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MSI Summit E16 AI Evo A1MTG 019US Intel Core Ultra 5 125H Hybrid (2-in-1) 40.6 cm (16") Touchscreen Quad HD+ 16 GB LPDDR5-SDRAM 512 GB SSD Wi-Fi 7 (802.11be) Windows 11 Home Black

Brand : MSI

Product family: Summit

Product code: SUMMIT E16 AI EVO A1MTG-019US

Product name : Summit E16 AI Evo A1MTG 019US

- Windows 11 Home
- Intel Core Ultra 5 125H (18MB Cache)
- 40.6 cm (16") Quad HD+ 2560 x 1600 Touch
- 16GB (6400MHz) LPDDR5-SDRAM & 512GB SSD

Intel Core Ultra 5 125H (18MB Cache), 16GB LPDDR5-SDRAM, 512GB SSD, 40.6 cm (16") Quad HD+ 2560 x 1600 Touch, Intel Arc Graphics, WLAN, Webcam, Windows 11 Home
MSI Summit E16 AI Evo A1MTG 019US. Product type: Hybrid (2-in-1), Form factor: Convertible (Folder). Processor family: Intel Core Ultra 5, Processor model: 125H. Display diagonal: 40.6 cm (16"), HD type: Quad HD+, Display resolution: 2560 x 1600 pixels, Touchscreen. Internal memory: 16 GB, Internal memory type: LPDDR5-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics. Operating system installed: Windows 11 Home. Product colour: Black

Design

Colour name	Ink Black
Product type *	Hybrid (2-in-1)
Product colour *	Black
Form factor *	Convertible (Folder)

Display

Display diagonal *	40.6 cm (16")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✔
HD type	Quad HD+
Native aspect ratio	16:10
RGB colour space	DCI-P3
Colour gamut	100%
Maximum refresh rate	165 Hz

Processor

Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 5
Processor generation	Intel® Core™ Ultra (Series 1)
Processor model *	125H
Processor cores	14
Processor threads	18
Processor boost frequency	4.5 GHz
Performance cores	4
Efficient cores	8
Low Power Efficient-cores	2
Performance-core Max Turbo Frequency	4.5 GHz
Efficient-core Max Turbo Frequency	3.6 GHz

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✖
On-board graphics card family	Intel Arc Graphics
On-board graphics card model *	Intel Arc Graphics

Audio

Audio system	Nahimic 3D
Number of built-in speakers	2
Speaker power	2 W
Built-in microphone	✔
Number of microphones	3

Camera

Front camera	✔
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Video capturing speed	30 fps
Infrared (IR) camera	✔
Privacy type	Privacy shutter

Network

Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Wi-Fi standards	Wi-Fi 7 (802.11be)
Mobile network connection *	✖
Ethernet LAN	✖
Bluetooth	✔
Bluetooth version	5.4

Processor

Low Power Efficient-core Max Turbo Frequency	2.5 GHz
Performance-core base frequency	1.2 GHz
Efficient-core base frequency	0.7 GHz
Low Power Efficient-core Base Frequency	700 MHz
Processor cache	18 MB
Processor cache type	Smart Cache
Processor base power	28 W
Maximum turbo power	115 W

Neural processor unit (NPU)

Neural processor unit (NPU)	Intel AI Boost
Maximum frequency NPU	1.4 GHz
Sparsity support	✔
Windows Studio effects support	✔
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML

Memory

Internal memory *	16 GB
Internal memory type	LPDDR5-SDRAM
Memory clock speed	6400 MHz
Memory form factor	On-board
Maximum internal memory *	16 GB

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD interface	PCI Express 4.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	MicroSD (TransFlash)

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
HDMI ports quantity *	1
HDMI version	2.1
Thunderbolt 4 ports quantity	2
Intel® Thunderbolt 4	✔
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔

Performance

Ambient light sensor	✔
Accelerometer	✔
Proximity sensor	✔
Gyroscope	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔
Keyboard backlit colour	White

Software

Operating system installed *	Windows 11 Home

Battery

Number of battery cells	4
Battery capacity *	82 Wh

Power

AC adapter power	100 W
DC-in jack	✔

Security

Fingerprint reader	✔
Trusted Platform Module (TPM)	✔
Trusted Platform Module (TPM) version	2.0

Weight & dimensions

Width	358 mm
Depth	258.6 mm
Height (front)	1.69 cm
Height (rear)	1.74 cm
Weight *	2.1 kg

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