



MSI Gaming Thin GF63 12VE-424UK Laptop 39.6 cm (15.6") Full HD Intel® Core™ i5 i5-12450H 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-424UK



Product name : Thin GF63 12VE-424UK



- 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-424UK. 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		Graphics	
Product type *	Laptop	Discrete graphics memory type	GDDR6
Product colour *	Black	Audio	
Form factor *	Clamshell	Audio system	NAHIMIC 3
Display		Number of built-in speakers	2
Display diagonal *	39.6 cm (15.6")	Speakers manufacturer	Nahimic
Display resolution *	1920 x 1080 pixels	Speaker power	2 W
Touchscreen *	✘	Camera	
HD type	Full HD	Front camera	✓
Display brightness	250 cd/m ²	Front camera HD type	HD
Maximum refresh rate	144 Hz	Video capturing speed	30 fps
Processor		Network	
Processor manufacturer *	Intel	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Processor generation	12th gen Intel® Core™ i5	Wi-Fi standards	Wi-Fi 6 (802.11ax)
Processor family *	Intel® Core™ i5	Mobile network connection *	✘
Processor model *	i5-12450H	WLAN controller model	Intel Wi-Fi 6 AX201
Processor boost frequency	4.4 GHz	Ethernet LAN	✓
Efficient-core Max Turbo Frequency	3.3 GHz	Ethernet LAN data rates	10,100,1000 Mbit/s
Performance-core Max Turbo Frequency	4.4 GHz	Bluetooth	✓
Processor cores	8	Bluetooth version	5.2
Performance cores	4	Ports & interfaces	
Efficient cores	4	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Processor cache	12 MB	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Processor cache type	Smart Cache	Ethernet LAN (RJ-45) ports	1
Motherboard chipset	Intel HM670	HDMI ports quantity *	1
Configurable TDP-down	35 W	Headphone outputs	1
Processor base power	45 W	Microphone in	✓
Maximum turbo power	95 W		

Memory		Keyboard	
Internal memory *	16 GB	Pointing device	Touchpad
Internal memory type	DDR4-SDRAM	Numeric keypad *	✗
Memory clock speed	3200 MHz	Keyboard backlit	✓
Memory layout (slots x size)	2 x 8 GB	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	Number of battery cells	3
Discrete graphics card model *	NVIDIA GeForce RTX 4050	Battery capacity *	51 Wh
On-board graphics card *	✓	Power	
On-board GPU manufacturer	Intel	AC adapter power	120 W
Discrete graphics card *	✓	Weight & dimensions	
On-board graphics card family	Intel® UHD Graphics	Width	359 mm
On-board graphics card model *	Intel® UHD Graphics	Depth	254 mm
Discrete graphics card memory	6 GB	Height	21.7 mm
		Weight *	1.86 kg



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