



MSI Gaming Thin GF63 12VF-294UK Intel® Core™ i7 i7-12650H Laptop 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 4060 Wi-Fi 6 (802.11ax) Windows 11 Home Black



Brand : MSI

Product family: Gaming

Product code: THIN GF63 12VF-294UK

Product name : Thin GF63 12VF-294UK

- Windows 11 Home
- Intel Core i7-12650H (24MB Cache)
- 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce RTX 4060 (8GB GDDR6)
- 16GB (3200MHz) DDR4-SDRAM (2 x 8) & 512GB SSD
- Intel Core i7-12650H (24MB Cache), 16GB DDR4-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics, NVIDIA GeForce RTX 4060 (8GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home

MSI Gaming Thin GF63 12VF-294UK. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-12650H. 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 4060. Operating system installed: Windows 11 Home. Product colour: Black



Design		Camera	
Product type *	Laptop	Front camera	✓
Product colour *	Black	Front camera HD type	HD
Form factor *	Clamshell	Video capturing speed	30 fps
Display		Network	
Display diagonal *	39.6 cm (15.6")	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Display resolution *	1920 x 1080 pixels	Wi-Fi standards	Wi-Fi 6 (802.11ax)
Touchscreen *	✗	Mobile network connection *	✗
HD type	Full HD	Antenna type	2x2
Native aspect ratio	16:9	WLAN controller model	Intel Wi-Fi 6 AX201
Anti-glare screen	✓	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	✓
Processor		Bluetooth version	5.2
Processor manufacturer *	Intel	Ports & interfaces	
Processor family *	Intel® Core™ i7	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Processor generation	12th gen Intel® Core™ i7	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Processor model *	i7-12650H	Ethernet LAN (RJ-45) ports	1
Processor cores	10	HDMI ports quantity *	1
Processor boost frequency	4.7 GHz	Headphone outputs	1
Performance cores	6	Microphone in	✓
Efficient cores	4	USB Type-C DisplayPort Alternate Mode	✓
Performance-core Max Turbo Frequency	4.7 GHz	Performance	
Efficient-core Max Turbo Frequency	3.5 GHz	Motherboard chipset	Intel SoC
Processor cache	24 MB		
Processor cache type	Smart Cache		
Configurable TDP-down	35 W		

Processor		Keyboard	
Processor base power	45 W	Pointing device	Touchpad
Maximum turbo power	115 W	Numeric keypad *	✗
Memory		Keyboard backlit	✓
Internal memory *	16 GB	Keyboard backlit colour	Red
Internal memory type	DDR4-SDRAM	Software	
Memory clock speed	3200 MHz	Operating system installed *	Windows 11 Home
Memory layout (slots x size)	2 x 8 GB	Processor special features	
Maximum internal memory *	64 GB	Intel Flex Memory Access	✓
Storage		Intel VT-x with Extended Page Tables (EPT)	✓
Total storage capacity *	512 GB	Execute Disable Bit	✓
Storage media *	SSD	CPU configuration (max)	1
Total SSDs capacity	512 GB	Embedded options available	✗
Number of SSDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD capacity	512 GB	Intel Virtualization Technology (VT-x)	✓
SSD interface	PCI Express 4.0	Battery	
NVMe	✓	Battery technology	Lithium Polymer (LiPo)
Optical drive type *	✗	Number of battery cells	3
Graphics		Battery capacity *	52.4 Wh
Discrete GPU manufacturer	NVIDIA	Power	
Discrete graphics card model *	NVIDIA GeForce RTX 4060	AC adapter power	120 W
Discrete graphics card memory	8 GB	Weight & dimensions	
Discrete graphics memory type	GDDR6	Width	359 mm
On-board graphics card *	✓	Depth	254 mm
On-board GPU manufacturer	Intel	Height	21.7 mm
Discrete graphics card *	✓	Weight *	1.86 kg
On-board graphics card family	Intel® UHD Graphics	Packaging data	
On-board graphics card model *	Intel® UHD Graphics	Package width	477 mm
Audio		Package depth	89 mm
Audio system	NAHIMIC 3	Package height	328 mm
Number of built-in speakers	2	Logistics data	
Speakers manufacturer	Nahimic	Commodity Classification Automated Tracking System (CCATS)	8471300000
Speaker power	2 W		



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