



MSI Gaming GE72VR 6RF(Apache Pro)-209XFR Intel® Core™ i7 i7-6700HQ Laptop 43,9 cm (17.3") Full HD 8 GB DDR4-SDRAM 1,13 TB HDD+SSD NVIDIA® GeForce® GTX 1060 Wi-Fi 5 (802.11ac) FreeDOS Black

Brand : MSI

Product family: Gaming

Product code: GE72VR
6RF-209XFR

Product name : GE72VR
6RF(Apache Pro)-209XFR

Intel Core i7-6700HQ (6M Cache, 2.60 GHz), 17.3" Full HD (1920x1080) LED, 8GB DDR4, 128GB SSD + 1TB SATA HDD, DVD Super Multi, Intel HD Graphics 530 + NVIDIA GeForce GTX 1060 3GB GDDR5, Gigabit Ethernet, WLAN 802.11ac, Bluetooth, HD Webcam, Free DOS
MSI Gaming GE72VR 6RF(Apache Pro)-209XFR. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-6700HQ, Processor frequency: 2,6 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: DDR4-SDRAM. Total storage capacity: 1,13 TB, Storage media: HDD+SSD, Optical drive type: DVD Super Multi. Operating system installed: FreeDOS. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	Mini DisplayPorts quantity	1
Product colour *	Black	DVI port	✗
Form factor *	Clamshell	Headphone outputs	1
Market positioning	Gaming	Microphone in	✓
Display		Docking connector	✗
Display diagonal *	43,9 cm (17.3")	Performance	
Display resolution *	1920 x 1080 pixels	Virtual Reality (VR) ready	✓
Touchscreen *	✗	Motherboard chipset	Intel® HM170
HD type	Full HD	Keyboard	
LED backlight	✓	Pointing device	Touchpad
Native aspect ratio	16:9	Numeric keypad *	✓
Dual-screen	✗	Keyboard backlit	✓
Processor		Windows keys	✓
Processor manufacturer *	Intel	Software	
Processor family *	Intel® Core™ i7	Operating system installed *	FreeDOS
Processor generation	6th gen Intel® Core™ i7	Processor special features	
Processor model *	i7-6700HQ	Intel® Wireless Display (Intel® WiDi)	✓
Processor cores	4	Intel® My WiFi Technology (Intel® MWT)	✓
Processor threads	8	Intel® Smart Response Technology	✓
Processor boost frequency	3,5 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor frequency *	2,6 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	8 GT/s	Intel® Turbo Boost Technology	2.0
Processor cache	6 MB	Intel® Small Business Advantage (Intel® SBA)	✓
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Processor socket	BGA 1440	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor lithography	14 nm	Intel Clear Video Technology	✓
Processor operating modes	64-bit		
Processor series	Intel Core i7-6700 Mobile series		
Processor codename	Skylake		
Bus type	DMI3		
Stepping	R0		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel® InTru™ 3D Technology	✓
PCI Express slots version	3.0	Intel® Insider™	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Quick Sync Video Technology	✓
ECC supported by processor	✗	Intel Flex Memory Access	✓
Memory		Intel® AES New Instructions (Intel® AES-NI)	✓
Internal memory *	8 GB	Intel Trusted Execution Technology	✗
Internal memory type	DDR4-SDRAM	Intel Enhanced Halt State	✓
Memory form factor	SO-DIMM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory slots	2x SO-DIMM	Intel® Secure Key	✓
Maximum internal memory *	32 GB	Intel TSX-NI	✗
Storage		Intel Stable Image Platform Program (SIPP)	✗
Total storage capacity *	1,13 TB	Intel® OS Guard	✓
Storage media *	HDD+SSD	Intel Software Guard Extensions (Intel SGX)	✓
Number of HDDs installed	1	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
HDD capacity	1 TB	Intel 64	✓
SSD capacity	128 GB	Execute Disable Bit	✓
Optical drive type *	DVD Super Multi	Idle States	✓
Card reader integrated	✓	Thermal Monitoring Technologies	✓
Compatible memory cards	SD, SDHC, SDXC	Processor package size	42 x 28 mm
Graphics		Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Discrete graphics card model *	NVIDIA® GeForce® GTX 1060	Processor code	SR2FQ
Discrete graphics card memory	3 GB	CPU configuration (max)	1
Discrete graphics memory type	GDDR5	Embedded options available	✗
On-board graphics card *	✓	Graphics & IMC lithography	14 nm
Discrete graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card family	Intel® HD Graphics	Intel Identity Protection Technology version	1,00
On-board graphics card model *	Intel® HD Graphics 530	Intel Smart Response Technology version	1,00
On-board graphics card base frequency	350 MHz	Intel Stable Image Platform Program (SIPP) version	0,00
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Secure Key Technology version	1,00
Maximum on-board graphics card memory	1,7 GB	Intel Small Business Advantage (SBA) version	1,00
On-board graphics card DirectX version	12.0	Intel TSX-NI version	1,00
On-board graphics card OpenGL version	4.4	Intel Virtualization Technology (VT-x)	✓
On-board graphics card ID	0x191B	Processor ARK ID	88967
Number of discrete graphics cards installed	1	Conflict-Free processor	✓
NVIDIA G-SYNC	✓	Battery	
NVIDIA GameWorks VR	✓	Battery technology	Lithium-Ion (Li-Ion)
CUDA	✓	Number of battery cells	6
NVIDIA 3D Vision	✓	Battery capacity	4730 mAh
Audio		Battery capacity *	51,4 Wh
Number of built-in speakers	4	Power	
Speaker power	8 W	AC adapter power	180 W
Built-in subwoofer	✓	AC adapter frequency	50 - 60 Hz
Built-in microphone	✓	AC adapter output voltage	19.5 V
Camera		DC-in jack	✓
Front camera	✓	Security	
Front camera resolution	1280 x 720 pixels	Cable lock slot	✓
Video capturing speed	30 fps	Cable lock slot type	Kensington
Network			
Wi-Fi	✓		
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)		

Network		Weight & dimensions	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	420 mm
Ethernet LAN	✓	Depth	288 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height (front)	2,98 cm
Bluetooth	✓	Height (rear)	3,2 cm
Bluetooth version	4.0	Weight *	2,7 kg
Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	1	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Manual	✓
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1	Other features	
Ethernet LAN (RJ-45) ports	1	LightScribe	✗
HDMI ports quantity *	1	3D	✗
HDMI version	1.4		

Catalog Object Cloud



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