



MSI Classic CX61 Intel® Core™ i5 i5-3210M Laptop 39,6 cm (15.6") HD 8 GB DDR3-SDRAM 500 GB HDD NVIDIA® GeForce® GT 645M Wi-Fi 4 (802.11n) Windows 8 Black

Brand : MSI

Product family: Classic

Product code: CX61
0NF-299NL

Product name : CX61

Intel Core i5-3210M (2.50 GHz, 3 MB Smart-Cache), 8GB DDR3, 500GB SATA 5400rpm, NVIDIA GeForce GT 645M 2GB DDR3, 15.6" HD LED 1366 x 768 16:9, DVD SuperMulti, Gigabit LAN, WLAN, Bluetooth 4.0, SD/SDHC/SDXC/MMC/MS, Windows 8

MSI Classic CX61. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-3210M, Processor frequency: 2,5 GHz. Display diagonal: 39,6 cm (15.6"), HD type: HD, Display resolution: 1366 x 768 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi. Operating system installed: Windows 8. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	Microphone in	✓
Product colour *	Black	ExpressCard slot	✗
Form factor *	Clamshell	CardBus PCMCIA slot type	✗
Display		SmartCard slot	✗
Display diagonal *	39,6 cm (15.6")	Performance	
Display resolution *	1366 x 768 pixels	Motherboard chipset	Intel HM76 Express
Touchscreen *	✗	Keyboard	
HD type	HD	Pointing device	Touchpad
LED backlight	✓	Numeric keypad *	✓
Native aspect ratio	16:9	Keyboard number of keys	102
Display surface	Gloss	Software	
Processor		Operating system architecture	64-bit
Processor manufacturer *	Intel	Operating system installed *	Windows 8
Processor family *	Intel® Core™ i5	Processor special features	
Processor generation	3rd gen Intel® Core™ i5	Intel® Wireless Display (Intel® WiDi)	✓
Processor model *	i5-3210M	Intel® My WiFi Technology (Intel® MWT)	✓
Processor cores	2	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor threads	4	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	3,1 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor frequency *	2,5 GHz	Intel® Turbo Boost Technology	2.0
System bus rate	5 GT/s	Intel® Small Business Advantage (Intel® SBA)	✗
Processor cache	3 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	BGA 1023	Intel Clear Video Technology	✗
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-3200 Mobile series		
Processor codename	Ivy Bridge		
Bus type	DMI		
FSB Parity	✗		
Stepping	L1		
Thermal Design Power (TDP)	35 W		

Processor		Processor special features	
Tjunction	105 °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	✓
CPU multiplier (bus/core ratio)	25	Intel® Smart Cache	✓
ECC supported by processor	✗	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory		Intel Trusted Execution Technology	✗
Internal memory *	8 GB	Intel Enhanced Halt State	✓
Internal memory type	DDR3-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓
Storage		Intel Demand Based Switching	✗
Total storage capacity *	500 GB	Intel® Secure Key	✓
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	500 GB	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	31.0 x 24.0 (BGA1023)
Card reader integrated	✓	Supported instruction sets	AVX
Compatible memory cards	Memory Stick (MS), MMC, SD, SDHC, SDXC	Processor code	SR0N0
Graphics		CPU configuration (max)	1
Discrete graphics card model *	NVIDIA® GeForce® GT 645M	Embedded options available	✗
Discrete graphics card memory	2 GB	Graphics & IMC lithography	22 nm
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 Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 4000	Intel Dual Display Capable Technology	✓
On-board graphics card base frequency	650 MHz	Intel FDI Technology	✓
On-board graphics card dynamic frequency (max)	1100 MHz	Intel Rapid Storage Technology	✗
On-board graphics card ID	0x166	Intel Fast Memory Access	✓
Audio		Processor ARK ID	65708
Audio system	SRS	Conflict-Free processor	✓
Built-in speaker(s)	✓	Integrated 4G WiMAX	✓
Number of built-in speakers	2	Battery	
Built-in microphone	✓	Battery technology	Lithium-Ion (Li-Ion)
Camera		Number of battery cells	6
Video capturing speed	30 fps	Power	
Network		DC-in jack	✓
Wi-Fi	✓	Security	
Networking features	Gigabit LAN, WLAN	Cable lock slot	✗
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	250 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height	37,6 mm
Bluetooth	✓	Weight *	2,4 kg
Bluetooth version	4.0	Packaging content	
Cabling technology	10/100/1000Base-T(X)	AC adapter included *	✓
Ports & interfaces		Manual	✓
USB 2.0 ports quantity *	1		
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2		
Ethernet LAN (RJ-45) ports	1		
HDMI ports quantity *	1		

Ports & interfaces		Other features	
HDMI version	1.4	LightScribe	✗
DVI port	✗	Graphics card family	Intel, NVIDIA
VGA (D-Sub) ports quantity	1	Ethernet interface type	Gigabit Ethernet
Headphone outputs	1	Indication light	✓
S/PDIF out port	✗		

Catalog Object Cloud



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