



**MSI Gaming GT75 8RG-045UK Titan Intel® Core™ i7 i7-8750H  
Laptop 43,9 cm (17.3") Full HD 32 GB DDR4-SDRAM 1,26 TB  
HDD+SSD NVIDIA® GeForce® GTX 1080 Windows 10 Home Black**

**Brand :** MSI

**Product family:** Gaming

**Product code:**  
9S7-17A311-045

**Product name :** GT75  
8RG-045UK Titan

Intel Core i7-8750H (9M Cache, 2.20 GHz), 17.3" Full HD (1920x1080) LED, 32GB DDR4, 2 x 128GB SSD + 1TB SATA HDD, Intel UHD Graphics 630 + NVIDIA GeForce GTX 1080 8GB GDDR5X, Gigabit Ethernet, WLAN 802.11ac, Bluetooth, FHD Webcam, Windows 10 Home 64-bit

MSI Gaming GT75 8RG-045UK Titan. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: 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: 32 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 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	5
Product colour *	Black	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Form factor *	Clamshell	Ethernet LAN (RJ-45) ports	1
Market positioning	Gaming	HDMI ports quantity *	1
Display		Headphone outputs	1
Display diagonal *	43,9 cm (17.3")	S/PDIF out port	✓
Display resolution *	1920 x 1080 pixels	Microphone in	✓
Touchscreen *	✗	Line-in	✓
HD type	Full HD	Keyboard	
LED backlight	✓	Pointing device	Touchpad
Native aspect ratio	16:9	Numeric keypad *	✓
Dual-screen	✗	Keyboard backlit	✓
Processor		Windows keys	✓
Processor manufacturer *	Intel	Software	
Processor family *	Intel® Core™ i7	Operating system architecture	64-bit
Processor generation	8th gen Intel® Core™ i7	Operating system installed *	Windows 10 Home
Processor model *	i7-8750H	Processor special features	
Processor cores	6	Intel® My WiFi Technology (Intel® MWT)	✓
Processor threads	12	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	4,1 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor frequency *	2,2 GHz	Intel® Turbo Boost Technology	2.0
System bus rate	8 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor cache	9 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache type	Smart Cache	Intel Clear Video Technology	✓
Processor socket	BGA 1440	Intel® InTru™ 3D 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® Quick Sync Video Technology	✓
Tjunction	100 °C	Intel Flex Memory Access	✓
Maximum number of PCI Express lanes	16	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express slots version	3.0	Intel Trusted Execution Technology	✗
PCI Express configurations	1x16, 1x8+2x4, 2x8	Intel Enhanced Halt State	✓
ECC supported by processor	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Memory		Intel® Secure Key	✓
Internal memory *	32 GB	Intel TSX-NI	✗
Internal memory type	DDR4-SDRAM	Intel Stable Image Platform Program (SIPP)	✗
Memory form factor	SO-DIMM	Intel® OS Guard	✓
Memory slots	4x SO-DIMM	Intel Software Guard Extensions (Intel SGX)	✓
Maximum internal memory *	64 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Storage		Intel 64	✓
Total storage capacity *	1,26 TB	Execute Disable Bit	✓
Storage media *	HDD+SSD	Idle States	✓
Number of HDDs installed	1	Thermal Monitoring Technologies	✓
HDD capacity	1 TB	Processor package size	42 x 28 mm
Number of SSDs installed	2	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
SSD capacity	128 GB	Processor code	SR3YY
Optical drive type *	✗	CPU configuration (max)	1
Card reader integrated	✓	Embedded options available	✗
Compatible memory cards	SD, SDHC, SDXC	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel Identity Protection Technology version	1,00
Discrete graphics card model *	NVIDIA® GeForce® GTX 1080	Intel Stable Image Platform Program (SIPP) version	0,00
Discrete graphics card memory	8 GB	Intel Secure Key Technology version	1,00
Discrete graphics memory type	GDDR5X	Intel TSX-NI version	0,00
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✓	Processor ARK ID	134906
On-board graphics card model *	Intel® UHD Graphics 630	Battery	
On-board graphics card base frequency	350 MHz	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card dynamic frequency (max)	1100 MHz	Number of battery cells	8
Maximum on-board graphics card memory	64 GB	Battery capacity *	90 Wh
On-board graphics card DirectX version	12.0	Power	
On-board graphics card OpenGL version	4.5	AC adapter power	330 W
On-board graphics card ID	0x3E9B	DC-in jack	✓
Number of discrete graphics cards installed	1	Security	
NVIDIA GameWorks VR	✓	Cable lock slot	✓
CUDA	✓	Cable lock slot type	Kensington
Audio		Weight & dimensions	
Number of built-in speakers	2	Width	428 mm
Speaker power	3 W	Depth	314 mm
Built-in subwoofer	✓	Height (front)	3,1 cm
Built-in microphone	✓	Height (rear)	5,8 cm
Camera		Weight *	4,56 kg
Front camera	✓	Packaging content	
Front camera signal format	1080p	AC adapter included *	✓
Front camera HD type	Full HD	Other features	
Video capturing speed	30 fps	3D	✗
Network			
Wi-Fi	✓		
Wi-Fi standards	Wi-Fi 5 (802.11ac)		

Network		Other features	
Ethernet LAN	✓	On/off button	✓
Ethernet LAN data rates	10,100,1000,10000 Mbit/s		
Bluetooth	✓		
Bluetooth version	5.0		



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