



MSI Classic CX61 2PC-1214XES Intel® Core™ i7 i7-4712MQ Laptop
39,6 cm (15.6") HD 8 GB DDR3L-SDRAM 1 TB HDD NVIDIA®
GeForce® 820M Wi-Fi 4 (802.11n) FreeDOS Black, Brown

Brand : MSI

Product family: Classic

Product code:
9S7-16GD11-1214

Product name : CX61
2PC-1214XES

Intel Core i7-4712MQ (6M Cache, 2.30 GHz), 15.6" HD (1366 x 768) LED, 8GB DDR3L, 1000GB SATA HDD, DVD Super Multi, Intel HD Graphics 4600 + NVIDIA GeForce 820M 2GB DDR3, Gigabit Ethernet, WLAN 802.11 b/g/n, Bluetooth 4.0, HD Webcam, Free DOS
MSI Classic CX61 2PC-1214XES. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4712MQ, Processor frequency: 2,3 GHz. Display diagonal: 39,6 cm (15.6"), HD type: HD, Display resolution: 1366 x 768 pixels. Internal memory: 8 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 1 TB, Storage media: HDD, Optical drive type: DVD Super Multi. Operating system installed: FreeDOS. Product colour: Black, Brown



Design		Ports & interfaces	
Product type *	Laptop	Headphone outputs	1
Product colour *	Black, Brown	S/PDIF out port	×
Form factor *	Clamshell	Microphone in	✓
Display		Docking connector	×
Display diagonal *	39,6 cm (15.6")	ExpressCard slot	×
Display resolution *	1366 x 768 pixels	CardBus PCMCIA slot type	×
Touchscreen *	×	SmartCard slot	×
HD type	HD	Performance	
LED backlight	✓	Motherboard chipset	Intel® HM86
Native aspect ratio	16:9	Keyboard	
Display surface	Matt	Pointing device	Touchpad
Processor		Numeric keypad *	✓
Processor manufacturer *	Intel	Keyboard number of keys	102
Processor family *	Intel® Core™ i7	Software	
Processor generation	4th gen Intel® Core™ i7	Operating system installed *	FreeDOS
Processor model *	i7-4712MQ	Processor special features	
Processor cores	4	Intel® Wireless Display (Intel® WiDi)	✓
Processor threads	8	Intel® My WiFi Technology (Intel® MWT)	×
Processor boost frequency	3,3 GHz	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor frequency *	2,3 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	5 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache	6 MB	Intel® Turbo Boost Technology	2.0
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 i7-4700 Mobile series		
Processor codename	Haswell		
Bus type	DMI		
FSB Parity	×		
Stepping	C0		
Thermal Design Power (TDP)	37 W		
Tjunction	100 °C		

Processor		Processor special features	
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	DDR3L-SDRAM	Intel Enhanced Halt State	✓
Memory layout (slots x size)	1 x 8 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Memory slots	2x SO-DIMM	Intel Demand Based Switching	✗
Storage		Intel® Secure Key	✓
Total storage capacity *	1 TB	Intel TSX-NI	✗
Storage media *	HDD	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Number of hard drives installed	1	Intel 64	✓
Hard drive capacity	1 TB	Execute Disable Bit	✓
Hard drive interface	SATA	Idle States	✓
Hard drive speed	5400 RPM	Thermal Monitoring Technologies	✓
Optical drive type *	DVD Super Multi	Processor package size	37.5 x 32 x 1.6 mm
Card reader integrated	✓	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Compatible memory cards	SD, SDHC, SDXC	Processor code	SR1PS
Graphics		CPU configuration (max)	1
Discrete graphics card model *	NVIDIA® GeForce® 820M	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	78933
On-board graphics card ID	0x416	Conflict-Free processor	✓
Audio		Battery	
Audio system	SRS PC Sound	Battery technology	Lithium-Ion (Li-Ion)
Number of built-in speakers	2	Number of battery cells	6
Built-in microphone	✓	Power	
Camera		AC adapter power	65 W
Front camera	✓	AC adapter output voltage	19 V
Front camera resolution	1280 x 720 pixels	DC-in jack	✓
Video capturing speed	30 fps	Security	
Network		Cable lock slot	✓
Wi-Fi	✓	Cable lock slot type	Kensington
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Weight & dimensions	
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	383 mm
Ethernet LAN	✓	Depth	249,5 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height (front)	3,23 cm
Bluetooth	✓	Height (rear)	3,76 cm
Bluetooth version	4.0	Weight *	2,4 kg
Ports & interfaces			
USB 2.0 ports quantity *	1		
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2		

Ports & interfaces		Packaging content	
Ethernet LAN (RJ-45) ports	1	AC adapter included *	✓
HDMI ports quantity *	1	Other features	
HDMI version	1.4	LightScribe	✗
DVI port	✗	3D	✗
VGA (D-Sub) ports quantity	1		



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