



MSI Gaming THIN GF63 12VE-437US laptop Intel® Core™ i5 i5-12450H Computadora portátil 39.6 cm (15.6") Full HD 8 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6 (802.11ax) Windows 11 Home Negro

Marca : MSI

Familia de productos:
Gaming

Código del producto: THIN
GF63 12VE-437US



Nombre del producto : THIN
GF63 12VE-437US



MSI Gaming THIN GF63 12VE-437US. Tipo de producto: Computadora portátil, Factor de forma: Concha. Familia de procesador: Intel® Core™ i5, Modelo del procesador: i5-12450H. Diagonal de la pantalla: 39.6 cm (15.6"), Tipo HD: Full HD, Resolución de la pantalla: 1920 x 1080 Píxeles. Memoria interna: 8 GB, Tipo de memoria interna: DDR4-SDRAM. Capacidad total de almacenaje: 512 GB, Unidad de almacenamiento: SSD. Modelo de gráficos en tarjeta: Intel® UHD Graphics, Modelo de adaptador de gráficos discretos: NVIDIA GeForce RTX 4050. Sistema operativo instalado: Windows 11 Home. Color del producto: Negro

Design		Audio	
Product type *	Laptop	Speaker power	2 W
Product colour *	Black	Camera	
Form factor *	Clamshell	Front camera	✓
Market positioning	Gaming	Front camera HD type	HD
Display		Video capturing speed	30 fps
Display diagonal *	39.6 cm (15.6")	Network	
Display resolution *	1920 x 1080 pixels	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Touchscreen *	✗	Wi-Fi standards	Wi-Fi 6 (802.11ax)
HD type	Full HD	Mobile network connection *	✗
Native aspect ratio	16:9	WLAN controller model	Intel Wi-Fi 6 AX201
Maximum refresh rate	144 Hz	Ethernet LAN	✓
Processor		Ethernet LAN data rates	10,100,1000 Mbit/s
Processor manufacturer *	Intel	Bluetooth	✓
Processor family *	Intel® Core™ i5	Bluetooth version	5.2
Processor generation	12th gen Intel® Core™ i5	Ports & interfaces	
Processor model *	i5-12450H	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
Processor boost frequency	4.4 GHz	Ethernet LAN (RJ-45) ports	1
Performance cores	4	HDMI ports quantity *	1
Efficient cores	4	Headphone outputs	1
Performance-core Max Turbo Frequency	4.4 GHz	Microphone in	✓
Efficient-core Max Turbo Frequency	3.3 GHz	Performance	
Processor cache	12 MB	Motherboard chipset	Intel HM670
Processor cache type	Smart Cache	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 *	8 GB		
Internal memory type	DDR4-SDRAM		
Memory clock speed	4800 MHz		
Memory form factor	SO-DIMM		

Memory		Software	
Memory layout (slots x size)	1 x 8 GB	Operating system installed *	Windows 11 Home
Memory slots	2x SO-DIMM		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
Maximum internal memory *	64 GB	Bundled software	
Storage		Processor special features	
Total storage capacity *	512 GB	Intel Flex Memory Access	✓
Storage media *	SSD	Intel VT-x with Extended Page Tables (EPT)	✓
Total SSDs capacity	512 GB	Execute Disable Bit	✓
Number of SSDs installed	1	CPU configuration (max)	1
SSD capacity	512 GB	Embedded options available	✗
SSD interface	PCI Express 4.0	Intel Virtualization Technology for Directed I/O (VT-d)	✓
NVMe	✓	Intel Virtualization Technology (VT-x)	✓
Optical drive type *	✗	Battery	
Graphics		Number of battery cells	3
Discrete GPU manufacturer	NVIDIA	Battery capacity *	51 Wh
Discrete graphics card model *	NVIDIA GeForce RTX 4050	Power	
Discrete graphics card memory	6 GB	AC adapter power	120 W
Discrete graphics memory type	GDDR6	DC-in jack	✓
On-board graphics card *	✓	Security	
Discrete graphics card *	✓	Cable lock slot	✓
On-board graphics card family	Intel® UHD Graphics	Cable lock slot type	Kensington
On-board graphics card model *	Intel® UHD Graphics	Weight & dimensions	
Audio		Width	359 mm
Audio system	NAHIMIC 3	Depth	254 mm
Number of built-in speakers	2	Height	21.7 mm
Speakers manufacturer	Nahimic	Weight *	1.86 kg



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