



MSI Gaming GE72 2QD(Apache)-001AU Intel® Core™ i7 i7-4720HQ Laptop 43,9 cm (17.3") Full HD 8 GB DDR3L-SDRAM 1,13 TB HDD+SSD NVIDIA® GeForce® GTX 960M Wi-Fi 5 (802.11ac) Windows 8.1 Black



Brand : MSI

Product family: Gaming

Product code: GE72
2QD-001AU

Product name : GE72
2QD(Apache)-001AU

Intel Core i7-4720HQ (6M Cache, 2.60 GHz), 17.3" Full HD (1920x1080) LED, 8GB DDR3L, 128GB SSD + 1TB SATA HDD, DVD Super Multi, Intel HD Graphics 4600 + NVIDIA GeForce GTX 960M 2GB GDDR5, Gigabit Ethernet, WLAN 802.11ac, Bluetooth 4.1, HD Webcam, Windows 8.1 64-bit
MSI Gaming GE72 2QD(Apache)-001AU. 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: 8 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 1,13 TB, Storage media: HDD+SSD, Optical drive type: DVD Super Multi. Operating system installed: Windows 8.1. 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	S/PDIF out port	×
Display		Microphone in	✓
Display diagonal *	43,9 cm (17.3")	Line-in	✓
Display resolution *	1920 x 1080 pixels	Docking connector	×
Touchscreen *	×	ExpressCard slot	×
HD type	Full HD	CardBus PCMCIA slot type	×
LED backlight	✓	SmartCard slot	×
Native aspect ratio	16:9	Performance	
Display surface	Matt	Motherboard chipset	Intel® HM87
Dual-screen	×	Keyboard	
Processor		Pointing device	Touchpad
Processor manufacturer *	Intel	Numeric keypad *	✓
Processor family *	Intel® Core™ i7	Keyboard backlit	✓
Processor generation	4th gen Intel® Core™ i7	Windows keys	✓
Processor model *	i7-4720HQ	Software	
Processor cores	4	Operating system architecture	64-bit
Processor threads	8	Operating system installed *	Windows 8.1
Processor boost frequency	3,6 GHz	Processor special features	
Processor frequency *	2,6 GHz	Intel® Wireless Display (Intel® WiDi)	✓
System bus rate	5 GT/s	Intel® My WiFi Technology (Intel® MWT)	×
Processor cache	6 MB	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor cache type	L3	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor socket	BGA 1364	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor lithography	22 nm	Intel® Turbo Boost Technology	×
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	Enhanced Intel SpeedStep Technology	✓
Maximum number of PCI Express lanes	16	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
PCI Express slots version	3.0	Intel Clear Video Technology	✗
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® InTru™ 3D Technology	✓
ECC supported by processor	✗	Intel® Insider™	✓
Memory		Intel® Quick Sync Video Technology	✓
Internal memory *	8 GB	Intel Flex Memory Access	✗
Internal memory type	DDR3L-SDRAM	Intel® Smart Cache	✓
Memory clock speed	1600 MHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory slots	2x SO-DIMM	Intel Trusted Execution Technology	✗
Maximum internal memory *	16 GB	Intel Enhanced Halt State	✓
Storage		Intel VT-x with Extended Page Tables (EPT)	✓
Total storage capacity *	1,13 TB	Intel Demand Based Switching	✗
Storage media *	HDD+SSD	Intel® Secure Key	✓
Number of hard drives installed	1	Intel TSX-NI	✗
Hard drive capacity	1 TB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Hard drive interface	SATA	Intel 64	✓
Hard drive speed	7200 RPM	Execute Disable Bit	✓
Number of SSDs installed	1	Idle States	✓
Solid-state drive capacity	128 GB	Thermal Monitoring Technologies	✓
Solid-state drive interface	mSATA	Processor package size	37.5 x 32 x 1.6 mm
Optical drive type *	DVD Super Multi	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Card reader integrated	✓	Processor code	SR1Q8
Compatible memory cards	SD, SDHC, SDXC	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	NVIDIA® GeForce® GTX 960M	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card memory	2 GB	Intel Identity Protection Technology version	1,00
Discrete graphics memory type	GDDR5	Intel Secure Key Technology version	1,00
On-board graphics card *	✓	Intel TSX-NI version	0,00
Discrete graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card family	Intel® HD Graphics	Intel Dual Display Capable Technology	✗
On-board graphics card model *	Intel® HD Graphics 4600	Intel FDI Technology	✓
On-board graphics card base frequency	400 MHz	Intel Rapid Storage Technology	✗
On-board graphics card dynamic frequency (max)	1200 MHz	Intel Fast Memory Access	✗
Maximum on-board graphics card memory	1,74 GB	Processor ARK ID	78934
On-board graphics card DirectX version	11.2/12	Conflict-Free processor	✓
On-board graphics card OpenGL version	4.3	Battery	
On-board graphics card ID	0x416	Battery technology	Lithium-Ion (Li-Ion)
Audio		Number of battery cells	6
Audio system	Sound Blaster Cinema	Battery capacity *	60 Wh
Number of built-in speakers	4	Power	
Speakers manufacturer	Dynaudio	AC adapter power	150 W
Speaker power	2 W	AC adapter frequency	50 - 60 Hz
Built-in microphone	✓	DC-in jack	✓
Camera		Security	
Front camera	✓	Cable lock slot	✓
Front camera resolution	1280 x 720 pixels	Cable lock slot type	Kensington
Video capturing speed	30 fps		
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	419 mm
Ethernet LAN	✓	Depth	280 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height	29 mm
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

Catalog Object Cloud



Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.