



**MSI Gaming GE62MVR 7RG(Apache Pro)-004CA i7-7700HQ  
Notebook 39,6 cm (15.6") Full HD Intel® Core™ i7 16 GB DDR4-  
SDRAM 1256 GB HDD+SSD NVIDIA® GeForce® GTX 1070 Wi-Fi 5  
(802.11ac) Windows 10 Home Black**



**Brand :** MSI

**Product family:** Gaming

**Product code:** GE62MVR  
7RG-004CA

**Product name :** GE62MVR  
7RG(Apache Pro)-004CA

Intel Core i7-7700HQ (6M Cache, 2.80 GHz), 15.6" Full HD (1920x1080) LED, 16GB DDR4, 256GB SSD + 1TB SATA HDD, Intel HD Graphics 630 + NVIDIA GeForce GTX 1070 8GB GDDR5, Gigabit Ethernet, WLAN 802.11ac, Bluetooth, HD Webcam, Windows 10 Home 64-bit  
MSI Gaming GE62MVR 7RG(Apache Pro)-004CA. Product type: Notebook, Form factor: Clamshell.  
Processor family: Intel® Core™ i7, Processor model: i7-7700HQ, Processor frequency: 2,8 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: 1256 GB, 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 *	Notebook	Ethernet LAN (RJ-45) ports	1
Product colour *	Black	HDMI ports quantity *	1
Form factor *	Clamshell	Mini DisplayPorts quantity	1
Market positioning	Gaming	DVI port	✗
<b>Display</b>		Headphone outputs	1
Display diagonal *	39,6 cm (15.6")	Microphone in	✓
Display resolution *	1920 x 1080 pixels	Docking connector	✗
Touchscreen *	✗	Jenis lubang pengisian	DC-in jack
HD type	Full HD	<b>Performance</b>	
LED backlight	✓	Virtual Reality (VR) ready	✓
Native aspect ratio	16:9	<b>Keyboard</b>	
Dual-screen	✗	Pointing device	Touchpad
<b>Processor</b>		Numeric keypad *	✓
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor generation	7th gen Intel® Core™ i7	Windows keys	✓
Processor model *	i7-7700HQ	<b>Software</b>	
Processor family *	Intel® Core™ i7	Operating system architecture	64-bit
Processor frequency *	2,8 GHz	Operating system installed *	Windows 10 Home
Processor boost frequency	3,8 GHz	<b>Processor special features</b>	
Processor threads	8	Intel® Wireless Display (Intel® WiDi)	✓
System bus rate	8 GT/s	Intel® My WiFi Technology (Intel® MWT)	✓
Processor cores	4	Intel® Smart Response Technology	✓
Processor cache	6 MB	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cache type	Smart Cache	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor lithography	14 nm	Intel® Turbo Boost Technology	2.0
Processor operating modes	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Core i7-7700 Mobile Series	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor codename	Kaby Lake		
Bus type	DMI3		
Motherboard chipset	Intel® HM175		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		

Processor		Processor special features	
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® Smart Cache	✓
<b>Memory</b>		Intel® AES New Instructions (Intel® AES-NI)	✓
Internal memory *	16 GB	Intel Trusted Execution Technology	✗
Internal memory type	DDR4-SDRAM	Intel Enhanced Halt State	✓
Memory clock speed	2400 MHz	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)	✗
<b>Storage</b>		Intel® OS Guard	✓
Total storage capacity *	1256 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 hard drives installed	1	Intel 64	✓
Hard drive capacity	1000 GB	Execute Disable Bit	✓
Solid-state drive 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
<b>Graphics</b>		CPU configuration (max)	1
Discrete graphics card model *	NVIDIA® GeForce® GTX 1070	Embedded options available	✗
On-board graphics card *	✓	Graphics & IMC lithography	14 nm
Discrete graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card model *	Intel® HD Graphics 630	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)	1100 MHz	Intel Stable Image Platform Program (SIPP) version	0,00
Maximum on-board graphics card memory	64 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	0,00
On-board graphics card ID	0x591B	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory	8 GB	Processor ARK ID	97185
Discrete graphics memory type	GDDR5	Conflict-Free processor	✓
Number of discrete graphics cards installed	1	<b>Battery</b>	
NVIDIA G-SYNC	✓	Battery technology	Lithium-Ion (Li-Ion)
NVIDIA GameWorks VR	✓	Number of battery cells	6
CUDA	✓	<b>Power</b>	
<b>Audio</b>		AC adapter power	230 W
Number of built-in speakers	4	AC adapter frequency	50 - 60 Hz
Built-in subwoofer	✓	<b>Weight &amp; dimensions</b>	
Built-in microphone	✓	Width	388 mm
<b>Camera</b>		Depth	265 mm
Front camera	✓	Height (front)	2,7 cm
Front camera resolution	1920 x 1080 pixels	Height (rear)	3,1 cm
Video capturing speed	30 fps	Weight *	2,3 kg
<b>Network</b>		<b>Packaging content</b>	
Wi-Fi	✓	Manual	✓
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		Other features	
Bluetooth	✓	AC adapter included	✓
Bluetooth version	4.1	3D	✗
Ports & interfaces			
USB 2.0 ports quantity *	1		
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2		
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1		



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