



**MSI Gaming GS60 6QE-419ES Ghost Pro Intel® Core™ i7
i7-6700HQ Laptop 39,6 cm (15.6") Full HD 16 GB DDR4-SDRAM
1,26 TB HDD+SSD NVIDIA® GeForce® GTX 970M Wi-Fi 5
(802.11ac) Windows 10 Home Black**



Brand : MSI

Product family: Gaming

Article code: 9S7-16H712-419

Product name : GS60
6QE-419ES Ghost Pro

MSI Gaming GS60 6QE-419ES Ghost Pro. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-6700HQ, Processor frequency: 2,6 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: DDR4-SDRAM. Total storage capacity: 1,26 TB, Storage media: HDD+SSD. On-board graphics card model: Intel® HD Graphics 530. Operating system installed: Windows 10 Home. Product color: Black



Design		Ports & interfaces	
Product type *	Laptop	CardBus PCMCIA slot type	✗
Product color *	Black	SmartCard slot	✗
Form factor *	Clamshell	Performance	
Market positioning	Gaming		
Display		Motherboard chipset	Intel® HM170
Display diagonal *	39,6 cm (15.6")	Keyboard	
Display resolution *	1920 x 1080 pixels	Pointing device	Touchpad
Touchscreen *	✗	Numeric keypad *	✓
HD type	Full HD	Keyboard backlit	✓
Panel type	IPS	Windows keys	✓
LED backlight	✓	Software	
Native aspect ratio	16:9	Operating system architecture	64-bit
Display surface	Matt	Operating system installed *	Windows 10 Home
Dual-screen	✗	Processor special features	
Processor		Intel® Wireless Display (Intel® WiDi)	✓
Processor manufacturer *	Intel	Intel® My WiFi Technology (Intel® MWT)	✓
Processor family *	Intel® Core™ i7	Intel® Anti-Theft Technology (Intel® AT)	✗
Processor generation	6th gen Intel® Core™ i7	Intel® Smart Response Technology	✓
Processor model *	i7-6700HQ	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	3,5 GHz	Intel® Small Business Advantage (Intel® SBA)	✓
Processor frequency *	2,6 GHz	Enhanced Intel SpeedStep Technology	✓
System bus rate	8 GT/s	Intel® Built-in Visuals Technology	✓
Processor cache	6 MB	Intel HD Graphics	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	BGA 1440	Intel Clear Video Technology	✓
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-6700 Mobile series		
Processor codename	Skylake		
Bus type	DMI3		
FSB Parity	✗		
Stepping	R0		

Processor		Processor special features	
Thermal Design Power (TDP)	45 W	Intel® InTru™ 3D Technology	✓
Configurable TDP-down	35 W	Intel® Insider™	✓
Tjunction	100 °C	Intel® Quick Sync Video Technology	✓
Maximum number of PCI Express lanes	16	Intel Flex Memory Access	✓
PCI Express slots version	3.0	Intel® Smart Cache	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® AES New Instructions (Intel® AES-NI)	✓
ECC supported by processor	✗	Intel Trusted Execution Technology	✗
Memory		Intel Enhanced Halt State	✓
Internal memory *	16 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	DDR4-SDRAM	Intel Demand Based Switching	✗
Memory form factor	SO-DIMM	Intel® Secure Key	✓
Memory slots	2x SO-DIMM	Intel TSX-NI	✗
Maximum internal memory *	32 GB	Intel Stable Image Platform Program (SIPP)	✗
Storage		Intel® OS Guard	✓
Total storage capacity *	1,26 TB	Intel Software Guard Extensions (Intel SGX)	✓
Storage media *	HDD+SSD	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	✓
SSD capacity	256 GB	Idle States	✓
Optical drive type *	✗	Thermal Monitoring Technologies	✓
Card reader integrated	✓	Processor package size	42 x 28 mm
Compatible memory cards	SD, SDHC, SDXC	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Graphics		Processor code	SR2FQ
Discrete graphics card model *	NVIDIA® GeForce® GTX 970M	CPU configuration (max)	1
Discrete graphics card memory	3 GB	Embedded options available	✗
Discrete graphics memory type	GDDR5	Graphics & IMC lithography	14 nm
On-board graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card *	✓	Intel Identity Protection Technology version	1,00
On-board graphics card family	Intel® HD Graphics	Intel Smart Response Technology version	1,00
On-board graphics card model *	Intel® HD Graphics 530	Intel Stable Image Platform Program (SIPP) version	0,00
On-board graphics card base frequency	350 MHz	Intel Secure Key Technology version	1,00
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Small Business Advantage (SBA) version	1,00
Maximum on-board graphics card memory	1,7 GB	Intel TSX-NI version	1,00
On-board graphics card DirectX version	12.0	Intel Virtualization Technology (VT-x)	✓
On-board graphics card OpenGL version	4.4	Intel Dual Display Capable Technology	✗
On-board graphics card ID	0x191B	Intel FDI Technology	✗
Graphics card Open GL support	✓	Intel Rapid Storage Technology	✗
NVIDIA G-SYNC	✓	Intel Fast Memory Access	✗
Audio		Processor ARK ID	88967
Audio system	Nahimic sound technology	Conflict-Free processor	✓
Speakers manufacturer	Dynaudio	Battery	
Built-in microphone	✓	Battery technology	Lithium Polymer (LiPo)
Camera		Number of battery cells	6
Front camera	✓	Power	
Front camera resolution	1920 x 1080 pixels	AC adapter power	150 W
Network		AC adapter frequency	50 - 60 Hz
Wi-Fi	✓	DC-in jack	✓
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)		
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Ethernet LAN	✓		
Ethernet LAN data rates	10,1000,100 Mbit/s		

Network		Weight & dimensions	
Bluetooth	✓	Width	390 mm
Bluetooth version	4.1	Depth	266 mm
Ports & interfaces		Height	20,1 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Weight *	2 kg
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1	Packaging content	
Ethernet LAN (RJ-45) ports	1	AC adapter included *	✓
HDMI ports quantity *	1	Manual	✓
HDMI version	1.4	Other features	
Mini DisplayPorts quantity	1	LightScribe	✗
DVI port	✗	3D	✗
Headphone outputs	1		
S/PDIF out port	✗		
Microphone in	✓		
Docking connector	✗		
ExpressCard 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.