



Lenovo IdeaPad Z510 Intel® Core™ i7 i7-4702MQ Laptop 39.6 cm (15.6") Full HD 8 GB DDR3-SDRAM 1 TB Hybrid-HDD NVIDIA® GeForce® GT 740M Windows 8.1 Italian Black, Silver



Brand : Lenovo

Product family: IdeaPad

Product code: 59414970

Product name : Z510

Intel Core i7-4702MQ (2.2 GHz), 8GB DDR3 RAM, 1TB+8GB SSHD, 15.6" FHD LED (1920x1080), NVIDIA GeForce GT 740M 2GB, Wi-Fi 802.11 b/g/n, Fast Ethernet, DVD-SM DL, Windows 8.1 64-bit
Lenovo IdeaPad Z510. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor: i7-4702MQ, Processor frequency: 2.2 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: DDR3-SDRAM. Total storage capacity: 1 TB, Storage media: Hybrid-HDD, Optical drive: DVD Super Multi DL. Operating system installed: Windows 8.1. Product colour: Black, Silver

Design		Ports & interfaces	
Product type *	Laptop	CardBus PCMCIA slot type	✗
Product colour *	Black, Silver	SmartCard slot	✗
Form factor *	Clamshell	Performance	
Housing material	Magnesium, Polycarbonate (PC)	Chipset	Intel® HM86
Display		Keyboard	
Display diagonal *	39.6 cm (15.6")	Pointing device	Touchpad
Display resolution *	1920 x 1080 pixels	Numeric keypad *	✗
Touchscreen *	✗	Keyboard backlit	✓
HD type	Full HD	Full-size keyboard	✓
LED backlight	✓	Windows keys	✓
Native aspect ratio	16:9	Keyboard language	Italian
Display brightness	300 cd/m²	Software	
Processor		Operating system architecture	64-bit
Processor manufacturer *	Intel	Operating system installed *	Windows 8.1
Processor family *	Intel® Core™ i7	Processor special features	
Processor generation	4th gen Intel® Core™ i7	Intel Wireless Display (WiDi) Technology	✓
Processor *	i7-4702MQ	Intel My WiFi Technology	✓
Processor number of cores	4	Intel Smart Connect Technology	✗
Processor threads	8	Intel Anti-Theft Technology	✓
Processor boost frequency	3.2 GHz	Intel® Rapid Start Technology	✗
Processor frequency *	2.2 GHz	Intel® Smart Response Technology	✗
Processor cache	6 MB	Intel Identity Protection Technology	✓
Processor cache type	Smart Cache	Intel Hyper-Threading Technology	✓
Processor socket	PGA946	Intel Turbo Boost Technology	2.0
Processor lithography	22 nm	Intel Matrix Storage Technology	✗
Processor operating modes	64-bit	Intel HD Audio Technology	✗
Processor series	Intel Core i7-4700 Mobile series	Intel Active Management Technology	✗
Processor codename	Haswell	Enhanced Intel SpeedStep Technology	✓
Bus type	DMI2		
FSB Parity	✗		
Stepping	C0		
Thermal Design Power (TDP)	37 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel Clear Video HD Technology	✓
PCI Express slots version	3.0	Intel Clear Video Technology	✗
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® InTru™ 3D Technology	✓
ECC supported by processor	✗	Intel® Insider™	✓
Memory		Intel® Quick Sync Video Technology	✓
Internal memory *	8 GB	Intel Flex Memory Access	✗
Internal memory type	DDR3-SDRAM	Intel® Smart Cache	✓
Memory clock speed	1600 MHz	Intel AES New Instructions	✓
Memory form factor	SO-DIMM	Intel Trusted Execution Technology	✗
Memory layout (slots x size)	2 x 4 GB	Intel Enhanced Halt State	✓
Memory slots	2x SO-DIMM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory, maximum *	16 GB	Intel Demand Based Switching	✗
Storage		Intel® Secure Key	✓
Total storage capacity *	1 TB	Intel TSX-NI	✗
Storage media *	Hybrid-HDD	Intel Clear Video Technology for MID	✗
Hard drive interface	SATA	Intel 64	✓
Hard drive rotational speed	5400 RPM	Execute Disable Bit	✓
Hybrid-HDD cache type	Flash	Idle States	✓
Hybrid-HDD capacity	1 TB	Thermal Monitoring Technologies	✓
Hybrid-HDD cache memory	8 GB	Processor package size	37.5 x 32 x 1.6 mm
Hard drive size	2.5"	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Optical drive *	DVD Super Multi DL	Processor code	SR15J
Card reader integrated	✓	CPU configuration (max)	1
Compatible memory cards	MMC, SD	Embedded options available	✗
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✗
Discrete graphics card model *	NVIDIA® GeForce® GT 740M	Intel Identity Protection Technology version	1.00
Discrete graphics card memory	2 GB	Intel Secure Key Technology version	1.00
Discrete graphics memory type	GDDR3	Intel TSX-NI version	0.00
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✓	Intel Dual Display Capable Technology	✗
On-board graphics card family	Intel® HD Graphics	Intel FDI Technology	✓
On-board graphics card model *	Intel® HD Graphics 4600	Intel Rapid Storage Technology	✗
On-board graphics card base frequency	400 MHz	Intel Fast Memory Access	✗
On-board graphics card dynamic frequency (max)	1150 MHz	Processor ARK ID	75119
Maximum on-board graphics card memory	1.74 GB	Conflict-Free processor	✓
On-board graphics card DirectX version	11.1	Battery	
On-board graphics card ID	0x416	Battery technology	Lithium-Ion (Li-Ion)
Number of discrete graphics cards supported	1	Number of battery cells	4
Number of discrete graphics cards installed	1	Battery capacity *	48 Wh
Audio		Battery life (max)	6 h
Audio system	Dolby Home Theater	Power	
Number of built-in speakers	2	AC adapter power	90 W
Speaker power	2 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	Certificates	
Network		Compliance certificates	RoHS
Wi-Fi	✓	Weight & dimensions	
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	380 mm
Ethernet LAN connection	✓	Depth	266 mm

Network		Weight & dimensions	
Ethernet LAN data rates	10,100 Mbit/s	Height	25.6 mm
Bluetooth	✗	Weight *	2.2 kg
Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	2	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Manual	✓
Ethernet LAN (RJ-45) ports	1	Power cord included	✓
HDMI ports quantity *	1	Other features	
DVI port	✗	Maximum internal memory (64-bit)	16 GB
VGA (D-Sub) ports quantity	1		
S/PDIF out port	✗		
Microphone in	✗		
Combo headphone/mic port	✓		
Docking connector	✗		
ExpressCard slot	✗		



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