



MSI Gaming GE72 2QE(Apache)-051AU Intel® Core™ i7 i7-4720HQ Laptop 43.9 cm (17.3") Full HD 16 GB DDR3L-SDRAM 1 TB HDD NVIDIA® GeForce® GTX 965M Wi-Fi 5 (802.11ac) Windows 8.1 Black



Brand : MSI

Product family: Gaming

Product code: GE72
2QE-051AU

Product name : GE72
2QE(Apache)-051AU

Intel Core i7-4720HQ (6M Cache, 2.60 GHz), 17.3" Full HD (1920x1080) LED, 16GB DDR3L, 1TB SATA HDD, DVD Super Multi, Intel HD Graphics 4600 + NVIDIA GeForce GTX 965M 2GB GDDR5, Gigabit Ethernet, WLAN 802.11ac, Bluetooth 4.1, HD Webcam, Windows 8.1 64-bit
MSI Gaming GE72 2QE(Apache)-051AU. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4720HQ, 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: DDR3L-SDRAM. Total storage capacity: 1 TB, Storage media: HDD, Optical drive type: DVD Super Multi. Operating system installed: Windows 8.1. 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	Line-in	✓
Display		Docking connector	×
Display diagonal *	43.9 cm (17.3")	ExpressCard slot	×
Display resolution *	1920 x 1080 pixels	CardBus PCMCIA slot type	×
Touchscreen *	×	SmartCard slot	×
HD type	Full HD	Performance	
LED backlight	✓	Motherboard chipset	Intel® HM87
Native aspect ratio	16:9	Keyboard	
Display surface	Matt	Pointing device	Touchpad
Dual-screen	×	Numeric keypad *	✓
Processor		Keyboard backlit	✓
Processor manufacturer *	Intel	Windows keys	✓
Processor family *	Intel® Core™ i7	Software	
Processor generation	4th gen Intel® Core™ i7	Operating system architecture	64-bit
Processor model *	i7-4720HQ	Operating system installed *	Windows 8.1
Processor cores	4	Processor special features	
Processor threads	8	Intel® Wireless Display (Intel® WiDi)	✓
Processor boost frequency	3.6 GHz	Intel® My WiFi Technology (Intel® MWT)	×
Processor frequency *	2.6 GHz	Intel® Anti-Theft Technology (Intel® AT)	✓
System bus rate	5 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cache	6 MB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache type	L3	Intel® Turbo Boost Technology	×
Processor socket	BGA 1364	Enhanced Intel SpeedStep Technology	✓
Processor lithography	22 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor operating modes	64-bit		
Processor series	Intel Core i7-4700 Mobile series		
Processor codename	Haswell		
Bus type	DMI2		
FSB Parity	×		
Stepping	C0		
Thermal Design Power (TDP)	47 W		

Processor		Processor special features	
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® Insider™	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Quick Sync Video Technology	✓
ECC supported by processor	✗	Intel Flex Memory Access	✗
Memory		Intel® Smart Cache	✓
Internal memory *	16 GB	Intel® AES New Instructions (Intel® AES-NI)	✓
Internal memory type	DDR3L-SDRAM	Intel Trusted Execution Technology	✗
Memory clock speed	1600 MHz	Intel Enhanced Halt State	✓
Memory slots	2x SO-DIMM	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum internal memory *	16 GB	Intel Demand Based Switching	✗
Storage		Intel® Secure Key	✓
Total storage capacity *	1 TB	Intel TSX-NI	✗
Storage media *	HDD	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	✓
HDD interface	SATA	Idle States	✓
HDD speed	7200 RPM	Thermal Monitoring Technologies	✓
Optical drive type *	DVD Super Multi	Processor package size	37.5 x 32 x 1.6 mm
Card reader integrated	✓	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Compatible memory cards	SD, SDHC, SDXC	Processor code	SR1Q8
Graphics		CPU configuration (max)	1
Discrete graphics card model *	NVIDIA® GeForce® GTX 965M	Embedded options available	✗
Discrete graphics card memory	2 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 Secure Key Technology version	1.00
Discrete graphics card *	✓	Intel TSX-NI version	0.00
On-board graphics card family	Intel® HD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 4600	Intel Dual Display Capable Technology	✗
On-board graphics card base frequency	400 MHz	Intel FDI Technology	✓
On-board graphics card dynamic frequency (max)	1200 MHz	Intel Rapid Storage Technology	✗
Maximum on-board graphics card memory	1.74 GB	Intel Fast Memory Access	✗
On-board graphics card DirectX version	11.2/12	Processor ARK ID	78934
On-board graphics card OpenGL version	4.3	Conflict-Free processor	✓
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
Speakers manufacturer	Dynaudio	Battery capacity *	60 Wh
Speaker power	2 W		
Built-in microphone	✓	Power	
Camera		AC adapter power	150 W
Front camera	✓	AC adapter frequency	50 - 60 Hz
Front camera resolution	1280 x 720 pixels	DC-in jack	✓
Video capturing speed	30 fps		
Network		Security	
Wi-Fi	✓	Cable lock slot	✓
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Cable lock slot type	Kensington
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Weight & dimensions	
Ethernet LAN	✓	Width	419 mm
Ethernet LAN data rates	10,1000,100 Mbit/s	Depth	280 mm
		Height	29 mm

Network		Weight & dimensions	
Bluetooth	✓	Weight *	2.7 kg
Bluetooth version	4.1	Packaging content	
Ports & interfaces		AC adapter included *	✓
USB 2.0 ports quantity *	1	Manual	✓
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	✗
HDMI version	1.4b	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Mini DisplayPorts quantity	1		
DVI port	✗		

Catalog Object Cloud



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