



# MSI Gaming Thin GF63 12VE-049UK Intel® Core™ i5 i5-12450H Laptop 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 Black



Brand : MSI

Product family: Gaming

Product code: THIN GF63 12VE-049UK

Product name : Thin GF63 12VE-049UK

- 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)  
- 8GB (3200MHz) DDR4-SDRAM & 512GB SSD  
Intel Core i5-12450H (12MB Cache), 8GB 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-049UK. 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: 8 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



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

<b>Memory</b>		<b>Software</b>	
Internal memory *	8 GB	Operating system installed *	Windows 11 Home
Internal memory type	DDR4-SDRAM	<b>Processor special features</b>	
Memory clock speed	3200 MHz	Intel Flex Memory Access	✓
Maximum internal memory *	64 GB	Intel VT-x with Extended Page Tables (EPT)	✓
<b>Storage</b>		Execute Disable Bit	✓
Total storage capacity *	512 GB	CPU configuration (max)	1
Storage media *	SSD	Embedded options available	✗
Total SSDs capacity	512 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of SSDs installed	1	Intel Virtualization Technology (VT-x)	✓
SSD capacity	512 GB	<b>Battery</b>	
SSD interface	PCI Express 4.0	Battery technology	Lithium Polymer (LiPo)
NVMe	✓	Number of battery cells	3
Optical drive type *	✗	Battery capacity *	52.4 Wh
<b>Graphics</b>		<b>Power</b>	
Discrete GPU manufacturer	NVIDIA	AC adapter power	120 W
Discrete graphics card model *	NVIDIA GeForce RTX 4050	<b>Weight &amp; dimensions</b>	
On-board graphics card *	✓	Width	359 mm
On-board GPU manufacturer	Intel	Depth	254 mm
Discrete graphics card *	✓	Height	21.7 mm
On-board graphics card family	Intel® UHD Graphics	Weight *	1.86 kg
On-board graphics card model *	Intel® UHD Graphics	<b>Packaging data</b>	
Discrete graphics card memory	6 GB	Package width	477 mm
Discrete graphics memory type	GDDR6	Package depth	89 mm
<b>Audio</b>		Package height	328 mm
Number of built-in speakers	2	Package weight	0.4 g
Speaker power	2 W	Package volume	12032 cm <sup>3</sup>
<b>Camera</b>		<b>Logistics data</b>	
Front camera	✓	Commodity Classification Automated Tracking System (CCATS)	8471300000



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