msi

MSI Pulse 17 B13VGK-696UK Intel® Core™ i9 i9-13900H Laptop 43.9 cm (17.3") Full HD 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4070 Wi-Fi 6 (802.11ax) Windows 11 Home Grey

Brand : MSI

Product family: Pulse

Product code: PULSE 17 B13VGK-696UK

Product name : Pulse 17 B13VGK-696UK

- Windows 11 Home
- Intel Core i9-13900H (24MB Cache)
- 43.9 cm (17.3") Full HD 1920 x 1080, NVIDIA GeForce RTX 4070 (8GB GDDR6)
- 16GB (5200MHz) DDR5-SDRAM (2 x 8) & 1000GB SSD

Intel Core i9-13900H (24MB Cache), 16GB DDR5-SDRAM, 1000GB SSD, 43.9 cm (17.3") Full HD 1920 x 1080, Intel Iris Xe Graphics, NVIDIA GeForce RTX 4070 (8GB GDDR6), WLAN, Webcam, Windows 11 Home

MSI Pulse 17 B13VGK-696UK. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-13900H. Display diagonal: 43.9 cm (17.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4070. Operating system installed: Windows 11 Home. Product colour: Grey

Design

Colour name	Titanium Gray
Product type *	Laptop
Product colour *	Grey
Form factor *	Clamshell

Display

Display diagonal *	43.9 cm (17.3")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✘
HD type	Full HD
Display brightness	250 cd/m²
Maximum refresh rate	144 Hz

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i9
Processor generation	13th gen Intel® Core™ i9
Processor model *	i9-13900H
Processor cores	14
Processor boost frequency	5.4 GHz
Performance cores	6
Efficient cores	8
Performance-core Max Turbo Frequency	5.4 GHz
Efficient-core Max Turbo Frequency	4.1 GHz
Efficient-core boost frequency	3.7 GHz
Processor cache	24 MB
Processor cache type	Smart Cache
Configurable TDP-down	35 W
Processor base power	45 W

Audio

Number of built-in speakers	2
Speakers manufacturer	Nahimic
Speaker power	2 W

Camera

Front camera	✔
Front camera HD type	HD
Video capturing speed	30 fps

Network

Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Wi-Fi standards	Wi-Fi 6 (802.11ax)
Mobile network connection *	✘
WLAN controller model	Intel Wi-Fi 6 AX201
Bluetooth	✔
Bluetooth version	5.2

Ports & interfaces

USB 2.0 ports quantity *	1
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔

Performance

Motherboard chipset	Intel HM770

Processor

Maximum turbo power	115 W

Memory

Internal memory *	16 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	5200 MHz
Memory layout (slots x size)	2 x 8 GB
Maximum internal memory *	64 GB

Storage

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express 4.0
NVMe	✓
Optical drive type *	✘

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 4070
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✓
Discrete graphics card *	✓
On-board graphics card model *	Intel Iris Xe Graphics

Audio

Audio system	NAHIMIC 3

Keyboard

Pointing device	Touchpad
Numeric keypad *	✓
Keyboard backlit	✓
Keyboard backlit colour	RGB
Keyboard backlit zone	4-zone RGB

Software

Operating system installed *	Windows 11 Home

Processor special features

Intel Flex Memory Access	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Execute Disable Bit	✓
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel Virtualization Technology (VT-x)	✓

Battery

Number of battery cells	4
Battery capacity *	90 Wh

Power

AC adapter power	240 W

Weight & dimensions

Width	398 mm
Depth	273 mm
Height	27.2 mm
Weight *	2.7 kg

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