



**MSI Gaming GV72 8RE-050FR laptop Intel® Core™ i5 i5-8300H
43.9 cm (17.3") Full HD 16 GB DDR4-SDRAM 1.26 TB HDD+SSD
NVIDIA® GeForce® GTX 1060 Windows 10 Home Black**

Brand : MSI

Product family: Gaming

Product code: GV72
8RE-050FR

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Intel Core i5-8300H (8MB Cache, 2.3GHz), 16GB DDR4-SDRAM, 1000GB HDD, 256GB SSD, 43.9 cm (17.3") Full HD 1920 x 1080, Intel UHD Graphics 630, NVIDIA GeForce GTX 1060 (3GB GDDR5), LAN, WLAN, Bluetooth, Webcam, Windows 10 Home 64-bit
MSI Gaming GV72 8RE-050FR. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-8300H, Processor frequency: 2.3 GHz. Display diagonal: 43.9 cm (17.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1.26 TB, Storage media: HDD+SSD. On-board graphics card model: Intel® UHD Graphics 630. Operating system installed: Windows 10 Home. Product colour: Black

Design		Ports & interfaces	
Product type *	Laptop	USB 2.0 ports quantity *	1
Product colour *	Black	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Form factor *	Clamshell	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Market positioning	Gaming	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display		Ethernet LAN (RJ-45) ports	1
Display diagonal *	43.9 cm (17.3")	HDMI ports quantity *	1
Display resolution *	1920 x 1080 pixels	Mini DisplayPorts quantity	1
Touchscreen *	✗	Headphone outputs	1
HD type	Full HD	Microphone in	✓
LED backlight	✓	Performance	
Native aspect ratio	16:9	Motherboard chipset	Intel® HM370
Display surface	Matt	Keyboard	
Dual-screen	✗	Pointing device	Touchpad
Processor		Numeric keypad *	✓
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor family *	Intel® Core™ i5	Windows keys	✓
Processor generation	8th gen Intel® Core™ i5	Software	
Processor model *	i5-8300H	Operating system architecture	64-bit
Processor cores	4	Operating system installed *	Windows 10 Home
Processor threads	8	Processor special features	
Processor boost frequency	4 GHz	Intel® My WiFi Technology (Intel® MWT)	✓
Processor frequency *	2.3 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	8 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache	8 MB	Intel® Turbo Boost Technology	2.0
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Processor socket	BGA 1440		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor codename	Coffee Lake		
Bus type	DMI		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		

Processor		Processor special features	
Configurable TDP-down frequency	1.8 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Tjunction	100 °C	Intel Clear Video Technology	✓
Maximum number of PCI Express lanes	16	Intel® InTru™ 3D Technology	✓
PCI Express slots version	3.0	Intel® Quick Sync Video Technology	✓
PCI Express configurations	1x16, 1x8+2x4, 2x8	Intel Flex Memory Access	✓
ECC supported by processor	✗	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory		Intel Trusted Execution Technology	✗
Internal memory *	16 GB	Intel Enhanced Halt State	✓
Internal memory type	DDR4-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory form factor	SO-DIMM	Intel® Secure Key	✓
Memory slots	2x SO-DIMM	Intel TSX-NI	✗
Maximum internal memory *	32 GB	Intel Stable Image Platform Program (SIPP)	✗
Storage		Intel® OS Guard	✓
Total storage capacity *	1.26 TB	Intel Software Guard Extensions (Intel SGX)	✓
Storage media *	HDD+SSD	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Number of HDDs installed	1	Intel 64	✓
HDD capacity	1 TB	Execute Disable Bit	✓
SSD capacity	256 GB	Idle States	✓
Optical drive type *	✗	Thermal Monitoring Technologies	✓
Card reader integrated	✓	Processor package size	42 x 28 mm
Compatible memory cards	SD, SDHC, SDXC	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	NVIDIA® GeForce® GTX 1060	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card memory	3 GB	Intel Identity Protection Technology version	1.00
Discrete graphics memory type	GDDR5	Intel Stable Image Platform Program (SIPP) version	0.00
On-board graphics card *	✓	Intel Secure Key Technology version	1.00
Discrete graphics card *	✓	Intel TSX-NI version	0.00
On-board graphics card model *	Intel® UHD Graphics 630	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	350 MHz	Processor ARK ID	134876
On-board graphics card dynamic frequency (max)	1000 MHz	Battery	
Maximum on-board graphics card memory	64 GB	Number of battery cells	6
On-board graphics card DirectX version	12.0	Battery capacity *	41 Wh
On-board graphics card OpenGL version	4.5	Power	
On-board graphics card ID	0x3E9B	AC adapter power	180 W
Number of discrete graphics cards installed	1	DC-in jack	✓
CUDA	✓	Security	
Audio		Cable lock slot	✓
Number of built-in speakers	4	Cable lock slot type	Kensington
Speaker power	2 W	Weight & dimensions	
Built-in microphone	✓	Width	419.9 mm
Camera		Depth	287.8 mm
Front camera	✓	Height (front)	2.98 cm
Front camera signal format	720p	Height (rear)	3.2 cm
Front camera HD type	HD	Weight *	2.8 kg
Video capturing speed	30 fps	Packaging content	
Network		AC adapter included *	✓
Wi-Fi	✓		
Wi-Fi standards	Wi-Fi 5 (802.11ac)		
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		

Network		Other features	
Bluetooth version	5.0	3D	×

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