



Lenovo IdeaPad G510 Intel® Core™ i5 i5-4200M Laptop 39.6 cm (15.6") 6 GB DDR3-SDRAM 1 TB HDD AMD Radeon HD 8570M Wi-Fi 4 (802.11n) Windows 8 Black

Brand : Lenovo

Product family: IdeaPad

Product code: 59-409057

Product name : G510

15.6" (1366 x 768, LED), Intel Core i5-4200M, 6GB (DDR3), 1TB (HDD), DVD-RW, AMD Radeon HD 8570M (2GB, GDDR3), 802.11 b/g/n, Bluetooth 4.0, 1 x USB 2.0, 2 x USB 3.0, 1 x VGA, 1 x HDMI, Windows 8, 2.6 kg

Lenovo IdeaPad G510. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor: i5-4200M, Processor frequency: 2.5 GHz. Display diagonal: 39.6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 6 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 1 TB, Storage media: HDD, Optical drive: DVD-RW. On-board graphics card model: Intel® HD Graphics 4600. Operating system installed: Windows 8. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	ExpressCard slot	✗
Product colour *	Black	CardBus PCMCIA slot type	✗
Form factor *	Clamshell	SmartCard slot	✗
Display		Performance	
Display diagonal *	39.6 cm (15.6")	Chipset	Intel® HM86
Display resolution *	1366 x 768 pixels	Keyboard	
Touchscreen *	✗	Pointing device	Touchpad
LED backlight	✓	Numeric keypad *	✓
Native aspect ratio	16:9	Full-size keyboard	✓
Display surface	Gloss	Windows keys	✓
Display brightness	200 cd/m²	Software	
Processor		Operating system architecture	64-bit
Processor manufacturer *	Intel	Operating system installed *	Windows 8
Processor family *	Intel® Core™ i5	Processor special features	
Processor generation	4th gen Intel® Core™ i5	Intel Wireless Display (WiDi) Technology	✓
Processor *	i5-4200M	Intel My WiFi Technology	✗
Processor number of cores	2	Intel Smart Connect Technology	✗
Processor threads	4	Intel Anti-Theft Technology	✓
Processor boost frequency	3.1 GHz	Intel® Rapid Start Technology	✗
Processor frequency *	2.5 GHz	Intel® Smart Response Technology	✗
System bus data transfer rate	5 GT/s	Intel Identity Protection Technology	✓
Processor cache	3 MB	Intel Hyper-Threading Technology	✓
Processor cache type	Smart Cache	Intel Turbo Boost Technology	2.0
Processor socket	PGA946	Intel® Small Business Advantage (Intel® SBA)	✗
Processor lithography	22 nm	Intel Matrix Storage Technology	✗
Processor operating modes	64-bit	Intel HD Audio Technology	✗
Processor series	Intel Core i5-4200 Mobile series	Intel Active Management Technology	✗
Processor codename	Haswell	Enhanced Intel SpeedStep Technology	✓
Bus type	DMI	Intel Clear Video HD Technology	✓
FSB Parity	✗	Intel Clear Video Technology	✗
Stepping	C0		
Thermal Design Power (TDP)	37 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	3.0		
PCI Express configurations	1x16, 2x8, 1x8+2x4		

Processor		Processor special features	
ECC supported by processor	✗	Intel® InTru™ 3D Technology	✓
Memory		Intel® Insider™	✓
Internal memory *	6 GB	Intel® Quick Sync Video Technology	✓
Internal memory type	DDR3-SDRAM	Intel Flex Memory Access	✗
Memory clock speed	1600 MHz	Intel® Smart Cache	✓
Memory form factor	SO-DIMM	Intel AES New Instructions	✓
Memory layout (slots x size)	1 x 2 + 1 x 4 GB	Intel Trusted Execution Technology	✗
Memory slots	2x SO-DIMM	Intel Enhanced Halt State	✗
Memory, maximum *	16 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Storage		Intel Demand Based Switching	✗
Total storage capacity *	1 TB	Intel® Secure Key	✓
Storage media *	HDD	Intel TSX-NI	✗
Number of HDDs installed	1	Intel Clear Video Technology for MID	✗
Hard drive capacity	1 TB	Intel 64	✓
Hard drive interface	SATA	Execute Disable Bit	✓
Hard drive rotational speed	5400 RPM	Idle States	✓
Hard drive size	2.5"	Thermal Monitoring Technologies	✓
Optical drive *	DVD-RW	Processor package size	37.5 x 37.5 x 4.7 mm
Card reader integrated	✓	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Compatible memory cards	MMC, SD	Processor code	SR1HA
Graphics		CPU configuration (max)	1
Discrete graphics card model *	AMD Radeon HD 8570M	Embedded options available	✗
Discrete graphics card memory	2 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Discrete graphics memory type	GDDR3	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	✓
Number of discrete graphics cards supported	1	Battery	
Number of discrete graphics cards installed	1	Battery technology	Lithium-Ion (Li-Ion)
Audio		Number of battery cells	6
Audio system	Dolby Advanced Audio	Battery life (max)	5 h
Number of built-in speakers	2	Power	
Built-in microphone	✓	DC-in jack	✓
Camera		Security	
Front camera	✓	Cable lock slot	✓
Front camera resolution	1280 x 720 pixels	Cable lock slot type	Kensington
Network		Weight & dimensions	
Wi-Fi	✓	Width	377 mm
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Depth	250 mm
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Height	34 mm
Ethernet LAN connection	✓	Weight *	2.6 kg
Ethernet LAN data rates	10,100 Mbit/s	Packaging content	
Bluetooth	✓	AC adapter included *	✓
Bluetooth version	4.0	Manual	✓

Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	1	Power cord included	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Other features	
Ethernet LAN (RJ-45) ports	1	Maximum internal memory (64-bit)	16 GB
HDMI ports quantity *	1	Intel Virtualization Technology	VT-x
DVI port	✗		
VGA (D-Sub) ports quantity	1		
S/PDIF out port	✗		
Microphone in	✗		
Combo headphone/mic port	✓		
Docking connector	✗		

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