



**MSI Gaming GT70 2OC-688TH laptop Intel® Core™ i7 i7-4700MQ
43.9 cm (17.3") Full HD 8 GB DDR3-SDRAM 1 TB HDD NVIDIA®
GeForce® GTX 770M Windows 8 Black**

Brand : MSI

Product family: Gaming

Product code: GT70
2OC-688TH

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Intel Core i7-4700MQ (6M Cache, 2.40 GHz), 17.3" Full HD (1920x1080) LED, 8GB DDR3, 1000GB SATAII HDD, BD Combo, Intel HD Graphics 4600 + Nvidia GeForce GTX 770M 3GB GDDR5, Gigabit Ethernet, WLAN 802.11 b/g/n, Bluetooth 4.0, HD Webcam, Windows 8 64-bit

MSI Gaming GT70 2OC-688TH. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4700MQ, Processor frequency: 2.4 GHz. Display diagonal: 43.9 cm (17.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 1 TB, Storage media: HDD, Optical drive type: Blu-Ray DVD Combo. Operating system installed: Windows 8. Product colour: 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		ExpressCard slot	✗
Display diagonal *	43.9 cm (17.3")	CardBus PCMCIA slot type	✗
Display resolution *	1920 x 1080 pixels	SmartCard slot	✗
Touchscreen *	✗	Performance	
HD type	Full HD	Motherboard chipset	Intel® HM87
LED backlight	✓	Keyboard	
Native aspect ratio	16:9	Pointing device	Touchpad
Processor		Numeric keypad *	✓
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor family *	Intel® Core™ i7	Keyboard number of keys	102
Processor generation	4th gen Intel® Core™ i7	Software	
Processor model *	i7-4700MQ	Operating system architecture	64-bit
Processor cores	4	Operating system installed *	Windows 8
Processor threads	8	Processor special features	
Processor boost frequency	3.4 GHz	Intel® Wireless Display (Intel® WiDi)	✓
Processor frequency *	2.4 GHz	Intel® My WiFi Technology (Intel® MWT)	✓
Processor cache	6 MB	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor cache type	Smart Cache	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor socket	PGA946	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor lithography	22 nm	Intel® Turbo Boost Technology	2.0
Processor operating modes	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Core i7-4700 Mobile series	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor codename	Haswell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	C0		
Thermal Design Power (TDP)	47 W		
Tjunction	100 °C		

Processor		Processor special features	
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™	✓
ECC supported by processor	✗	Intel® Quick Sync Video Technology	✓
Memory		Intel Flex Memory Access	✗
Internal memory *	8 GB	Intel® Smart Cache	✓
Internal memory type	DDR3-SDRAM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory clock speed	1600 MHz	Intel Trusted Execution Technology	✗
Memory slots	4x SO-DIMM	Intel Enhanced Halt State	✓
Maximum internal memory *	32 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Storage		Intel Demand Based Switching	✗
Total storage capacity *	1 TB	Intel® Secure Key	✓
Storage media *	HDD	Intel TSX-NI	✗
Number of HDDs installed	1	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
HDD capacity	1 TB	Intel 64	✓
HDD interface	SATA II	Execute Disable Bit	✓
HDD speed	5400 RPM	Idle States	✓
Optical drive type *	Blu-Ray DVD Combo	Thermal Monitoring Technologies	✓
Card reader integrated	✓	Processor package size	37.5 x 32 x 1.6 mm
Compatible memory cards	SD, SDHC, SDXC	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Graphics		Processor code	SR15H
Discrete graphics card model *	NVIDIA® GeForce® GTX 770M	CPU configuration (max)	1
Discrete graphics card memory	3 GB	Embedded options available	✗
Discrete graphics memory type	GDDR5	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 TSX-NI version	0.00
On-board graphics card model *	Intel® HD Graphics 4600	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	400 MHz	Intel Dual Display Capable Technology	✗
On-board graphics card dynamic frequency (max)	1150 MHz	Intel FDI Technology	✓
Maximum on-board graphics card memory	1.74 GB	Intel Rapid Storage Technology	✗
On-board graphics card DirectX version	11.1	Intel Fast Memory Access	✗
On-board graphics card ID	0x416	Processor ARK ID	75117
Audio		Conflict-Free processor	✓
Audio system	Sound Blaster Cinema	Battery	
Number of built-in speakers	2	Battery technology	Lithium-Ion (Li-Ion)
Speaker power	2 W	Number of battery cells	9
Built-in subwoofer	✓	Power	
Built-in microphone	✓	AC adapter power	180 W
Camera		DC-in jack	✓
Front camera	✓	Security	
Video capturing speed	30 fps	Cable lock slot	✓
Network		Cable lock slot type	Kensington
Wi-Fi	✓	Weight & dimensions	
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	428 mm
Ethernet LAN	✓	Depth	288 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height	55 mm
Bluetooth	✓	Weight *	3.9 kg
Bluetooth version	4.0		
Cabling technology	10/100/1000Base-T(X)		
4G WiMAX	✗		

Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	2	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Other features	
Ethernet LAN (RJ-45) ports	1	LightScribe	✗
HDMI ports quantity *	1	3D	✗
DVI port	✗		
VGA (D-Sub) ports quantity	1		

Catalog Object Cloud



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