msi

MSI Cubi NUC AI 1UMG i5 125H BB Cube Black FCBGA2049 1.2 GHz

Brand : MSI

Product family: Cubi

Product code: CUBI NUC AI 1UMG I5 125H BB

Product name : Cubi NUC AI 1UMG i5 125H BB

- Up to Intel® CoreTM Ultra 5 processor 125H with Intel® AI Boost NPU
- Supports DDR5 5200MHz memory
- Supports 1x M.2 2280 SSD (PCIE, factory pre-installed), 1x M.2 2242 SSD (PCIE)
- Quadruple monitor support (Thunderbolt 4, HDMI 2.1)
- 1 x USB 10GbpsType-C port front, 2 x USB 10GbpsType-A ports front
- MSI Power Link support
- MSI Power Meter software
- Dual 2.5G LAN, Wi-fi 6E AX211 & BT 5.3

MSI Cubi NUC AI 1UMG Intel Core Ultra 5 125H, Barebone, NUC AI 1UMG, SFF, Mini Computer, HTPC, (NO RAM, NO Storage, NO OS), Intel Graphics/DDR5/Dual ThunderBolt 4/Dual HDMI/Dual LAN/WiFi 6E/BT 5.3/VESA

MSI Cubi NUC AI 1UMG i5 125H BB. Chassis type: Cube, Product type: Mini PC barebone. Processor socket: FCBGA2049. Supported memory types: GDDR5, Number of memory slots: 2, Maximum internal memory: 64 GB. Supported storage drive types: SSD, Storage drive interface: PCI Express. Ethernet LAN (RJ-45) ports: 1. Wi-Fi standards: Wi-Fi 6E (802.11ax), Bluetooth version: 5.2. Cooling type: Passive. Power supply: 120 W

Processor		Processor special features	
Processor manufacturer	Intel	Intel® AES New Instructions (Intel® AES-NI)	✔
Processor family	Intel Core Ultra 5		
Processor model	125H	Intel® Quick Sync Video Technology	✔
Processor cores	14	Intel® InTru™ 3D Technology	✖
Processor threads	18	Intel® Insider™	✖
Processor boost frequency	4.5 GHz	Intel® Wireless Display (Intel® WiDi)	✖
Processor frequency	1.2 GHz		
Performance cores	4	Intel FDI Technology	✖
Efficient cores	8	Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Low Power Efficient-cores	2		
Performance-core Max Turbo Frequency	4.5 GHz	Intel® Turbo Boost Technology	✔
Efficient-core Max Turbo Frequency	3.5 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Performance-core base frequency	1.2 GHz		
Low Power Efficient-core Base Frequency	800 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✔
Built-in processor *	✔	Intel VT-x with Extended Page Tables (EPT)	✔
Processor lithography	7 nm		
Processor cache	18 MB	Intel 64	✔
L2 cache	10 MB	Intel® My WiFi Technology (Intel® MWT)	✖
L3 cache	8 MB		
Thermal Design Power (TDP)	28 W	Idle States	✔
ECC supported by processor	✖	Enhanced Intel SpeedStep Technology	✔
		Intel Demand Based Switching	✔
		Thermal Monitoring Technologies	✔

Memory

Memory slots type *	SO-DIMM
Number of memory slots *	2
Maximum internal memory	64 GB
Supported memory clock speeds	5200 MHz
Supported memory types	GDDR5
Memory channels	Dual-channel
ECC	✗
Non-ECC	✔

Storage

Supported storage drive types *	SSD
Storage drive sizes supported *	M.2
Storage drive interface	PCI Express
NVMe	✔
Number of storage drives supported	2
Card reader integrated	✗

Audio

Built-in speaker(s) *	✗

Network

Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
WLAN controller model	Intel Wi-Fi 6E AX211
Ethernet LAN *	✔
Wi-Fi *	✔
LAN controller	Intel I226-V
Bluetooth	✔
Bluetooth version	5.2
Near Field Communication (NFC)	✗
Bluetooth Low Energy (BLE)	✔

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
HDMI ports quantity *	2
HDMI version	2.1
Ethernet LAN (RJ-45) ports *	1
Thunderbolt ports quantity	2
Thunderbolt 4 ports quantity	2
DC-in jack	✗

Expansion slots

Number of M.2 (M) slots	2

Design

Chassis type *	Cube
Product colour *	Black
Cooling type *	Passive
On/off switch	✔
VESA mounting	✔
Panel mounting interface	100 x 100 mm
Product type *	Mini PC barebone

Performance

Processor socket	FCBGA2049
Number of processors supported	1
Supported processor frequency (max)	4.5 GHz
Trusted Platform Module (TPM) version	2.0

Processor special features

Intel Fast Memory Access	✗
Intel Flex Memory Access	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel Trusted Execution Technology	✗
Execute Disable Bit	✔
Intel® Smart Cache	✔
Intel Visual BIOS	✗
Intel Express BIOS update	✗
Intel TSX-NI	✗
Intel® Matrix Storage Technology (Intel® MST)	✗
Intel Smart Connect Technology	✗
Intel® Small Business Advantage (Intel® SBA)	✗
Intel® Secure Key	✔
Intel® Smart Response Technology	✗
Intel Stable Image Platform Program (SIPP)	✗
Intel® OS Guard	✔
Conflict-Free	✔
Intel® Rapid Start Technology	✗
Intel Advanced Management Technology	✗
Intel Clear Video Technology	✔
Intel® Unite™	✗
Intel Unite installed	✗
Intel® Optane™ Memory Ready	✗
Intel® Platform Trust Technology (Intel® PTT)	✔
Intel Virtualization Technology (VT-x)	✔

Technical details

PSTI certified	✗
Not classified as hazardous under GHS	✗

Certificates

Waste Electrical and Electronic Equipment (WEEE) compliance	✔

Software

Windows operating systems supported	✔
Linux operating systems supported	✔
Operating system installed	✗

Power

Power supply type *	External AC adapter
Power supply	120 W
Number of power supply units	1
AC input voltage	100 - 240 V
AC input frequency	50/60 Hz

Operational conditions

Operating temperature (T-T)	0 - 35 °C
Storage temperature (T-T)	-20 - 60 °C
Operating relative humidity (H-H)	0 - 85%
Storage relative humidity (H-H)	0 - 90%

Weight & dimensions

Width	119.6 mm

Performance

Commodity Classification Automated Tracking System (CCATS)	740.17B1
Export Control Classification Number (ECCN)	5A992.C

Processor special features

Intel® vPro™ Platform Eligibility	✘
Intel On-Demand Power Redundancy Technology	✘
Intel® High Definition Audio (Intel® HD Audio)	✔
Embedded options available	✘
Intel Dual Display Capable Technology	✔
Intel® Virtualization Technology (Intel® VT)	✔
Intel Rapid Storage Technology	✔
Intel® Anti-Theft Technology (Intel® AT)	✘

Weight & dimensions

Depth	115.2 mm
Height	37.5 mm
Package width	205 mm
Package depth	220 mm
Package height	94 mm

Packaging content

Power cord included	✔
AC adapter included	✘
Quick start guide	✘
Drivers included	✘
Display included	✘
Mouse included	✘
Keyboard included	✘

Other features

Country of origin	China
Warranty period	3 year(s)

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