configuration (max)	1
Optical drive type *	✗	Embedded options available	✗
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC, SDXC, xD	Intel Identity Protection Technology version	1.00
Graphics		Intel Secure Key Technology version	1.00
Discrete graphics card model *	NVIDIA® GeForce® GT 755M	Intel TSX-NI version	0.00
Discrete graphics card memory	2 GB	Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Dual Display Capable Technology	✗
Discrete graphics card *	✓	Intel FDI Technology	✓
On-board graphics card family	Intel® HD Graphics	Intel Rapid Storage Technology	✗
On-board graphics card model *	Intel® HD Graphics 4600	Intel Fast Memory Access	✗
On-board graphics card base frequency	400 MHz	Processor ARK ID	75117
On-board graphics card dynamic frequency (max)	1150 MHz	Conflict-Free processor	✓
Maximum on-board graphics card memory	1.74 GB	Battery	
On-board graphics card DirectX version	11.1	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card ID	0x416	Number of battery cells	6
Number of discrete graphics cards supported	2	Battery capacity *	72 Wh
Number of discrete graphics cards installed	2	Battery life (max)	5 h
Audio		Power	
Audio system	Dolby Home Theater v4	AC adapter power	120 W
Number of built-in speakers	2	AC adapter frequency	50 - 60 Hz
Speakers manufacturer	JBL	AC adapter input voltage	100 - 240 V
Speaker power	1.5 W	DC-in jack	✓
Built-in microphone	✓	Security	
Camera		Cable lock slot	✓
Front camera	✓	Cable lock slot type	Kensington
Front camera resolution	1280 x 720 pixels	Password protection	✓
Network		Password protection type	BIOS
Wi-Fi	✓	Weight & dimensions	
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	387 mm
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		

Network		Weight & dimensions	
Bluetooth	✓	Depth	259 mm
Bluetooth version	4.0	Height	36 mm
Ports & interfaces		Weight *	2.8 kg
		Packaging content	
USB 2.0 ports quantity *	1	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Manual	✓
Ethernet LAN (RJ-45) ports	1	Power cord included	✓
HDMI ports quantity *	1	Other features	
DVI port	✗	LightScribe	✗
VGA (D-Sub) ports quantity	1	Maximum internal memory (64-bit)	16 GB
Headphone outputs	1	Intel® Virtualization Technology (Intel® VT)	VT-x
S/PDIF out port	✗		
Microphone in	✓		
Docking connector	✗		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
Performance			
Motherboard chipset	Intel® HM86		
Keyboard			
Pointing device	Touchpad		
Numeric keypad *	✓		

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