



MSI Gaming Thin GF63 12VE-023FR Intel® Core™ i5 i5-12450H Laptop 39,6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6 (802.11ax) Windows 11 Home Black

Brand : MSI

Product family: Gaming

Article code: THIN GF63
12VE-023FR

Product name : Thin GF63
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MSI Gaming Thin GF63 12VE-023FR. 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 4050. Operating system installed: Windows 11 Home. Product color: Black



Design		Graphics	
Product type *	Laptop	Graphics card Open GL support	✓
Product colour *	Black	Audio	
Form factor *	Clamshell	Audio system	Nahimic 3
Market positioning	Gaming	Number of built-in speakers	2
Original brand name	MSI	Speaker power	2 W
Display		Camera	
Display diagonal *	39.6 cm (15.6")	Front camera	✓
Display resolution *	1920 x 1080 pixels	Front camera resolution	1280 x 720 pixels
Touchscreen *	✗	Front camera HD type	HD
HD type	Full HD	Video capturing speed	30 fps
Panel type	IPS	Network	
Native aspect ratio	16:9	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Anti-glare screen	✓	Wi-Fi standards	Wi-Fi 6 (802.11ax)
Display diagonal (metric)	39.6 cm	Mobile network connection *	✗
RGB colour space	NTSC	WLAN controller model	Intel Wi-Fi 6 AX201
Colour gamut	45%	WLAN controller manufacturer	Intel
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		
Performance-core Max Turbo Frequency	4.4 GHz		

Processor		Ports & interfaces	
Efficient-core Max Turbo Frequency	3.3 GHz	Headphone outputs	1
Processor cache	12 MB	Microphone in	✓
Processor cache type	Smart Cache	Charging port type	DC-in jack
Configurable TDP-down	35 W	USB Type-C DisplayPort Alternate Mode	✓
Memory		Performance	
Internal memory *	16 GB	Motherboard chipset	Intel HM670
Internal memory type	DDR4-SDRAM	Keyboard	
Memory clock speed	3200 MHz	Pointing device	Touchpad
Memory form factor	SO-DIMM	Numeric keypad *	✗
Memory layout (slots x size)	2 x 8 GB	Keyboard backlit	✓
Memory slots	2x SO-DIMM	Keyboard backlit colour	Red
Maximum internal memory *	64 GB	Software	
Storage		Operating system installed *	Windows 11 Home
Total storage capacity *	512 GB	Processor special features	
Storage media *	SSD	Intel Flex Memory Access	✓
Total SSDs capacity	512 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Number of SSDs installed	1	Execute Disable Bit	✓
SSD capacity	512 GB	CPU configuration (max)	1
SSD interface	PCI Express 4.0	Embedded options available	✗
NVMe	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Optical drive type *	✗	Intel Virtualization Technology (VT-x)	✓
Graphics		Battery	
Discrete GPU manufacturer	NVIDIA	Battery technology	Lithium Polymer (LiPo)
Discrete graphics card model *	NVIDIA GeForce RTX 4050	Number of battery cells	3
Discrete graphics card memory	6 GB	Battery capacity *	51 Wh
Discrete graphics memory type	GDDR6	Power	
On-board graphics card *	✓	AC adapter power	120 W
On-board GPU manufacturer	Intel	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	
On-board graphics card 4K support	✓	Width	359 mm
On-board graphics card 6K support	✓	Depth	254 mm
		Height	21.7 mm
		Weight *	1.86 kg



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