



## Lenovo IdeaPad G710 Intel® Core™ i7 i7-4712MQ Laptop 43,9 cm (17.3") HD+ 8 GB DDR3-SDRAM 500 GB Hybrid-HDD NVIDIA® GeForce® 820M Windows 8.1 Black

**Brand :** Lenovo

**Product family:** IdeaPad

**Article code:** 59423529

**Product name :** G710

Lenovo IdeaPad G710. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4712MQ, Processor frequency: 2,3 GHz. Display diagonal: 43,9 cm (17.3"), HD type: HD+, Display resolution: 1600 x 900 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: Hybrid-HDD, Optical drive type: DVD±RW. Operating system installed: Windows 8.1. Product color: Black



Design		Keyboard	
Product type *	Laptop	Numeric keypad *	✓
Product color *	Black	Spill-resistant keyboard	✓
Form factor *	Clamshell	Full-size keyboard	✓
Market positioning	Business	Windows keys	✓
Display		Software	
Display diagonal *	43,9 cm (17.3")	Operating system architecture	64-bit
Display resolution *	1600 x 900 pixels	Operating system installed *	Windows 8.1
Touchscreen *	✗	Processor special features	
HD type	HD+	Intel® Wireless Display (Intel® WiDi)	✓
LED backlight	✓	Intel® My WiFi Technology (Intel® MWT)	✗
Native aspect ratio	16:9	Intel Smart Connect Technology	✗
Display brightness	220 cd/m²	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor		Intel® Rapid Start Technology	✗
Processor manufacturer *	Intel	Intel® Smart Response Technology	✗
Processor family *	Intel® Core™ i7	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor generation	4th gen Intel® Core™ i7	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	i7-4712MQ	Intel® Turbo Boost Technology	2.0
Processor cores	4	Intel® Small Business Advantage (Intel® SBA)	✗
Processor threads	8	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor boost frequency	3,3 GHz	Intel® High Definition Audio (Intel® HD Audio)	✗
Processor frequency *	2,3 GHz	Intel® Active Management Technology (Intel® AMT)	✗
System bus rate	5 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor cache	6 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache type	Smart Cache	Intel Clear Video Technology	✗
Processor socket	PGA946		
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-4700 Mobile series		
Processor codename	Haswell		
Bus type	DMI		
FSB Parity	✗		
Stepping	C0		
Thermal Design Power (TDP)	37 W		

Processor		Processor special features	
Tjunction	100 °C	Intel® InTru™ 3D Technology	✓
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 form factor	SO-DIMM	Intel Demand Based Switching	✗
Memory layout (slots x size)	2 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 *	Hybrid-HDD	Idle States	✓
HDD interface	SATA III	Thermal Monitoring Technologies	✓
HDD speed	5400 RPM	Processor package size	37.5 x 32 x 1.6 mm
Hybrid-HDD cache type	SSD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Hybrid-HDD capacity	500 GB	Processor code	SR1PS
Hybrid-HDD cache memory	8 GB	CPU configuration (max)	1
HDD size	2.5"	Embedded options available	✗
Optical drive type *	DVD±RW	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Card reader integrated	✓	Intel Identity Protection Technology version	1,00
Compatible memory cards	MMC, SD	Intel Secure Key Technology version	1,00
Graphics		Intel TSX-NI version	0,00
Discrete graphics card model *	NVIDIA® GeForce® 820M	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory	2 GB	Intel Dual Display Capable Technology	✗
On-board graphics card *	✓	Intel FDI Technology	✓
Discrete graphics card *	✓	Intel Rapid Storage Technology	✗
On-board graphics card family	Intel® HD Graphics	Intel Fast Memory Access	✗
On-board graphics card model *	Intel® HD Graphics 4600	Processor ARK ID	78933
On-board graphics card base frequency	400 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Battery	
Maximum on-board graphics card memory	1,74 GB	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card DirectX version	11.1	Number of battery cells	6
On-board graphics card ID	0x416	Battery capacity	4400 mAh
Audio		Battery capacity *	48 Wh
Audio system	Dolby Advanced	Battery life (max)	5 h
Number of built-in speakers	2	Power	
Built-in microphone	✓	AC adapter power	65 W
Camera		AC adapter frequency	50 - 60 Hz
Front camera	✓	AC adapter input voltage	100 - 240 V
Front camera resolution (numeric)	1 MP	DC-in jack	✓
Front camera resolution	1280 x 720 pixels	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	418 mm
Ethernet LAN data rates	10,100 Mbit/s		
Bluetooth	✓		
Bluetooth version	4.0		

Ports & interfaces		Weight & dimensions	
USB 2.0 ports quantity *	2	Depth	278 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Height	36,8 mm
Ethernet LAN (RJ-45) ports	1	Weight *	2,9 kg
HDMI ports quantity *	1	Packaging content	
DVI port	✗	AC adapter included *	✓
VGA (D-Sub) ports quantity	1	Manual	✓
S/PDIF out port	✗	Power cord included	✓
Microphone in	✗	Other features	
Combo headphone/mic port	✓	Maximum internal memory (64-bit)	16 GB
Docking connector	✗	Intel® Virtualization Technology (Intel® VT)	VT-x
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
Performance			
Motherboard chipset	Intel® HM86		
Keyboard			
Pointing device	Touchpad		

## Catalog Object Cloud



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