



MSI Gaming GE60 2PE Apache Pro Intel® Core™ i7 i7-4700HQ Laptop 39,6 cm (15.6") Full HD 8 GB DDR3L-SDRAM 1 TB HDD NVIDIA® GeForce® GTX 860M Windows 8.1 Black

Brand : MSI

Product family: Gaming

Product code: GE60
2PE-098SG

Product name : GE60 2PE
Apache Pro



15.6" (1920 x 1080, LED), Intel Core i7-4700HQ, 8GB (DDR3L), 1TB (HDD), Windows 8.1, NVIDIA GeForce GTX 860M (2GB, GDDR5), DVD Super Multi, 802.11 a/b/g/n/ac, Bluetooth 4.0, 2 x USB 2.0, 2 x USB 3.0, 1 x VGA, 1 x HDMI, 1 x LAN, 2.6 kg

MSI Gaming GE60 2PE Apache Pro. 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		Performance	
Product type *	Laptop	Motherboard chipset	Intel® HM87
Product colour *	Black	Keyboard	
Form factor *	Clamshell	Pointing device	Touchpad
Market positioning	Gaming	Numeric keypad *	✓
Display		Keyboard backlight	✓
Display diagonal *	39,6 cm (15.6")	Keyboard number of keys	103
Display resolution *	1920 x 1080 pixels	Software	
Touchscreen *	✗	Operating system architecture	64-bit
HD type	Full HD	Operating system installed *	Windows 8.1
LED backlight	✓	Processor special features	
Native aspect ratio	16:9	Intel® Wireless Display (Intel® WiDi)	✓
Display surface	Matt	Intel® My WiFi Technology (Intel® MWT)	✓
Processor		Intel Smart Connect Technology	✗
Processor manufacturer *	Intel	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor family *	Intel® Core™ i7	Intel® Rapid Start Technology	✗
Processor generation	4th gen Intel® Core™ i7	Intel® Smart Response Technology	✗
Processor model *	i7-4700HQ	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	8	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3,4 GHz	Intel® Small Business Advantage (Intel® SBA)	✗
Processor frequency *	2,4 GHz	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor cache	6 MB	Intel® High Definition Audio (Intel® HD Audio)	✗
Processor cache type	Smart Cache	Intel® Active Management Technology (Intel® AMT)	✗
Processor socket	BGA 1364		
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	Enhanced Intel SpeedStep Technology	✓
Tjunction	100 °C	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Maximum number of PCI Express lanes	16	Intel Clear Video Technology	✗
PCI Express slots version	3.0	Intel® InTru™ 3D Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Insider™	✓
ECC supported by processor	✗	Intel® Quick Sync Video Technology	✓
Memory		Intel Flex Memory Access	✗
Internal memory *	8 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 form factor	SO-DIMM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory slots	2x SO-DIMM	Intel Demand Based Switching	✗
Maximum internal memory *	16 GB	Intel® Secure Key	✓
Storage		Intel TSX-NI	✗
Total storage capacity *	1 TB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Storage media *	HDD	Intel 64	✓
Number of hard drives installed	1	Execute Disable Bit	✓
Hard drive capacity	1 TB	Idle States	✓
Hard drive interface	SATA	Thermal Monitoring Technologies	✓
Hard drive speed	7200 RPM	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	SR15E
Compatible memory cards	SD, SDHC, SDXC	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	NVIDIA® GeForce® GTX 860M	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	75116
On-board graphics card DirectX version	11.2/12	Conflict-Free processor	✓
On-board graphics card ID	0x416		
Number of discrete graphics cards supported	1		
Number of discrete graphics cards installed	1		
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	AC adapter input voltage	100 - 240 V
Network		DC-in jack	✓
Wi-Fi	✓	Security	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Cable lock slot	✓
		Cable lock slot type	Kensington

Network		Weight & dimensions	
Ethernet LAN	✓	Width	383 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Depth	249,5 mm
Bluetooth	✓	Height (front)	3,23 cm
Bluetooth version	4.0	Height (rear)	3,76 cm
Ports & interfaces		Weight *	2,6 kg
USB 2.0 ports quantity *	2	Packaging content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	AC adapter included *	✓
Ethernet LAN (RJ-45) ports	1	Manual	✓
HDMI ports quantity *	1	Power cord included	✓
DVI port	✗	Other features	
VGA (D-Sub) ports quantity	1	Maximum internal memory (64-bit)	16 GB
Headphone outputs	1	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
S/PDIF out port	✗		
Microphone in	✓		
Docking connector	✗		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		

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.