



**MSI Gaming GE72 6QF(Apache Pro)-083JP Intel® Core™ i7
i7-6700HQ Laptop 43,9 cm (17.3") Full HD 16 GB DDR4-SDRAM
1,26 TB HDD+SSD NVIDIA® GeForce® GTX 970M Wi-Fi 5
(802.11ac) Windows 10 Home Black**



Brand : MSI

Product family: Gaming

Product code: GE72 6QF-083JP

Product name : GE72
6QF(Apache Pro)-083JP

Intel Core i7-6700HQ (6M Cache, 2.60 GHz), 17.3" Full HD (1920x1080) LED, 16GB DDR4, 256GB SSD + 1TB SATA HDD, DVD Super Multi, Intel HD Graphics 530 + NVIDIA GeForce GTX 970M 3GB GDDR5, Gigabit Ethernet, WLAN 802.11ac, Bluetooth 4.0, HD Webcam, Windows 10 Home 64-bit
MSI Gaming GE72 6QF(Apache Pro)-083JP. 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: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1,26 TB, Storage media: HDD+SSD, Optical drive type: DVD Super Multi. Operating system installed: Windows 10 Home. Product colour: Black

Design		Ports & interfaces	
Product type *	Laptop	S/PDIF out port	✗
Product colour *	Black	Microphone in	✓
Form factor *	Clamshell	Docking connector	✗
Market positioning	Gaming	ExpressCard slot	✗
Display		CardBus PCMCIA slot type	✗
Display diagonal *	43,9 cm (17.3")	SmartCard slot	✗
Display resolution *	1920 x 1080 pixels	Performance	
Touchscreen *	✗	Motherboard chipset	Intel® HM170
HD type	Full HD	Keyboard	
Panel type	IPS	Pointing device	Touchpad
LED backlight	✓	Numeric keypad *	✓
Native aspect ratio	16:9	Keyboard backlit	✓
Display surface	Matt	Windows keys	✓
Dual-screen	✗	Software	
Processor		Operating system architecture	64-bit
Processor manufacturer *	Intel	Operating system installed *	Windows 10 Home
Processor family *	Intel® Core™ i7	Processor special features	
Processor generation	6th gen Intel® Core™ i7	Intel® Wireless Display (Intel® WiDi)	✓
Processor model *	i7-6700HQ	Intel® My WiFi Technology (Intel® MWT)	✓
Processor cores	4	Intel® Smart Response Technology	✓
Processor threads	8	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	3,5 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor frequency *	2,6 GHz	Intel® Turbo Boost Technology	2.0
System bus rate	8 GT/s	Intel® Small Business Advantage (Intel® SBA)	✓
Processor cache	6 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache		
Processor socket	BGA 1440		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-6700 Mobile series		
Processor codename	Skylake		
Bus type	DMI3		

Processor		Processor special features	
Stepping	R0	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Thermal Design Power (TDP)	45 W	Intel Clear Video Technology	✓
Configurable TDP-down	35 W	Intel® InTru™ 3D Technology	✓
Tjunction	100 °C	Intel® Insider™	✓
Maximum number of PCI Express lanes	16	Intel® Quick Sync Video Technology	✓
PCI Express slots version	3.0	Intel Flex Memory Access	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® AES New Instructions (Intel® AES-NI)	✓
ECC supported by processor	✗	Intel Trusted Execution Technology	✗
Memory		Intel Enhanced Halt State	✓
Internal memory *	16 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	DDR4-SDRAM	Intel® Secure Key	✓
Memory clock speed	2133 MHz	Intel TSX-NI	✗
Memory form factor	SO-DIMM	Intel Stable Image Platform Program (SIPP)	✗
Memory slots	2x SO-DIMM	Intel® OS Guard	✓
Maximum internal memory *	32 GB	Intel Software Guard Extensions (Intel SGX)	✓
Storage		Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Total storage capacity *	1,26 TB	Intel 64	✓
Storage media *	HDD+SSD	Execute Disable Bit	✓
Number of hard drives installed	1	Idle States	✓
Hard drive capacity	1 TB	Thermal Monitoring Technologies	✓
Solid-state drive capacity	256 GB	Processor package size	42 x 28 mm
Optical drive type *	DVD Super Multi	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Card reader integrated	✓	Processor code	SR2FQ
Compatible memory cards	SD, SDHC, SDXC	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	NVIDIA® GeForce® GTX 970M	Graphics & IMC lithography	14 nm
Discrete graphics card memory	3 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics memory type	GDDR5	Intel Identity Protection Technology version	1,00
On-board graphics card *	✓	Intel Smart Response Technology version	1,00
Discrete graphics card *	✓	Intel Stable Image Platform Program (SIPP) version	0,00
On-board graphics card family	Intel® HD Graphics	Intel Secure Key Technology version	1,00
On-board graphics card model *	Intel® HD Graphics 530	Intel Small Business Advantage (SBA) version	1,00
On-board graphics card base frequency	350 MHz	Intel TSX-NI version	1,00
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Virtualization Technology (VT-x)	✓
Maximum on-board graphics card memory	1,7 GB	Processor ARK ID	88967
On-board graphics card DirectX version	12.0	Conflict-Free processor	✓
On-board graphics card OpenGL version	4.4	Battery	
On-board graphics card ID	0x191B	Battery technology	Lithium-Ion (Li-Ion)
Audio		Number of battery cells	6
Speakers manufacturer	Dynaudio	Power	
Built-in microphone	✓	AC adapter power	120 W
Camera		AC adapter frequency	50 - 60 Hz
Front camera	✓	DC-in jack	✓
Front camera resolution	1280 x 720 pixels	Security	
Video capturing speed	30 fps	Cable lock slot	✓
Network		Cable lock slot type	Kensington
Wi-Fi	✓		
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)		
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Ethernet LAN	✓		
Ethernet LAN data rates	10,1000,100 Mbit/s		

Network		Weight & dimensions	
Bluetooth	✓	Width	419,9 mm
Bluetooth version	4.0	Depth	287,8 mm
Ports & interfaces		Height (front)	2,98 cm
USB 2.0 ports quantity *	1	Height (rear)	3,2 cm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Weight *	2,9 kg
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1	Packaging content	
Ethernet LAN (RJ-45) ports	1	AC adapter included *	✓
HDMI ports quantity *	1	Manual	✓
HDMI version	1.4	Other features	
Mini DisplayPorts quantity	1	LightScribe	✗
DVI port	✗	3D	✗
Headphone outputs	1		

Catalog Object Cloud



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