



**MSI Thin 15 B12VE-1251UK 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 6E (802.11ax) Windows 11 Home Grey**

**Brand :** MSI

**Product family:** Thin

**Product code:** THIN 15  
B12VE-1251UK

**Product name :** Thin 15  
B12VE-1251UK



- 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 Thin 15 B12VE-1251UK. 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: Grey



Design		Graphics	
Colour name	Cosmos Gray	On-board graphics card family	Intel® UHD Graphics
Product type *	Laptop	On-board graphics card model *	Intel® UHD Graphics
Product colour *	Grey	<b>Audio</b>	
Form factor *	Clamshell	Audio system	Nahimic 3
<b>Display</b>		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 *	✗	<b>Camera</b>	
HD type	Full HD	Front camera	✓
Native aspect ratio	16:9	Front camera resolution	1280 x 720 pixels
Anti-glare screen	✓	Front camera HD type	HD
Display brightness	144 cd/m <sup>2</sup>	Video capturing speed	30 fps
Maximum refresh rate	144 Hz	<b>Network</b>	
<b>Processor</b>		Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor manufacturer *	Intel	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Processor family *	Intel® Core™ i5	Mobile network connection *	✗
Processor generation	12th gen Intel® Core™ i5	WLAN controller model	Intel Wi-Fi 6E AX211
Processor model *	i5-12450H	WLAN controller manufacturer	Intel
Processor cores	8	Ethernet LAN	✓
Processor threads	12	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor boost frequency	4.4 GHz	Bluetooth	✓
Performance cores	4	<b>Ports &amp; interfaces</b>	
Efficient cores	4	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Performance-core Max Turbo Frequency	4.4 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Efficient-core Max Turbo Frequency	3.3 GHz	Ethernet LAN (RJ-45) ports	1
Processor cache	12 MB	HDMI ports quantity *	1
Processor cache type	Smart Cache		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Processor base power	45 W	Combo headphone/mic port	✓
Maximum turbo power	95 W	<b>Keyboard</b>	
<b>Memory</b>		Pointing device	Touchpad
Internal memory *	16 GB	Numeric keypad *	✗
Internal memory type	DDR4-SDRAM	Keyboard backlit	✓
Memory clock speed	3200 MHz	Keyboard backlit colour	Blue
Memory layout (slots x size)	2 x 8 GB	<b>Software</b>	
Memory slots	2x SO-DIMM	Operating system installed *	Windows 11 Home
Maximum internal memory *	64 GB	<b>Battery</b>	
<b>Storage</b>		Number of battery cells	3
Total storage capacity *	512 GB	Battery capacity *	52.4 Wh
Storage media *	SSD	<b>Power</b>	
Total SSDs capacity	512 GB	AC adapter power	120 W
Number of SSDs installed	1	<b>Security</b>	
SSD capacity	512 GB	Cable lock slot	✓
SSD interface	PCI Express 4.0	Cable lock slot type	Kensington
NVMe	✓	Trusted Platform Module (TPM)	✓
SSD form factor	M.2	Trusted Platform Module (TPM) version	2.0
Optical drive type *	✗	<b>Weight &amp; dimensions</b>	
<b>Graphics</b>		Width	359 mm
Discrete GPU manufacturer	NVIDIA	Depth	254 mm
Discrete graphics card model *	NVIDIA GeForce RTX 4050	Height	21.7 mm
Discrete graphics card memory	6 GB	Weight *	1.86 kg
Discrete graphics memory type	GDDR6	<b>Packaging data</b>	
On-board graphics card *	✓	Package width	466 mm
On-board GPU manufacturer	Intel	Package depth	88 mm
Discrete graphics card *	✓	Package height	318 mm
		<b>Logistics data</b>	
		Commodity Classification Automated Tracking System (CCATS)	8471300000



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