



**MSI Gaming GE60 2OE-208RU laptop Intel® Core™ i5 i5-4200M
39.6 cm (15.6") Full HD 12 GB DDR3-SDRAM 878 GB HDD+SSD
NVIDIA® GeForce® GTX 765M Wi-Fi 4 (802.11n) Windows 8 Black**

Brand : MSI

Product family: Gaming

Product code: GE60
2OE-208RU

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Intel Core i5-4200M (3M Cache, 2.50 GHz), 15.6" Full HD (1920x1080) LED, 12GB DDR3, 2 x 64GB SSD + 750GB SATA HDD, Intel HD Graphics 4600 + NVIDIA GeForce GTX 765M 2GB GDDR5, DVD Super Multi, Gigabit Ethernet, WLAN 802.11 b/g/n, Bluetooth 4.0, HD WebCam, Windows 8 64-bit
MSI Gaming GE60 2OE-208RU. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor: i5-4200M, Processor frequency: 2.5 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 12 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 878 GB, Storage media: HDD+SSD, Optical drive type: DVD Super Multi. Operating system installed: Windows 8. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Product colour *	Black	Ethernet LAN (RJ-45) ports quantity	1
Form factor *	Clamshell	HDMI ports quantity *	1
Market positioning	Gaming	DVI port	✗
Display		VGA (D-Sub) ports quantity	1
Display diagonal *	39.6 cm (15.6")	Headphone outputs	1
Display resolution *	1920 x 1080 pixels	S/PDIF out port	✗
Touch screen *	✗	Microphone in	✓
HD type	Full HD	Docking connector	✗
LED backlight	✓	ExpressCard slot	✗
Native aspect ratio	16:9	CardBus PCMCIA slot type	✗
Display surface	Matt	SmartCard slot	✗
Processor		Performance	
Processor manufacturer *	Intel	Motherboard chipset	Intel® HM87
Processor family *	Intel® Core™ i5	Keyboard	
Processor generation	4th gen Intel® Core™ i5	Pointing device	Touchpad
Processor *	i5-4200M	Numeric keypad *	✓
Processor number of cores	2	Keyboard backlit	✓
Processor threads	4	Keyboard layout	QWERTY
Processor boost frequency	3.1 GHz	Software	
Processor frequency *	2.5 GHz	Operating system architecture	64-bit
System bus data transfer rate	5 GT/s	Operating system installed *	Windows 8
Processor cache	3 MB	Processor special features	
Processor cache type	Smart Cache	Intel Wireless Display (WiDi) Technology	✓
Processor socket	PGA946	Intel My WiFi Technology	✗
Processor lithography	22 nm	Intel Anti-Theft Technology	✓
Processor operating modes	64-bit	Intel Identity Protection Technology	✓
Processor series	Intel Core i5-4200 Mobile series	Intel Hyper-Threading Technology	✓
Processor codename	Haswell		
Bus type	DMI		
FSB Parity	✗		
Stepping	C0		

Processor		Processor special features	
Thermal Design Power (TDP)	37 W	Intel Turbo Boost Technology	2.0
Tjunction	100 °C	Enhanced Intel SpeedStep Technology	✓
Maximum number of PCI Express lanes	16	Intel Clear Video HD Technology	✓
PCI Express slots version	3.0	Intel Clear Video Technology	✗
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® InTru™ 3D Technology	✓
ECC supported by processor	✗	Intel® Insider™	✓
Memory		Intel® Quick Sync Video Technology	✓
Internal memory *	12 GB	Intel Flex Memory Access	✗
Internal memory type	DDR3-SDRAM	Intel® Smart Cache	✓
Memory clock speed	1600 MHz	Intel AES New Instructions	✓
Memory form factor	SO-DIMM	Intel Trusted Execution Technology	✗
Memory slots	2x SO-DIMM	Intel Enhanced Halt State	✗
Maximum internal memory *	16 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Storage		Intel Demand Based Switching	✗
Total storage capacity *	878 GB	Intel® Secure Key	✓
Storage media *	HDD+SSD	Intel TSX-NI	✗
Number of hard drives installed	1	Intel Clear Video Technology for MID	✗
Hard drive capacity	750 GB	Intel 64	✓
Hard drive interface	SATA	Execute Disable Bit	✓
Hard drive rotational speed	7200 RPM	Idle States	✓
Number of SSDs installed	2	Thermal Monitoring Technologies	✓
Solid-state drive capacity	64 GB	Processor package size	37.5 x 37.5 x 4.7 mm
Solid-state drive interfaces	mSATA	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Optical drive type *	DVD Super Multi	Processor code	SR1HA
Card reader integrated	✓	CPU configuration (max)	1
Compatible memory cards	SD, SDHC, SDXC	Embedded options available	✗
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✗
Discrete graphics card model *	NVIDIA® GeForce® GTX 765M	Intel Identity Protection Technology version	1.00
Discrete graphics card memory	2 GB	Intel Secure Key Technology version	1.00
Discrete graphics memory type	GDDR5	Intel TSX-NI version	0.00
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 4600	Intel Rapid Storage Technology	✗
On-board graphics card base frequency	400 MHz	Intel Fast Memory Access	✗
On-board graphics card dynamic frequency (max)	1150 MHz	Processor ARK ID	76348
Maximum on-board graphics card memory	1.74 GB	Conflict-Free processor	✓
On-board graphics card DirectX version	11.1		
On-board graphics card ID	0x416		
Audio		Battery	
Audio system	Sound Blaster Cinema	Battery technology	Lithium-Ion (Li-Ion)
Number of built-in speakers	4	Number of battery cells	6
Speaker power	2 W		
Built-in microphone	✓	Energy Management	
Camera		AC adapter power	120 W
Front camera	✓	AC adapter output voltage	19 V
Video capturing speed	30 fps	DC-in jack	✓
Network		Security	
Wi-Fi	✓	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 connection	✓	Depth	249.5 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height (front)	3.23 cm

Network		Weight & Dimensions	
Bluetooth	✓	Height (rear)	3.76 cm
Bluetooth version	4.0	Weight *	2.4 kg
Cabling technology	10/100/1000Base-T(X)	Packaging Content	
4G WiMAX	✗	AC adapter bundled *	✓
Ports & interfaces		Other features	
USB 2.0 ports quantity *	2	LightScribe	✗
		3D compatibility	✗

Catalog Object Cloud



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