



MSI Gaming Thin GF63 12VE-063CA 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

Product code: THIN GF63 12VE-063CA

Product name : Thin GF63 12VE-063CA

- Windows 11 Home
- Intel Core i5-12450H (12MB Cache)
- 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce RTX 4050 (6GB 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 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home

MSI Gaming Thin GF63 12VE-063CA. 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 colour: Black



Design		Network	
Product type *	Laptop	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Product colour *	Black	Wi-Fi standards	Wi-Fi 6 (802.11ax)
Form factor *	Clamshell	Mobile network connection *	✗
Display		Antenna type	2x2
Display diagonal *	39.6 cm (15.6")	WLAN controller model	Intel Wi-Fi 6 AX201
Display resolution *	1920 x 1080 pixels	WLAN controller manufacturer	Intel
Touchscreen *	✗	Ethernet LAN	✓
HD type	Full HD	Ethernet LAN data rates	10,100,1000 Mbit/s
RGB colour space	NTSC	Bluetooth	✓
Colour gamut	45%	Bluetooth version	5.2
Maximum refresh rate	144 Hz	Ports & interfaces	
Processor		USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor manufacturer *	Intel	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Processor family *	Intel® Core™ i5	Ethernet LAN (RJ-45) ports	1
Processor generation	12th gen Intel® Core™ i5	HDMI ports quantity *	1
Processor model *	i5-12450H	Headphone outputs	1
Processor cores	8	Microphone in	✓
Processor boost frequency	4.4 GHz	Performance	
Processor cache	12 MB	Motherboard chipset	Intel HM670
Configurable TDP-down	35 W	Keyboard	
Memory		Pointing device	Touchpad
Internal memory *	16 GB	Numeric keypad *	✗
Internal memory type	DDR4-SDRAM	Keyboard backlit	✓
Memory clock speed	3200 MHz	Keyboard backlit colour	Red
Memory layout (slots x size)	2 x 8 GB	Software	
Maximum internal memory *	64 GB	Operating system installed *	Windows 11 Home
Storage			
Total storage capacity *	512 GB		
Storage media *	SSD		
Total SSDs capacity	512 GB		
Number of SSDs installed	1		

Storage		Software	
SSD capacity	512 GB	Bundled software	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
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 4050	Intel VT-x with Extended Page Tables (EPT)	✓
Discrete graphics card memory	6 GB	Execute Disable Bit	✓
Discrete graphics memory type	GDDR6	CPU configuration (max)	1
On-board graphics card *	✓	Embedded options available	✗
On-board GPU manufacturer	Intel	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® UHD Graphics		
Audio		Battery	
Audio system	NAHIMIC 3	Battery technology	Lithium Polymer (LiPo)
Number of built-in speakers	2	Number of battery cells	3
Speakers manufacturer	Nahimic	Battery capacity *	51 Wh
Speaker power	2 W		
Camera		Power	
Front camera	✓	AC adapter power	120 W
Front camera HD type	HD		
Video capturing speed	30 fps	Weight & dimensions	
		Width	359 mm
		Depth	254 mm
		Height	21.7 mm
		Weight *	1.86 kg



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Publication date: 28-APR-2024. Prints or copies of Information are only valid on the printed Publication date