



**MSI Gaming GE73 8RF-089BE Raider RGB Intel® Core™ i7
i7-8750H Laptop 43.9 cm (17.3") Full HD 16 GB DDR4-SDRAM 1.51
TB HDD+SSD NVIDIA® GeForce® GTX 1070 Wi-Fi 5 (802.11ac)
Windows 10 Home Black**



Brand : MSI

Product family: Gaming

Product code: GE73
8RF-089BE

Product name : GE73
8RF-089BE Raider RGB

Intel Core i7-8750H (9M Cache, 2.20 GHz), 17.3" Full HD (1920x1080) LED, 16GB DDR4, 512GB SSD + 1TB SATA HDD, Intel UHD Graphics 630 + NVIDIA GeForce GTX 1070 8GB GDDR5, Gigabit Ethernet, WLAN 802.11ac, Bluetooth, HD Webcam, Windows 10 Home 64-bit
MSI Gaming GE73 8RF-089BE Raider RGB. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor: i7-8750H, Processor frequency: 2.2 GHz. Display diagonal: 43.9 cm (17.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1.51 TB, Storage media: HDD+SSD. On-board graphics card model: Intel® UHD Graphics 630. Operating system installed: Windows 10 Home. Product colour: Black



Design		Network	
Product type *	Laptop	Bluetooth version	5.0
Product colour *	Black	Ports & interfaces	
Form factor *	Clamshell	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Market positioning	Gaming	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Display		USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display diagonal *	43.9 cm (17.3")	Ethernet LAN (RJ-45) ports quantity	1
Display resolution *	1920 x 1080 pixels	HDMI ports quantity *	1
Touch screen *	✗	Mini DisplayPort quantity	1
HD type	Full HD	Headphone outputs	1
LED backlight	✓	Microphone in	✓
Native aspect ratio	16:9	Keyboard	
Processor		Pointing device	Touchpad
Processor manufacturer *	Intel	Numeric keypad *	✓
Processor family *	Intel® Core™ i7	Keyboard backlight	✓
Processor generation	8th gen Intel® Core™ i7	Full-size keyboard	✓
Processor *	i7-8750H	Windows keys	✓
Processor number of cores	6	Keyboard layout	AZERTY
Processor threads	12	Software	
Processor boost frequency	4.1 GHz	Operating system architecture	64-bit
Processor frequency *	2.2 GHz	Operating system installed *	Windows 10 Home
System bus data transfer rate	8 GT/s	Processor special features	
Processor cache	9 MB	Intel My WiFi Technology	✓
Processor cache type	Smart Cache	Intel Identity Protection Technology	✓
Processor socket	BGA 1440	Intel Hyper-Threading Technology	✓
Processor lithography	14 nm	Intel Turbo Boost Technology	2.0
Processor operating modes	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor codename	Coffee Lake	Intel Clear Video HD Technology	✓
Bus type	DMI		
Stepping	U0		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Configurable TDP-down frequency	1.7 GHz		

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 AES New Instructions	✓
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 *	1.51 TB	Intel Software Guard Extensions (Intel SGX)	✓
Storage media *	HDD+SSD	Intel Clear Video Technology for MID	✓
Number of hard drives installed	1	Intel 64	✓
Hard drive capacity	1 TB	Execute Disable Bit	✓
Solid-state drive capacity	512 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 1070	CPU configuration (max)	1
Discrete graphics card memory	8 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	6
On-board graphics card ID	0x3E9B	Battery capacity *	51 Wh
Number of discrete graphics cards installed	1	Energy Management	
NVIDIA G-SYNC	✓	AC adapter power	230 W
CUDA	✓	DC-in jack	✓
Audio		Security	
Number of built-in speakers	2	Cable lock slot	✓
Speaker power	6 W	Cable lock slot type	Kensington
Built-in subwoofer	✓	Weight & Dimensions	
Built-in microphone	✓	Width	419.2 mm
Camera		Depth	287.1 mm
Front camera	✓	Height	30.1 mm
Front camera signal format	720p	Weight *	2.89 kg
Front camera HD type	HD	Packaging Content	
Video capturing speed	30 fps	AC adapter bundled *	✓
Network		Other features	
Wi-Fi	✓	3D compatibility	✗
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	On/off button	✓
Wi-Fi standards	Wi-Fi 5 (802.11ac)		
Ethernet LAN connection	✓		

Network

Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✓



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