



MSI Gaming GS60 6QE(Ghost Pro 4K)-049PH Intel® Core™ i7 i7-6700HQ Laptop 39,6 cm (15.6") 4K Ultra HD 16 GB DDR4-SDRAM 1,12 TB HDD+SSD NVIDIA® GeForce® GTX 970M Wi-Fi 5 (802.11ac) Windows 10 Home Black



Brand : MSI

Product family: Gaming

Product code: GS60
6QE-049PH

Product name : GS60
6QE(Ghost Pro 4K)-049PH

Intel Core i7-6700HQ (6M Cache, 2.60 GHz), 15.6" UHD (3840x2160) LED, 16GB DDR4, 128GB SSD + 1TB SATA HDD, Intel HD Graphics 530 + NVIDIA GeForce GTX 970M 3GB GDDR5, Gigabit Ethernet, WLAN 802.11 ac, Bluetooth, FHD WebCam, Windows 10 Home 64-bit
MSI Gaming GS60 6QE(Ghost Pro 4K)-049PH. 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: 4K Ultra HD, Display resolution: 3840 x 2160 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1,12 TB, Storage media: HDD+SSD. On-board graphics card model: Intel® HD Graphics 530. Operating system installed: Windows 10 Home. 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 *	3840 x 2160 pixels	Motherboard chipset	Intel® HM170
Touchscreen *	✗	Keyboard	
HD type	4K Ultra HD	Pointing device	Touchpad
Panel type	IPS	Numeric keypad *	✓
LED backlight	✓	Keyboard backlit	✓
Native aspect ratio	16:9	Windows keys	✓
Display surface	Matt	Software	
Dual-screen	✗	Operating system architecture	64-bit
Processor		Operating system installed *	Windows 10 Home
Processor manufacturer *	Intel	Processor special features	
Processor family *	Intel® Core™ i7	Intel® Wireless Display (Intel® WiDi)	✓
Processor generation	6th gen Intel® Core™ i7	Intel® My WiFi Technology (Intel® MWT)	✓
Processor model *	i7-6700HQ	Intel® Smart Response Technology	✓
Processor cores	4	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor threads	8	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	3,5 GHz	Intel® Turbo Boost Technology	2.0
Processor frequency *	2,6 GHz	Intel® Small Business Advantage (Intel® SBA)	✓
System bus rate	8 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor cache	6 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache type	Smart Cache	Intel Clear Video Technology	✓
Processor socket	BGA 1440	Intel® InTru™ 3D Technology	✓
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-6700 Mobile series		
Processor codename	Skylake		
Bus type	DMI3		
Stepping	R0		
Thermal Design Power (TDP)	45 W		

Processor		Processor special features	
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® AES New Instructions (Intel® AES-NI)	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Trusted Execution Technology	✗
ECC supported by processor	✗	Intel Enhanced Halt State	✓
Memory		Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory *	16 GB	Intel® Secure Key	✓
Internal memory type	DDR4-SDRAM	Intel TSX-NI	✗
Memory form factor	SO-DIMM	Intel Stable Image Platform Program (SIPP)	✗
Memory slots	2x SO-DIMM	Intel® OS Guard	✓
Maximum internal memory *	32 GB	Intel Software Guard Extensions (Intel SGX)	✓
Storage		Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Total storage capacity *	1,12 TB	Intel 64	✓
Storage media *	HDD+SSD	Execute Disable Bit	✓
Number of HDDs installed	1	Idle States	✓
HDD capacity	1 TB	Thermal Monitoring Technologies	✓
SSD capacity	128 GB	Processor package size	42 x 28 mm
Optical drive type *	✗	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Card reader integrated	✓	Processor code	SR2FQ
Compatible memory cards	SD, SDHC, SDXC	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	NVIDIA® GeForce® GTX 970M	Graphics & IMC lithography	14 nm
Discrete graphics card memory	3 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics memory type	GDDR5	Intel Identity Protection Technology version	1,00
On-board graphics card *	✓	Intel Smart Response Technology version	1,00
Discrete graphics card *	✓	Intel Stable Image Platform Program (SIPP) version	0,00
On-board graphics card model *	Intel® HD Graphics 530	Intel Secure Key Technology version	1,00
On-board graphics card base frequency	350 MHz	Intel Small Business Advantage (SBA) version	1,00
On-board graphics card dynamic frequency (max)	1050 MHz	Intel TSX-NI version	1,00
Maximum on-board graphics card memory	1,7 GB	Intel Virtualization Technology (VT-x)	✓
On-board graphics card DirectX version	12.0	Processor ARK ID	88967
On-board graphics card OpenGL version	4.4	Conflict-Free processor	✓
On-board graphics card ID	0x191B	Battery	
NVIDIA G-SYNC	✓	Battery technology	Lithium Polymer (LiPo)
Audio		Number of battery cells	6
Speakers manufacturer	Dynaudio	Power	
Built-in microphone	✓	AC adapter power	150 W
Camera		AC adapter frequency	50 - 60 Hz
Front camera	✓	DC-in jack	✓
Front camera resolution	1920 x 1080 pixels	Weight & dimensions	
Network		Width	390 mm
Wi-Fi	✓	Depth	266 mm
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Height	20,1 mm
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Weight *	2 kg
Ethernet LAN	✓	Packaging content	
Ethernet LAN data rates	10,1000,100 Mbit/s	AC adapter included *	✓
Bluetooth	✓		
Bluetooth version	4.1		

Ports & interfaces		Packaging content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Manual	✓
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1	Other features	
Ethernet LAN (RJ-45) ports	1	LightScribe	✗
HDMI ports quantity *	1	3D	✗
HDMI version	1.4		
Mini DisplayPorts quantity	1		
DVI port	✗		
Headphone outputs	1		
S/PDIF out port	✗		

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