



MSI Gaming GE60 0ND-661XFR Intel® Core™ i5 i5-3210M Laptop 39,6 cm (15.6") Full HD 4 GB DDR3-SDRAM 750 GB HDD NVIDIA® GeForce® GTX 660M FreeDOS Black

Brand : MSI

Product family: Gaming

Article code: 957-16GA11-661

Product name : GE60
0ND-661XFR



MSI Gaming GE60 0ND-661XFR. 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: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 750 GB, Storage media: HDD, Optical drive type: DVD Super Multi. Operating system installed: FreeDOS. Product color: Black

Design		Ports & interfaces	
Product type *	Laptop	Headphone outputs	1
Product colour *	Black	S/PDIF out port	✗
Form factor *	Clamshell	Microphone in	✓
Market positioning	Gaming	Docking connector	✗
Display		Charging port type	DC-in jack
Display diagonal *	39.6 cm (15.6")	ExpressCard slot	✗
Display resolution *	1920 x 1080 pixels	CardBus PCMCIA slot type	✗
Touchscreen *	✗	SmartCard slot	✗
HD type	Full HD	Performance	
LED backlight	✓	Motherboard chipset	Intel HM76 Express
Native aspect ratio	16:9	Keyboard	
Processor		Pointing device	Touchpad
Processor manufacturer *	Intel	Numeric keypad *	✓
Processor family *	Intel® Core™ i5	Software	
Processor generation	3rd gen Intel® Core™ i5	Operating system installed *	FreeDOS
Processor model *	i5-3210M	Processor special features	
Processor cores	2	Intel® Wireless Display (Intel® WiDi)	✓
Processor threads	4	Intel® My WiFi Technology (Intel® MWT)	✓
Processor boost frequency	3.1 GHz	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor frequency *	2.5 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	5 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache	3 MB	Intel® Turbo Boost Technology	2.0
Processor cache type	Smart Cache	Intel® Small Business Advantage (Intel® SBA)	✗
Processor socket	BGA 1023	Enhanced Intel SpeedStep 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® Clear Video HD Technology (Intel® CVT HD)	✓
Maximum number of PCI Express lanes	16	Intel Clear Video Technology	✗
PCI Express slots version	3.0	Intel® InTru™ 3D Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Insider™	✓
CPU multiplier (bus/core ratio)	25	Intel® Quick Sync Video Technology	✓
ECC supported by processor	✗	Intel Flex Memory Access	✓
Memory		Intel® Smart Cache	✓
Internal memory *	4 GB	Intel® AES New Instructions (Intel® AES-NI)	✓
Internal memory type	DDR3-SDRAM	Intel Trusted Execution Technology	✗
Memory clock speed	1600 MHz	Intel Enhanced Halt State	✓
Memory layout (slots x size)	1 x 4 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Memory slots	2x SO-DIMM	Intel Demand Based Switching	✗
Maximum internal memory *	16 GB	Intel® Secure Key	✓
Storage		Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Total storage capacity *	750 GB	Intel 64	✓
Storage media *	HDD	Execute Disable Bit	✓
Number of HDDs installed	1	Idle States	✓
HDD capacity	750 GB	Thermal Monitoring Technologies	✓
HDD interface	SATA	Processor package size	31.0 x 24.0 (BGA1023)
HDD speed	7200 RPM	Supported instruction sets	AVX
Optical drive type *	DVD Super Multi	Processor code	SR0N0
Card reader integrated	✓	CPU configuration (max)	1
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC, SDXC, xD	Embedded options available	✗
Graphics		Graphics & IMC lithography	22 nm
Discrete graphics card model *	NVIDIA® GeForce® GTX 660M	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card memory	2 GB	Intel Identity Protection Technology version	1.00
Discrete graphics memory type	GDDR5	Intel Secure Key Technology version	1.00
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✓	Intel Dual Display Capable Technology	✓
On-board graphics card family	Intel® HD Graphics	Intel FDI Technology	✓
On-board graphics card model *	Intel® HD Graphics 4000	Intel Rapid Storage Technology	✗
On-board graphics card base frequency	650 MHz	Intel Fast Memory Access	✓
On-board graphics card dynamic frequency (max)	1100 MHz	Processor ARK ID	65708
On-board graphics card ID	0x166	Conflict-Free processor	✓
Audio		Integrated 4G WiMAX	✓
Audio system	THX TruStudio Pro	Battery	
Number of built-in speakers	4	Battery technology	Lithium-Ion (Li-Ion)
Speaker power	2 W	Number of battery cells	6
Built-in microphone	✓	Security	
Network		Cable lock slot	✗
Wi-Fi	✓	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
Cabling technology	10/100/1000Base-T(X)	Packaging content	
Ports & interfaces		AC adapter included *	✓
USB 2.0 ports quantity *	2		
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	
DVI port	×	LightScribe	×
VGA (D-Sub) ports quantity	1		

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