



Lenovo IdeaPad G510 Intel® Core™ i5 i5-4200M Laptop 39.6 cm (15.6") 6 GB DDR3-SDRAM 1 TB HDD AMD Radeon R7 M265 Black

Brand : Lenovo

Product family: IdeaPad

Product code: 59-410662

Product name : G510

15.6" (1366 x 768, LED), Intel Core i5-4200M, 6GB (DDR3), 1TB (HDD), DVD-RW, AMD Radeon R7 M265 (2GB), 802.11 b/g/n, Bluetooth 4.0, 1 x USB 2.0, 2 x USB 3.0, 1 x VGA, 1 x HDMI, 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 type: DVD-RW. On-board graphics card model: Intel® HD Graphics 4600, Discrete graphics card model: AMD Radeon R7 M265. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	Combo headphone/mic port	✓
Product colour *	Black	Docking connector	✗
Form factor *	Clamshell	ExpressCard slot	✗
Display		CardBus PCMCIA slot type	✗
Display diagonal *	39.6 cm (15.6")	SmartCard slot	✗
Display resolution *	1366 x 768 pixels	Performance	
Touch screen *	✗	Motherboard chipset	Intel® HM86
LED backlight	✓	Keyboard	
Native aspect ratio	16:9	Pointing device	Touchpad
Display surface	Gloss	Numeric keypad *	✓
Display brightness	200 cd/m²	Full-size keyboard	✓
Processor		Windows keys	✓
Processor manufacturer *	Intel	Software	
Processor family *	Intel® Core™ i5	Operating system installed *	✗
Processor generation	4th gen Intel® Core™ i5	Processor special features	
Processor *	i5-4200M	Intel Wireless Display (WiDi) Technology	✓
Processor number of cores	2	Intel My WiFi Technology	✗
Processor threads	4	Intel Smart Connect Technology	✗
Processor boost frequency	3.1 GHz	Intel Anti-Theft Technology	✓
Processor frequency *	2.5 GHz	Intel® Rapid Start Technology	✗
System bus data transfer rate	5 GT/s	Intel® Smart Response Technology	✗
Processor cache	3 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® Small Business Advantage (Intel® SBA)	✗
Processor operating modes	64-bit	Intel Matrix Storage Technology	✗
Processor series	Intel Core i5-4200 Mobile series	Intel HD Audio Technology	✗
Processor codename	Haswell	Intel Active Management Technology	✗
Bus type	DMI	Enhanced Intel SpeedStep Technology	✓
FSB Parity	✗	Intel Clear Video HD 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 Clear Video Technology	✗
Memory		Intel® InTru™ 3D Technology	✓
Internal memory *	6 GB	Intel® Insider™	✓
Internal memory type	DDR3-SDRAM	Intel® Quick Sync Video Technology	✓
Memory clock speed	1600 MHz	Intel Flex Memory Access	✗
Memory form factor	SO-DIMM	Intel® Smart Cache	✓
Memory layout (slots x size)	1 x 2 + 1 x 4 GB	Intel AES New Instructions	✓
Memory slots	2x SO-DIMM	Intel Trusted Execution Technology	✗
Maximum internal memory *	16 GB	Intel Enhanced Halt State	✗
Storage		Intel VT-x with Extended Page Tables (EPT)	✓
Total storage capacity *	1 TB	Intel Demand Based Switching	✗
Storage media *	HDD	Intel® Secure Key	✓
Number of hard drives installed	1	Intel TSX-NI	✗
Hard drive capacity	1 TB	Intel Clear Video Technology for MID	✗
Hard drive interface	SATA	Intel 64	✓
Hard drive rotational speed	5400 RPM	Execute Disable Bit	✓
Hard drive size	2.5"	Idle States	✓
Optical drive type *	DVD-RW	Thermal Monitoring Technologies	✓
Card reader integrated	✓	Processor package size	37.5 x 37.5 x 4.7 mm
Compatible memory cards	MMC, SD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Graphics		Processor code	SR1HA
Discrete graphics card model *	AMD Radeon R7 M265	CPU configuration (max)	1
Discrete graphics card memory	2 GB	Embedded options available	✗
Discrete graphics memory type	GDDR3	Intel Virtualization Technology for Directed I/O (VT-d)	✗
On-board graphics card *	✓	Intel Identity Protection Technology version	1.00
Discrete graphics card *	✓	Intel Secure Key Technology version	1.00
On-board graphics card family	Intel® HD Graphics	Intel TSX-NI version	0.00
On-board graphics card model *	Intel® HD Graphics 4600	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	400 MHz	Intel Dual Display Capable Technology	✗
On-board graphics card dynamic frequency (max)	1150 MHz	Intel FDI Technology	✗
Maximum on-board graphics card memory	1.74 GB	Intel Rapid Storage Technology	✗
On-board graphics card DirectX version	11.1	Intel Fast Memory Access	✗
On-board graphics card ID	0x416	Processor ARK ID	76348
Number of discrete graphics cards supported	1	Conflict-Free processor	✓
Number of discrete graphics cards installed	1	Battery	
Audio		Battery technology	Lithium-Ion (Li-Ion)
Audio system	Dolby Advanced Audio	Number of battery cells	6
Number of built-in speakers	2	Battery life (max)	5 h
Built-in microphone	✓	Energy Management	
Camera		DC-in jack	✓
Front camera	✓	Security	
Front camera resolution	1280 x 720 pixels	Cable lock slot	✓
Network		Cable lock slot type	Kensington
Wi-Fi	✓	Weight & Dimensions	
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	377 mm
Ethernet LAN connection	✓	Depth	250 mm
Ethernet LAN data rates	10,100 Mbit/s	Height	34 mm
Bluetooth	✓	Weight *	2.6 kg
Bluetooth version	4.0	Packaging Content	
Ports & interfaces		AC adapter bundled *	✓
USB 2.0 ports quantity *	1		

Ports & interfaces		Packaging Content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Manual	✓
Ethernet LAN (RJ-45) ports quantity	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	Intel Virtualization Technology	VT-x
S/PDIF out port	✗		
Microphone in	✗		

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