



**MSI Gaming GE60 2PE(Apache Pro)-012NL Intel® Core™ i7
i7-4700HQ Laptop 39,6 cm (15.6") Full HD 16 GB DDR3L-SDRAM
1,26 TB HDD+SSD NVIDIA® GeForce® GTX 860M Windows 8.1
Black**

Brand : MSI

Product family: Gaming

Product code: GE60
2PE-012NL

Product name : GE60
2PE(Apache Pro)-012NL

Intel Core i7-4700HQ (6M Cache, 2.40 GHz), 15.6" Full HD (1920x1080) LED, 16GB DDR3L, 2 x 128GB SSD + 1000GB SATA HDD, BD Combo, Intel HD Graphics 4600 + NVIDIA GeForce GTX 860M 2GB GDDR5, Gigabit Ethernet, WLAN 802.11ac/a/b/g/n, Bluetooth 4.0, HD Webcam, Windows 8.1 64-bit
MSI Gaming GE60 2PE(Apache Pro)-012NL. 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: 16 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 1,26 TB, Storage media: HDD+SSD, Optical drive type: Blu-Ray DVD Combo. Operating system installed: Windows 8.1. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	VGA (D-Sub) ports quantity	1
Product colour *	Black	Headphone outputs	1
Form factor *	Clamshell	S/PDIF out port	✗
Market positioning	Gaming	Microphone in	✓
Display		Docking connector	✗
Display diagonal *	39,6 cm (15.6")	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
Processor		Numeric keypad *	✓
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor family *	Intel® Core™ i7	Keyboard number of keys	103
Processor generation	4th gen Intel® Core™ i7	Software	
Processor model *	i7-4700HQ	Operating system architecture	64-bit
Processor cores	4	Operating system installed *	Windows 8.1
Processor threads	8	Processor special features	
Processor boost frequency	3,4 GHz	Intel® Wireless Display (Intel® WiDi)	✓
Processor frequency *	2,4 GHz	Intel® My WiFi Technology (Intel® MWT)	✓
Processor cache	6 MB	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor cache type	Smart Cache	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	2.0
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 *	16 GB	Intel® AES New Instructions (Intel® AES-NI)	✓
Internal memory type	DDR3L-SDRAM	Intel Trusted Execution Technology	✗
Memory form factor	SO-DIMM	Intel Enhanced Halt State	✓
Memory layout (slots x size)	2 x 8 GB	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 *	1,26 TB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Storage media *	HDD+SSD	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
Number of SSDs installed	2	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Solid-state drive capacity	128 GB	Processor code	SR15E
Solid-state drive interface	mSATA	CPU configuration (max)	1
Optical drive type *	Blu-Ray DVD Combo	Embedded options available	✗
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Compatible memory cards	SD, SDHC, SDXC	Intel Identity Protection Technology version	1,00
Graphics		Intel Secure Key Technology version	1,00
Discrete graphics card model *	NVIDIA® GeForce® GTX 860M	Intel TSX-NI version	0,00
Discrete graphics card memory	2 GB	Intel Virtualization Technology (VT-x)	✓
Discrete graphics memory type	GDDR5	Intel Dual Display Capable Technology	✗
On-board graphics card *	✓	Intel FDI Technology	✓
Discrete graphics card *	✓	Intel Rapid Storage Technology	✗
On-board graphics card family	Intel® HD Graphics	Intel Fast Memory Access	✗
On-board graphics card model *	Intel® HD Graphics 4600	Processor ARK ID	75116
On-board graphics card base frequency	400 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	1200 MHz	Battery	
Maximum on-board graphics card memory	1,74 GB	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card DirectX version	11.2/12	Number of battery cells	6
On-board graphics card ID	0x416	Battery capacity	4400 mAh
Audio		Battery capacity *	49 Wh
Audio system	Sound Blaster Cinema	Power	
Number of built-in speakers	2	AC adapter power	120 W
Speakers manufacturer	Dynaudio	DC-in jack	✓
Built-in microphone	✓	Security	
Camera		Cable lock slot	✓
Front camera	✓	Cable lock slot type	Kensington
Front camera resolution	1280 x 720 pixels	Weight & dimensions	
Video capturing speed	30 fps	Width	383 mm
Network			
Wi-Fi	✓		
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Ethernet LAN	✓		

Network		Weight & dimensions	
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	Other features	
HDMI ports quantity *	1	LightScribe	✗
HDMI version	1.4	3D	✗
DVI port	✗		



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Catalog Object Cloud



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