



**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



Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.