



**MSI Gaming GE60 2PC(Apache)-033 Intel® Core™ i7 i7-4700HQ
Laptop 39,6 cm (15.6") Full HD 8 GB DDR3L-SDRAM 1 TB HDD
NVIDIA® GeForce® GTX 850M Wi-Fi 4 (802.11n) Windows 8.1
Black**



Brand : MSI

Product family: Gaming

Product code: GE60 2PC-033

Product name : GE60
2PC(Apache)-033

Intel Core i7-4700HQ (6M Cache, 2.40 GHz), 15.6" Full HD (1920x1080) LED, 8GB DDR3L, 1TB SATA HDD, DVD Super Multi, Intel HD Graphics 4600 + NVIDIA GeForce GTX 850M 2GB GDDR5, Gigabit Ethernet, WLAN 802.11 b/g/n, Bluetooth 4.0, HD Webcam, Windows 8.1 64-bit
MSI Gaming GE60 2PC(Apache)-033. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4700HQ, Processor frequency: 2,4 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 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	Microphone in	✓
Product colour *	Black	Docking connector	✗
Form factor *	Clamshell	ExpressCard slot	✗
Market positioning	Gaming	CardBus PCMCIA slot type	✗
Display		SmartCard slot	✗
Display diagonal *	39,6 cm (15.6")	Performance	
Display resolution *	1920 x 1080 pixels	Motherboard chipset	Intel® HM86
Touchscreen *	✗	Keyboard	
HD type	Full HD	Pointing device	Touchpad
LED backlight	✓	Numeric keypad *	✓
Native aspect ratio	16:9	Keyboard backlit	✓
Display surface	Matt	Keyboard number of keys	103
Dual-screen	✗	Windows keys	✓
Processor		Software	
Processor manufacturer *	Intel	Operating system architecture	64-bit
Processor family *	Intel® Core™ i7	Operating system installed *	Windows 8.1
Processor generation	4th gen Intel® Core™ i7	Processor special features	
Processor model *	i7-4700HQ	Intel® Wireless Display (Intel® WiDi)	✓
Processor cores	4	Intel® My WiFi Technology (Intel® MWT)	✓
Processor threads	8	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor boost frequency	3,4 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor frequency *	2,4 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache	6 MB	Intel® Turbo Boost Technology	2.0
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Processor socket	BGA 1364	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-4700 Mobile series		
Processor codename	Haswell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	C0		

Processor		Processor special features	
Thermal Design Power (TDP)	47 W	Intel Clear Video Technology	✗
Tjunction	100 °C	Intel® InTru™ 3D Technology	✓
Maximum number of PCI Express lanes	16	Intel® Insider™	✓
PCI Express slots version	3.0	Intel® Quick Sync Video Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Flex Memory Access	✗
ECC supported by processor	✗	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory		Intel Trusted Execution Technology	✗
Internal memory *	8 GB	Intel Enhanced Halt State	✓
Internal memory type	DDR3L-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory clock speed	1600 MHz	Intel Demand Based Switching	✗
Memory form factor	SO-DIMM	Intel® Secure Key	✓
Memory slots	2x SO-DIMM	Intel TSX-NI	✗
Maximum internal memory *	16 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Storage		Intel 64	✓
Total storage capacity *	1 TB	Execute Disable Bit	✓
Storage media *	HDD	Idle States	✓
Number of HDDs installed	1	Thermal Monitoring Technologies	✓
HDD capacity	1 TB	Processor package size	37.5 x 32 x 1.6 mm
HDD interface	SATA	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD speed	7200 RPM	Processor code	SR15E
Optical drive type *	DVD Super Multi	CPU configuration (max)	1
Card reader integrated	✓	Embedded options available	✗
Compatible memory cards	SD, SDHC, SDXC	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel Identity Protection Technology version	1,00
Discrete graphics card model *	NVIDIA® GeForce® GTX 850M	Intel Secure Key Technology version	1,00
Discrete graphics card memory	2 GB	Intel TSX-NI version	0,00
Discrete graphics memory type	GDDR5	Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Dual Display Capable Technology	✗
Discrete graphics card *	✓	Intel FDI Technology	✓
On-board graphics card family	Intel® HD Graphics	Intel Rapid Storage Technology	✗
On-board graphics card model *	Intel® HD Graphics 4600	Intel Fast Memory Access	✗
On-board graphics card base frequency	400 MHz	Processor ARK ID	75116
On-board graphics card dynamic frequency (max)	1200 MHz	Conflict-Free processor	✓
Maximum on-board graphics card memory	1,74 GB		
On-board graphics card DirectX version	11.2/12		
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	4400 mAh
Speaker power	2 W	Battery capacity *	49 Wh
Built-in microphone	✓		
Camera		Power	
Front camera	✓	AC adapter power	120 W
Front camera resolution	1280 x 720 pixels	AC adapter frequency	50 - 60 Hz
Video capturing speed	30 fps	DC-in jack	✓
Network		Security	
Wi-Fi	✓	Cable lock slot	✓
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Cable lock slot type	Kensington
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Ethernet LAN	✓	Weight & dimensions	
Ethernet LAN data rates	10,100,1000 Mbit/s	Width	383 mm
		Depth	249,5 mm
		Height (front)	3,23 cm

Network		Weight & dimensions	
Bluetooth	✓	Height (rear)	3,76 cm
Bluetooth version	4.0	Weight *	2,6 kg
Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	2	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Manual	✓
		Other features	
Ethernet LAN (RJ-45) ports	1	LightScribe	✗
HDMI ports quantity *	1	3D	✗
DVI port	✗	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
VGA (D-Sub) ports quantity	1		
Headphone outputs	1		
S/PDIF out port	✗		



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