



Lenovo IdeaPad G510 Intel® Core™ i3 i3-4000M Laptop 39,6 cm (15.6") 4 GB DDR3-SDRAM 500 GB HDD Windows 8.1 Black

Brand : Lenovo

Product family: IdeaPad

Product code: 59409389

Product name : G510

Intel Core i3-4000M (2.4 GHz), 4GB DDR3 RAM, 500GB HDD, 15.6" HD LED (1366x768), Intel HD Graphics 4600, Fast Ethernet, WLAN 802.11 b/g/n, Bluetooth 4.0, Windows 8.1 64-bit
Lenovo IdeaPad G510. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i3, Processor model: i3-4000M, Processor frequency: 2,4 GHz. Display diagonal: 39,6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD-RW. On-board graphics card model: Intel® HD Graphics 4600. Operating system installed: Windows 8.1. Product colour: Black



Design		Keyboard	
Product type *	Laptop	Full-size keyboard	✓
Product colour *	Black	Windows keys	✓
Form factor *	Clamshell		
Display		Software	
Display diagonal *	39,6 cm (15.6")	Operating system architecture	64-bit
Display resolution *	1366 x 768 pixels	Operating system installed *	Windows 8.1
Touchscreen *	✗		
LED backlight	✓	Processor special features	
Native aspect ratio	16:9	Intel® Wireless Display (Intel® WiDi)	✓
Display brightness	200 cd/m²	Intel® My WiFi Technology (Intel® MWT)	✗
Processor		Intel Smart Connect Technology	✗
Processor manufacturer *	Intel	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor family *	Intel® Core™ i3	Intel® Rapid Start Technology	✗
Processor generation	4th gen Intel® Core™ i3	Intel® Smart Response Technology	✗
Processor model *	i3-4000M	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores	2	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	4	Intel® Turbo Boost Technology	✗
Processor frequency *	2,4 GHz	Intel® Matrix Storage Technology (Intel® MST)	✗
System bus rate	5 GT/s	Intel® High Definition Audio (Intel® HD Audio)	✗
Processor cache	3 MB	Intel® Active Management Technology (Intel® AMT)	✗
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Processor socket	PGA946	Intel® Clear Video HD Technology (Intel® CVT HD)	✗
Processor lithography	22 nm	Intel Clear Video Technology	✗
Processor operating modes	64-bit	Intel® InTru™ 3D Technology	✓
Processor series	Intel® Core™ i3-4000 Mobile Series	Intel® Insider™	✓
Processor codename	Haswell	Intel® Quick Sync Video Technology	✓
Bus type	DMI	Intel Flex Memory Access	✗
FSB Parity	✗	Intel® Smart Cache	✓
Stepping	C0	Intel® AES New Instructions (Intel® AES-NI)	✗
Thermal Design Power (TDP)	37 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	2.0		
PCI Express configurations	1x16, 2x8, 1x8+2x4		
ECC supported by processor	✗		

Memory		Processor special features	
Internal memory *	4 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 form factor	SO-DIMM	Intel Demand Based Switching	✗
Memory layout (slots x size)	1 x 4 GB	Intel® Secure Key	✓
Memory slots	2x SO-DIMM	Intel TSX-NI	✗
Maximum internal memory *	16 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Storage		Intel 64	✓
Total storage capacity *	500 GB	Execute Disable Bit	✓
Storage media *	HDD	Idle States	✓
Number of HDDs installed	1	Thermal Monitoring Technologies	✓
HDD capacity	500 GB	Processor package size	37.5 x 37.5 x 4.7 mm
HDD interface	SATA	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD size	2.5"	Processor code	SR1HC
Optical drive type *	DVD-RW	CPU configuration (max)	1
Card reader integrated	✓	Embedded options available	✗
Compatible memory cards	MMC, SD	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Graphics		Intel Identity Protection Technology version	1,00
On-board 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)	1100 MHz	Intel FDI Technology	✗
Maximum on-board graphics card memory	2 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	75104
Audio		Conflict-Free processor	✓
Audio system	HD	Battery	
Number of built-in speakers	2	Battery technology	Lithium-Ion (Li-Ion)
Built-in microphone	✓	Number of battery cells	6
Camera		Battery life (max)	3 h
Front camera	✓	Power	
Network		DC-in jack	✓
Wi-Fi	✓	Security	
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Cable lock slot	✗
Ethernet LAN	✓	Weight & dimensions	
Ethernet LAN data rates	10,100 Mbit/s	Width	377 mm
Bluetooth	✓	Depth	250 mm
Bluetooth version	4.0	Height	34 mm
Ports & interfaces		Weight *	2,6 kg
USB 2.0 ports quantity *	1	Packaging content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	AC adapter included *	✓
Ethernet LAN (RJ-45) ports	1	Manual	✓
HDMI ports quantity *	1	Quick start guide	✓
DVI port	✗	Power cord included	✓
VGA (D-Sub) ports quantity	1	Other features	
S/PDIF out port	✗	Maximum internal memory (64-bit)	16 GB
Microphone in	✗		
Combo headphone/mic port	✓		
Docking connector	✗		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		

Ports & interfaces	
SmartCard slot	✗
Performance	
Motherboard chipset	Intel® HM86
Keyboard	
Pointing device	Touchpad
Numeric keypad *	✓

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