



**MSI Gaming GS63VR 6RF(Stealth Pro 4K)-022NE i7-6700HQ
Notebook 39.6 cm (15.6") 4K Ultra HD Intel® Core™ i7 16 GB
DDR4-SDRAM 2256 GB HDD+SSD NVIDIA® GeForce® GTX 1060
Wi-Fi 5 (802.11ac) Windows 10 Home Black**



Brand : MSI

Product family: Gaming

Product code: GS63VR
6RF-022NE

Product name : GS63VR
6RF(Stealth Pro 4K)-022NE

Intel Core i7-6700HQ (6M Cache, 2.60 GHz), 15.6" UHD (3840x2160) LED, 16GB DDR4, 256GB SSD + 2TB SATA HDD, Intel HD Graphics 530 + NVIDIA GeForce GTX 1060 6GB GDDR5, Gigabit Ethernet, WLAN 802.11ac, Bluetooth, FHD Webcam, Windows 10 Home 64-bit
MSI Gaming GS63VR 6RF(Stealth Pro 4K)-022NE. Product type: Notebook, 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: 2256 GB, 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 *	Notebook	HDMI version	1.4
Product colour *	Black	Mini DisplayPorts quantity	1
Form factor *	Clamshell	DVI port	✗
Market positioning	Gaming	Headphone outputs	1
Display		Microphone in	✓
Display diagonal *	39.6 cm (15.6")	Docking connector	✗
Display resolution *	3840 x 2160 pixels	Charging port type	DC-in jack
Touchscreen *	✗	Performance	
HD type	4K Ultra HD	Virtual Reality (VR) ready	✓
LED backlight	✓	Keyboard	
Native aspect ratio	16:9	Pointing device	Touchpad
Dual-screen	✗	Numeric keypad *	✓
Processor		Keyboard backlit	✓
Processor manufacturer *	Intel	Windows keys	✓
Processor generation	6th gen Intel® Core™ i7	Software	
Processor model *	i7-6700HQ	Operating system architecture	64-bit
Processor family *	Intel® Core™ i7	Operating system installed *	Windows 10 Home
Processor frequency *	2.6 GHz	Processor special features	
Processor boost frequency	3.5 GHz	Intel® Wireless Display (Intel® WiDi)	✓
Processor cores	4	Intel® My WiFi Technology (Intel® MWT)	✓
Processor threads	8	Intel® Smart Response Technology	✓
System bus rate	8 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cache	6 MB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache type	Smart Cache	Intel® Turbo Boost Technology	2.0
Processor socket	BGA 1440	Intel® Small Business Advantage (Intel® SBA)	✓
Processor lithography	14 nm	Enhanced Intel SpeedStep Technology	✓
Processor operating modes	64-bit	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor series	Intel Core i7-6700 Mobile series	Intel Clear Video Technology	✓
Processor codename	Skylake	Intel® InTru™ 3D Technology	✓
Bus type	DMI3		
Stepping	R0		
Motherboard chipset	Intel® HM170		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel® Insider™	✓
PCI Express slots version	3.0	Intel® Quick Sync Video Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	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 *	2256 GB	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	2000 GB	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 1060	CPU configuration (max)	1
On-board graphics card *	✓	Embedded options available	✗
Discrete graphics card *	✓	Graphics & IMC lithography	14 nm
On-board graphics card family	Intel® HD Graphics	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card model *	Intel® HD Graphics 530	Intel Identity Protection Technology version	1.00
On-board graphics card base frequency	350 MHz	Intel Smart Response Technology version	1.00
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Stable Image Platform Program (SIPP) version	0.00
Maximum on-board graphics card memory	1.7 GB	Intel Secure Key Technology version	1.00
On-board graphics card DirectX version	12.0	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card OpenGL version	4.4	Intel TSX-NI version	1.00
On-board graphics card ID	0x191B	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory	6 GB	Processor ARK ID	88967
Discrete graphics memory type	GDDR5	Conflict-Free processor	✓
Number of discrete graphics cards installed	1	Battery	
NVIDIA G-SYNC	✓	Battery technology	Lithium Polymer (LiPo)
NVIDIA GameWorks VR	✓	Number of battery cells	3
CUDA	✓	Power	
NVIDIA 3D Vision	✓	AC adapter power	180 W
Audio		AC adapter frequency	50 - 60 Hz
Number of built-in speakers	4	AC adapter output voltage	19.5 V
Speaker power	8 W	Security	
Built-in microphone	✓	Cable lock slot	✓
Camera		Cable lock slot type	Kensington
Front camera	✓	Weight & dimensions	
Front camera resolution	1920 x 1080 pixels	Width	380 mm
Video capturing speed	30 fps	Depth	249 mm
Network		Height	17.7 mm
Wi-Fi	✓	Weight *	1.8 kg
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	10,100,1000 Mbit/s		

Network		Packaging content	
Bluetooth	✓	Manual	✓
Bluetooth version	4.1		
Ports & interfaces		Other features	
USB 2.0 ports quantity *	1	AC adapter included	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	3D	✗
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1		
Ethernet LAN (RJ-45) ports	1		
HDMI ports quantity *	1		



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