



Lenovo IdeaPad Z510 Intel® Core™ i5 i5-4200M 39.6 cm (15.6") Full HD
8 GB DDR3-SDRAM 1 TB HDD NVIDIA® GeForce® GT 740M
Windows 8.1 64-bit, 64-bit

Brand : Lenovo

Series : IdeaPad

Model : Z510-00807

SKU : Z510

Lenovo IdeaPad Z510. Processor: Intel® Core™ i5, Model: i5-4200M, Frequency: 2.5 GHz. Display: 39.6 cm (15.6"), HD Type: Full HD, Resolution: 1920 x 1080 pixels. Memory: 8 GB, Type: DDR3-SDRAM. Storage: 1 TB, Type: HDD, Interface: DVD Super Multi DL. Operating System: Windows 8.1. Weight: 2.2 kg



Design		Keyboard	
Product type *	Laptop	Numeric keypad *	✓
Product colour *	Black, Silver	Island-style keyboard	✓
Form factor *	Clamshell	Full-size keyboard	✓
Display		Windows keys	✓
Display diagonal *	39.6 cm (15.6")	Software	
Display resolution *	1920 x 1080 pixels	Operating system architecture	64-bit
Touchscreen *	✗	Operating system installed *	Windows 8.1
HD type	Full HD	Processor special features	
LED backlight	✓	Intel® Wireless Display (Intel® WiDi)	✓
Native aspect ratio	16:9	Intel® My WiFi Technology (Intel® MWT)	✗
Processor		Intel Smart Connect Technology	✗
Processor manufacturer *	Intel	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor family *	Intel® Core™ i5	Intel® Rapid Start Technology	✗
Processor generation	4th gen Intel® Core™ i5	Intel® Smart Response Technology	✗
Processor model *	i5-4200M	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores	2	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	4	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3.1 GHz	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor frequency *	2.5 GHz	Intel® High Definition Audio (Intel® HD Audio)	✗
System bus rate	5 GT/s	Intel® Active Management Technology (Intel® AMT)	✗
Processor cache	3 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	PGA946	Intel Clear Video Technology	✗
Processor lithography	22 nm	Intel® InTru™ 3D Technology	✓
Processor operating modes	64-bit		
Processor series	Intel Core i5-4200 Mobile series		
Processor codename	Haswell		
Bus type	DMI		
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® Insider™	✓
PCI Express slots version	3.0	Intel® Quick Sync Video Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Flex Memory Access	✗
ECC supported by processor	✗	Intel® Smart Cache	✓
Memory		Intel® AES New Instructions (Intel® AES-NI)	✓
Internal memory *	8 GB	Intel Trusted Execution Technology	✗
Internal memory type	DDR3-SDRAM	Intel Enhanced Halt State	✗
Memory clock speed	1600 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory slots	2x SO-DIMM	Intel Demand Based Switching	✗
Maximum internal memory *	16 GB	Intel® Secure Key	✓
Storage		Intel TSX-NI	✗
Total storage capacity *	1 TB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Storage media *	HDD	Intel 64	✓
Number of HDDs installed	1	Execute Disable Bit	✓
HDD capacity	1 TB	Idle States	✓
HDD interface	SATA	Thermal Monitoring Technologies	✓
HDD speed	5400 RPM	Processor package size	37.5 x 37.5 x 4.7 mm
Optical drive type *	DVD Super Multi DL	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Card reader integrated	✓	Processor code	SR1HA
Compatible memory cards	MMC, SD	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	NVIDIA® GeForce® GT 740M	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Discrete graphics card memory	2 GB	Intel Identity Protection Technology version	1.00
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 4600	Intel Dual Display Capable Technology	✗
On-board graphics card base frequency	400 MHz	Intel FDI Technology	✗
On-board graphics card dynamic frequency (max)	1150 MHz	Intel Rapid Storage Technology	✗
Maximum on-board graphics card memory	1.74 GB	Intel Fast Memory Access	✗
On-board graphics card DirectX version	11.1	Processor ARK ID	76348
On-board graphics card ID	0x416	Conflict-Free processor	✓
Audio		Battery	
Audio system	Dolby Home Theater	Battery technology	Lithium-Ion (Li-Ion)
Number of built-in speakers	2	Number of battery cells	4
Speaker power	2 W	Battery life (max)	5 h
Built-in microphone	✓	Power	
Camera		DC-in jack	✓
Front camera	✓	Security	
Network		Cable lock slot	✓
Wi-Fi	✓	Cable lock slot type	Kensington
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Weight & dimensions	
Ethernet LAN	✓	Width	375 mm
Ethernet LAN data rates	10,100 Mbit/s	Depth	263 mm
Bluetooth	✓	Height	25.4 mm
Bluetooth version	4.0	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		
HDMI ports quantity *	1		

Ports & interfaces		Packaging content	
DVI port	×	Power cord included	✓
VGA (D-Sub) ports quantity	1	Other features	
S/PDIF out port	×	3D	×
Microphone in	×		
Combo headphone/mic port	✓		
Docking connector	×		
ExpressCard slot	×		
CardBus PCMCIA slot type	×		
SmartCard slot	×		
Keyboard			
Pointing device	Touchpad		



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