



## Lenovo IdeaPad G710 Laptop 43.9 cm (17.3") HD+ Intel® Core™ i7 i7-4712MQ 8 GB DDR3-SDRAM 500 GB Hybrid-HDD NVIDIA® GeForce® 820M Windows 8.1 Black

**Brand :** Lenovo

**Product family:** IdeaPad

**Product code:** 59423529

**Product name :** G710



17.3" (1600 x 900, LED), Intel Core i7-4712MQ, 8GB (DDR3), 500GB (Hybrid-HDD), NVIDIA GeForce 820M (2GB), Windows 8.1 (64 bit), 802.11 b/g/n, Bluetooth 4.0, DVD±RW, 2 x USB 2.0, 1 x USB 3.0, 1 x VGA, 1 x HDMI, 1 x LAN, 2.9 kg

Lenovo IdeaPad G710. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor: 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: DVD±RW. Operating system installed: Windows 8.1. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	SmartCard slot	✗
Product colour *	Black	<b>Keyboard</b>	
Form factor *	Clamshell	Pointing device	Touchpad
Market positioning	Business	Numeric keypad *	✓
<b>Display</b>		Spill-resistant keyboard	✓
Display diagonal *	43.9 cm (17.3")	Full-size keyboard	✓
Display resolution *	1600 x 900 pixels	Windows keys	✓
Touchscreen *	✗	<b>Software</b>	
HD type	HD+	Operating system architecture	64-bit
LED backlight	✓	Operating system installed *	Windows 8.1
Native aspect ratio	16:9	<b>Processor special features</b>	
Display brightness	220 cd/m <sup>2</sup>	Intel Wireless Display (WiDi) Technology	✓
<b>Processor</b>		Intel My WiFi Technology	✗
Processor manufacturer *	Intel	Intel Smart Connect Technology	✗
Processor generation	4th gen Intel® Core™ i7	Intel Anti-Theft Technology	✓
Processor family *	Intel® Core™ i7	Intel® Rapid Start Technology	✗
Processor *	i7-4712MQ	Intel® Smart Response Technology	✗
Processor frequency *	2.3 GHz	Intel Identity Protection Technology	✓
Processor boost frequency	3.3 GHz	Intel Hyper-Threading Technology	✓
Processor threads	8	Intel Turbo Boost Technology	2.0
System bus data transfer rate	5 GT/s	Intel® Small Business Advantage (Intel® SBA)	✗
Processor number of cores	4	Intel Matrix Storage Technology	✗
Processor cache	6 MB	Intel HD Audio Technology	✗
Processor cache type	Smart Cache	Intel Active Management Technology	✗
Processor socket	PGA946	Enhanced Intel SpeedStep Technology	✓
Processor lithography	22 nm	Intel Clear Video HD Technology	✓
Processor operating modes	64-bit	Intel Clear Video Technology	✗
Processor series	Intel Core i7-4700 Mobile series	Intel® InTru™ 3D Technology	✓
Processor codename	Haswell	Intel® Insider™	✓
Bus type	DMI	Intel® Quick Sync Video Technology	✓
FSB Parity	✗		
Stepping	C0		
Chipset	Intel® HM86		
Thermal Design Power (TDP)	37 W		

Processor		Processor special features	
Tjunction	100 °C	Intel Flex Memory Access	✗
Maximum number of PCI Express lanes	16	Intel® Smart Cache	✓
PCI Express slots version	3.0	Intel AES New Instructions	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Trusted Execution Technology	✗
ECC supported by processor	✗	Intel Enhanced Halt State	✓
<b>Memory</b>		Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory *	8 GB	Intel Demand Based Switching	✗
Internal memory type	DDR3-SDRAM	Intel® Secure Key	✓
Memory clock speed	1600 MHz	Intel TSX-NI	✗
Memory form factor	SO-DIMM	Intel Clear Video Technology for MID	✗
Memory layout (slots x size)	2 x 4 GB	Intel 64	✓
Memory slots	2x SO-DIMM	Execute Disable Bit	✓
Memory, maximum *	16 GB	Idle States	✓
<b>Storage</b>		Thermal Monitoring Technologies	✓
Total storage capacity *	500 GB	Processor package size	37.5 x 32 x 1.6 mm
Storage media *	Hybrid-HDD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Hard drive interface	SATA III	Processor code	SR1PS
Hard drive rotational speed	5400 RPM	CPU configuration (max)	1
Hybrid-HDD cache type	SSD	Embedded options available	✗
Hybrid-HDD capacity	500 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Hybrid-HDD cache memory	8 GB	Intel Identity Protection Technology version	1.00
Hard drive size	2.5"	Intel Secure Key Technology version	1.00
Optical drive *	DVD±RW	Intel TSX-NI version	0.00
Card reader integrated	✓	Intel Virtualization Technology (VT-x)	✓
Compatible memory cards	MMC, SD	Intel Dual Display Capable Technology	✗
<b>Graphics</b>		Intel FDI Technology	✓
Discrete graphics card model *	NVIDIA® GeForce® 820M	Intel Rapid Storage Technology	✗
On-board graphics card *	✓	Intel Fast Memory Access	✗
Discrete graphics card *	✓	Processor ARK ID	78933
On-board graphics card family	Intel® HD Graphics	Conflict-Free processor	✓
On-board graphics card model *	Intel® HD Graphics 4600	<b>Battery</b>	
On-board graphics card base frequency	400 MHz	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card dynamic frequency (max)	1150 MHz	Number of battery cells	6
Maximum on-board graphics card memory	1.74 GB	Battery capacity	4400 mAh
On-board graphics card DirectX version	11.1	Battery capacity *	48 Wh
On-board graphics card ID	0x416	Battery life (max)	5 h
Discrete graphics card memory	2 GB	<b>Power</b>	
<b>Audio</b>		AC adapter power	65 W
Audio system	Dolby Advanced	AC adapter frequency	50 - 60 Hz
Number of built-in speakers	2	AC adapter input voltage	100 - 240 V
Built-in microphone	✓	<b>Security</b>	
<b>Camera</b>		Cable lock slot	✓
Front camera	✓	Cable lock slot type	Kensington
Front camera resolution (numeric)	1 MP	<b>Weight &amp; dimensions</b>	
Front camera resolution	1280 x 720 pixels	Width	418 mm
<b>Network</b>		Depth	278 mm
Wi-Fi	✓	Height	36.8 mm
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Weight *	2.9 kg
Ethernet LAN connection	✓	<b>Packaging content</b>	
Ethernet LAN data rates	10,100 Mbit/s	Manual	✓
Bluetooth	✓	Power cord included	✓
Bluetooth version	4.0	<b>Other features</b>	
		AC adapter included	✓
		Maximum internal memory (64-bit)	16 GB

Ports & interfaces		Other features	
USB 2.0 ports quantity *	2	Intel Virtualization Technology	VT-x
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1		
Ethernet LAN (RJ-45) ports	1		
HDMI ports quantity *	1		
DVI port	✘		
VGA (D-Sub) ports quantity	1		
S/PDIF out port	✘		
Microphone in	✘		
Combo headphone/mic port	✔		
Docking connector	✘		
Charging port type	DC-in jack		
ExpressCard slot	✘		
CardBus PCMCIA slot type	✘		

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