



**MSI Gaming GS63 8RD-052ES Stealth Intel® Core™ i7 i7-8750H
Laptop 39,6 cm (15.6") Full HD 16 GB DDR4-SDRAM 1,26 TB
HDD+SSD NVIDIA® GeForce® GTX 1050 Ti Wi-Fi 5 (802.11ac)
Windows 10 Home Black**

Brand : MSI

Product family: Gaming

Product code:
9S7-16K612-052

Product name : GS63
8RD-052ES Stealth

Intel Core i7-8750H (9MB Cache, 2.2GHz), 16GB DDR4-SDRAM, 1000GB HDD, 256GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics 630, NVIDIA GeForce GTX 1050 Ti (4GB GDDR5), LAN, WLAN, Bluetooth, Webcam, Windows 10 Home 64-bit
MSI Gaming GS63 8RD-052ES Stealth. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-8750H, Processor frequency: 2.2 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® UHD Graphics 630. Operating system installed: Windows 10 Home. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	USB 2.0 ports quantity *	1
Product colour *	Black	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Form factor *	Clamshell	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Market positioning	Gaming	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display		Ethernet LAN (RJ-45) ports	1
Display diagonal *	39,6 cm (15.6")	HDMI ports quantity *	1
Display resolution *	1920 x 1080 pixels	Mini DisplayPorts quantity	1
Touchscreen *	✗	Headphone outputs	1
HD type	Full HD	Microphone in	✓
LED backlight	✓	Performance	
Native aspect ratio	16:9	Motherboard chipset	Intel® HM370
Dual-screen	✗	Keyboard	
Processor		Pointing device	Touchpad
Processor manufacturer *	Intel	Numeric keypad *	✓
Processor family *	Intel® Core™ i7	Keyboard backlit	✓
Processor generation	8th gen Intel® Core™ i7	Windows keys	✓
Processor model *	i7-8750H	Software	
Processor cores	6	Operating system architecture	64-bit
Processor threads	12	Operating system installed *	Windows 10 Home
Processor boost frequency	4,1 GHz	Processor special features	
Processor frequency *	2,2 GHz	Intel® My WiFi Technology (Intel® MWT)	✓
System bus rate	8 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cache	9 MB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache type	Smart Cache	Intel® Turbo Boost Technology	2.0
Processor socket	BGA 1440	Enhanced Intel SpeedStep Technology	✓
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor codename	Coffee Lake		
Bus type	DMI		
Stepping	U0		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		

Processor		Processor special features	
Configurable TDP-down frequency	1,7 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Tjunction	100 °C	Intel Clear Video Technology	✓
Maximum number of PCI Express lanes	16	Intel® InTru™ 3D Technology	✓
PCI Express slots version	3.0	Intel® Quick Sync Video Technology	✓
PCI Express configurations	1x16, 1x8+2x4, 2x8	Intel Flex Memory Access	✓
ECC supported by processor	✗	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory		Intel Trusted Execution Technology	✗
Internal memory *	16 GB	Intel Enhanced Halt State	✓
Internal memory type	DDR4-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓
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	AVX 2.0, SSE4.1, SSE4.2
Graphics		Processor code	SR3YY
Discrete graphics card model *	NVIDIA® GeForce® GTX 1050 Ti	CPU configuration (max)	1
Discrete graphics card memory	4 GB	Embedded options available	✗
Discrete graphics memory type	GDDR5	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card *	✓	Intel Identity Protection Technology version	1,00
Discrete graphics card *	✓	Intel Stable Image Platform Program (SIPP) version	0,00
On-board graphics card model *	Intel® UHD Graphics 630	Intel Secure Key Technology version	1,00
On-board graphics card base frequency	350 MHz	Intel TSX-NI version	0,00
On-board graphics card dynamic frequency (max)	1100 MHz	Intel Virtualization Technology (VT-x)	✓
Maximum on-board graphics card memory	64 GB	Processor ARK ID	134906
On-board graphics card DirectX version	12.0	Battery	
On-board graphics card OpenGL version	4.5	Number of battery cells	3
On-board graphics card ID	0x3E9B	Battery capacity *	65 Wh
Number of discrete graphics cards installed	1	Power	
CUDA	✓	AC adapter power	150 W
Audio		DC-in jack	✓
Number of built-in speakers	2	Security	
Speaker power	4 W	Cable lock slot	✓
Built-in microphone	✓	Cable lock slot type	Kensington
Camera		Weight & dimensions	
Front camera	✓	Width	380 mm
Front camera signal format	720p	Depth	249 mm
Front camera HD type	HD	Height	17,7 mm
Video capturing speed	30 fps	Weight *	1,89 kg
Network		Packaging content	
Wi-Fi	✓	AC adapter included *	✓
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)		
Wi-Fi standards	Wi-Fi 5 (802.11ac)		
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		

Network		Other features	
Bluetooth	✓	3D	✗
Bluetooth version	5.0		

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