



**MSI Gaming GS43VR 7RE(Phantom Pro)-084CZ Intel® Core™ i7  
i7-7700HQ Laptop 35,6 cm (14") Full HD 16 GB DDR4-SDRAM 1,26  
TB HDD+SSD NVIDIA® GeForce® GTX 1060 Wi-Fi 5 (802.11ac)  
Windows 10 Home Black**



**Brand :** MSI

**Product family:** Gaming

**Product code:** GS43VR  
7RE-084CZ

**Product name :** GS43VR  
7RE(Phantom Pro)-084CZ

Intel Core i7-7700HQ (6M Cache, 2.80 GHz), 14" Full HD (1920x1080) LED, 16GB DDR4, 256GB SSD + 1TB 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 GS43VR 7RE(Phantom Pro)-084CZ. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-7700HQ, Processor frequency: 2,8 GHz. Display diagonal: 35,6 cm (14"), 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 630. Operating system installed: Windows 10 Home. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	DVI port	✗
Product colour *	Black	Headphone outputs	1
Form factor *	Clamshell	Microphone in	✓
Market positioning	Gaming	Docking connector	✗
Display		Performance	
Display diagonal *	35.6 cm (14")	Virtual Reality (VR) ready	✓
Display resolution *	1920 x 1080 pixels	Keyboard	
Touchscreen *	✗	Pointing device	Touchpad
HD type	Full HD	Numeric keypad *	✗
LED backlight	✓	Keyboard backlit	✓
Native aspect ratio	16:9	Windows keys	✓
Processor		Software	
Processor manufacturer *	Intel	Operating system architecture	64-bit
Processor family *	Intel® Core™ i7	Operating system installed *	Windows 10 Home
Processor generation	7th gen Intel® Core™ i7	Processor special features	
Processor model *	i7-7700HQ	Intel® Wireless Display (Intel® WiDi)	✓
Processor cores	4	Intel® My WiFi Technology (Intel® MWT)	✓
Processor threads	8	Intel® Smart Response Technology	✓
Processor boost frequency	3.8 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor frequency *	2.8 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	8 GT/s	Intel® Turbo Boost Technology	2.0
Processor cache	6 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor lithography	14 nm	Intel Clear Video Technology	✓
Processor operating modes	64-bit	Intel® InTru™ 3D Technology	✓
Processor series	Intel Core i7-7700 Mobile Series	Intel® Quick Sync Video Technology	✓
Processor codename	Kaby Lake		
Bus type	DMI3		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		

Processor		Processor special features	
PCI Express slots version	3.0	Intel Flex Memory Access	✓
PCI Express configurations	1x16, 1x8, 2x4, 2x8	Intel® Smart Cache	✓
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	✓
Number of SSDs installed	1	Idle States	✓
SSD capacity	256 GB	Thermal Monitoring Technologies	✓
Optical drive type *	✗	Processor package size	42 x 28 mm
Card reader integrated	✓	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Compatible memory cards	SD, SDHC, SDXC	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	NVIDIA® GeForce® GTX 1060	Graphics & IMC lithography	14 nm
Discrete graphics card memory	6 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 630	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)	1100 MHz	Intel TSX-NI version	0.00
Maximum on-board graphics card memory	64 GB	Intel Virtualization Technology (VT-x)	✓
On-board graphics card DirectX version	12.0	Processor ARK ID	97185
On-board graphics card OpenGL version	4.4	Conflict-Free processor	✓
On-board graphics card ID	0x591B	Battery	
Number of discrete graphics cards installed	1	Battery technology	Lithium Polymer (LiPo)
NVIDIA G-SYNC	✓	Number of battery cells	4
NVIDIA GameWorks VR	✓	Power	
CUDA	✓	AC adapter power	180 W
NVIDIA 3D Vision	✓	AC adapter frequency	50 - 60 Hz
Audio		AC adapter output voltage	19.5 V
Number of built-in speakers	2	DC-in jack	✓
Speaker power	4 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	345 mm
Video capturing speed	30 fps	Depth	245 mm
Network		Height (front)	2.18 cm
Wi-Fi	✓	Height (rear)	2.28 cm
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	✓		

Network		Weight & dimensions	
Ethernet LAN data rates	10,100,1000 Mbit/s	Weight *	1.8 kg
Bluetooth	✓	Packaging content	
Bluetooth version	4.1	AC adapter included *	✓
Ports & interfaces		Manual	✓
		Other features	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	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		
HDMI version	1.4		
Mini DisplayPorts quantity	1		

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