



MSI Gaming Thin GF63 12VF-297UK Laptop 39.6 cm (15.6") Full HD Intel® Core™ i5 i5-12450H 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 4060 Wi-Fi 6 (802.11ax) Windows 11 Black

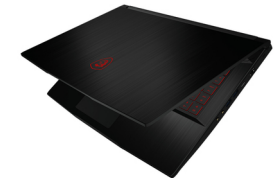
Brand : MSI

Product family: Gaming

Product code: THIN GF63 12VF-297UK



Product name : Thin GF63 12VF-297UK



- Windows 11
 - Intel Core i5-12450H (12MB Cache)
 - 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce RTX 4060 (8GB GDDR6)
 - 16GB (3200MHz) DDR4-SDRAM (2 x 8) & 512GB SSD
 Intel Core i5-12450H (12MB Cache), 16GB DDR4-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics, NVIDIA GeForce RTX 4060 (8GB GDDR6), LAN, WLAN, Webcam, Windows 11 MSI Gaming Thin GF63 12VF-297UK. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-12450H. 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: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4060. Operating system installed: Windows 11. Product colour: Black



Design		Audio	
Product type *	Laptop	Number of built-in speakers	2
Product colour *	Black	Speakers manufacturer	Nahimic
Form factor *	Clamshell	Speaker power	2 W
Display		Camera	
Display diagonal *	39.6 cm (15.6")	Front camera	✓
Display resolution *	1920 x 1080 pixels	Front camera HD type	HD
Touchscreen *	✗	Video capturing speed	30 fps
HD type	Full HD	Network	
Display brightness	250 cd/m ²	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Maximum refresh rate	144 Hz	Wi-Fi standards	Wi-Fi 6 (802.11ax)
Processor		Mobile network connection *	✗
Processor manufacturer *	Intel	WLAN controller model	Intel Wi-Fi 6 AX201
Processor generation	12th gen Intel® Core™ i5	Ethernet LAN	✓
Processor family *	Intel® Core™ i5	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor model *	i5-12450H	Bluetooth	✓
Processor boost frequency	4.4 GHz	Bluetooth version	5.2
Efficient-core Max Turbo Frequency	3.3 GHz	Ports & interfaces	
Performance-core Max Turbo Frequency	4.4 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Processor cores	8	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Performance cores	4	Ethernet LAN (RJ-45) ports	1
Efficient cores	4	HDMI ports quantity *	1
Processor cache	12 MB	Headphone outputs	1
Processor cache type	Smart Cache	Microphone in	✓
Motherboard chipset	Intel HM670	Keyboard	
Configurable TDP-down	35 W	Pointing device	Touchpad
Processor base power	45 W	Numeric keypad *	✗
Maximum turbo power	95 W	Keyboard backlit	✓
Memory		Keyboard backlit colour	Red
Internal memory *	16 GB		
Internal memory type	DDR4-SDRAM		
Memory clock speed	3200 MHz		

Memory		Software	
Memory layout (slots x size)	2 x 8 GB	Operating system installed *	Windows 11
Maximum internal memory *	64 GB		MSI System Control Manager MSI BurnRecovery MSI Remind Manager MSI Battery Calibration MSI Help Desk Norton Internet Security (trial 60days) Norton Studio (Metro) (permanent free) Nvidia GeForce Experience Microsoft Office 2016 (trial 30 days, 1 year per purchase) True Color 2.0 Nahimic 3 Dragon Center 2.0
Storage		Bundled software	
Total storage capacity *	512 GB		
Storage media *	SSD		
Total SSDs capacity	512 GB		
Number of SSDs installed	1		
SSD capacity	512 GB		
SSD interface	PCI Express 4.0		
NVMe	✓		
Optical drive type *	✗		
Graphics		Processor special features	
Discrete GPU manufacturer	NVIDIA	Intel Flex Memory Access	✓
Discrete graphics card model *	NVIDIA GeForce RTX 4060	Intel VT-x with Extended Page Tables (EPT)	✓
On-board graphics card *	✓	Execute Disable Bit	✓
On-board GPU manufacturer	Intel	CPU configuration (max)	1
Discrete graphics card *	✓	Embedded options available	✗
On-board graphics card family	Intel® UHD Graphics	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card model *	Intel® UHD Graphics	Intel Virtualization Technology (VT- x)	✓
Discrete graphics card memory	8 GB	Battery	
Discrete graphics memory type	GDDR6	Number of battery cells	3
Audio		Battery capacity *	51 Wh
Audio system	NAHIMIC 3	Power	
		AC adapter power	120 W
		Weight & dimensions	
		Width	359 mm
		Depth	254 mm
		Height	21.7 mm
		Weight *	1.86 kg



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