



## MSI Cubi NUC 13MQG Intel Core i5 1345U vPRO Barebone, NUC, SFF, Mini Computer, HTPC, (NO RAM, NO Storage, NO OS), vPRO/Intel Graphics/DDR5/Dual ThunderBolt 4/Dual HDMI/Dual LAN/WiFi 6E/BT 5.3/VESA

**Brand :** MSI

**Product family:** Cubi

**Product code:** CUBI NUC  
13MQG I5 1345U VPRO BB

**Product name :** MSI Cubi NUC  
13MQG Intel Core i5 1345U  
vPRO Barebone, NUC, SFF, Mini  
Computer, HTPC, (NO RAM, NO  
Storage, NO OS), vPRO/Intel  
Graphics/DDR5/Dual  
ThunderBolt 4/Dual HDMI/Dual  
LAN/WiFi 6E/BT 5.3/VESA

MSI Cubi NUC 13MQG Intel Core i5 1345U vPRO Barebone, NUC, SFF, Mini Computer, HTPC, (NO RAM, NO Storage, NO OS), vPRO/Intel Graphics/DDR5/Dual ThunderBolt 4/Dual HDMI/Dual LAN/WiFi 6E/BT 5.3/VESA

MSI Cubi NUC 13MQG Intel Core i5 1345U vPRO Barebone, NUC, SFF, Mini Computer, HTPC, (NO RAM, NO Storage, NO OS), vPRO/Intel Graphics/DDR5/Dual ThunderBolt 4/Dual HDMI/Dual LAN/WiFi 6E/BT 5.3/VESA. Chassis type: 0.84L sized PC, Product type: Mini PC barebone. Motherboard chipset: Intel SoC. Supported memory types: DDR5-SDRAM, Number of memory slots: 2, Maximum internal memory: 64 GB. Supported storage drive types: SSD, Storage drive interface: M.2, Serial ATA, Serial ATA II, Serial ATA III. Ethernet LAN (RJ-45) ports: 2. Wi-Fi standards: Wi-Fi 6E (802.11ax), Bluetooth version: 5.3. Cooling type: Active. Power supply: 120 W



| Processor                            |                          | Ports & interfaces                    |                      |
|--------------------------------------|--------------------------|---------------------------------------|----------------------|
| Processor manufacturer               | Intel                    | USB charging                          | ✗                    |
| Processor family                     | Intel® Core™ i5          | TV-out                                | ✗                    |
| Processor generation                 | 13th gen Intel® Core™ i5 | Thunderbolt 4 ports quantity          | 2                    |
| Processor cores                      | 10                       | DC-in jack                            | ✓                    |
| Processor threads                    | 12                       | Expansion slots                       |                      |
| Processor boost frequency            | 4.7 GHz                  | Number of M.2 (M) slots               | 2                    |
| Processor frequency                  | 3.5 GHz                  | Design                                |                      |
| Performance cores                    | 2                        | Chassis type *                        | 0.84L sized PC       |
| Efficient cores                      | 8                        | Product colour *                      | Black                |
| Performance-core Max Turbo Frequency | 4.7 GHz                  | Cooling type *                        | Active               |
| Efficient-core Max Turbo Frequency   | 3.5 GHz                  | On/off switch                         | ✓                    |
| Built-in processor *                 | ✓                        | LED indicators                        | System               |
| Processor lithography                | 10 nm                    | Housing material                      | Plastic              |
| L2 cache                             | 1.25 MB                  | Cable lock slot                       | ✓                    |
| L3 cache                             | 12 MB                    | Cable lock slot type                  | Kensington           |
| Thermal Design Power (TDP)           | 15 W                     | VESA mounting                         | ✓                    |
| Memory                               |                          | Panel mounting interface              | 75 x 75,100 x 100 mm |
| Memory slots type *                  | SO-DIMM                  | Product type *                        | Mini PC barebone     |
| Number of memory slots *             | 2                        | Performance                           |                      |
| Maximum internal memory              | 64 GB                    | Motherboard form factor               | NUC                  |
| Supported memory clock speeds        | 5200 MHz                 | Motherboard chipset                   | Intel SoC            |
| Supported memory types               | DDR5-SDRAM               | Number of processors supported        | 1                    |
| Memory channels                      | Dual-channel             | Trusted Platform Module (TPM)         | ✓                    |
| Storage                              |                          | Trusted Platform Module (TPM) version | 2.0                  |
| Supported storage drive types *      | SSD                      | Processor special features            |                      |
| Storage drive sizes supported *      | 2.5,M.2                  | Intel® vPro™ Platform Eligibility     | ✓                    |
| SSD form factor                      | M.2                      |                                       |                      |

| Storage                                           |                                                | Processor special features                   |                                                                                                               |
|---------------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Storage drive interface                           | M.2, Serial ATA, Serial ATA II, Serial ATA III | Intel® Virtualization Technology (Intel® VT) | VT-x                                                                                                          |
| NVMe                                              | ✓                                              | Intel® Anti-Theft Technology (Intel® AT)     | ✓                                                                                                             |
| Number of storage drives supported                | 3                                              | Intel® AES New Instructions (Intel® AES-NI)  | ✓                                                                                                             |
| Card reader integrated                            | ✓                                              | Intel Virtualization Technology (VT-x)       | ✓                                                                                                             |
| Compatible memory cards                           | MicroSD (TransFlash)                           |                                              |                                                                                                               |
| Graphics                                          |                                                | Software                                     |                                                                                                               |
| On-board graphics card *                          | ✓                                              | Windows operating systems supported          | Windows 11, Windows 11 Enterprise, Windows 11 Enterprise x64, Windows 11 Home, Windows 11 Pro, Windows 11 x64 |
| Graphics card family                              | Intel                                          | Operating system installed                   | ✗                                                                                                             |
| On-board graphics card model                      | Intel Graphics                                 |                                              |                                                                                                               |
| Number of displays supported                      | 4                                              |                                              |                                                                                                               |
| Audio                                             |                                                | Sustainability                               |                                                                                                               |
| Built-in speaker(s) *                             | ✗                                              | Sustainability certificates                  | ENERGY STAR, Forest Stewardship Council (FSC), Post-Consumer Recycled Plastic                                 |
| Network                                           |                                                | Power                                        |                                                                                                               |
| Top Wi-Fi standard                                | Wi-Fi 6E (802.11ax)                            | Power supply type *                          | External AC adapter                                                                                           |
| Wi-Fi standards                                   | Wi-Fi 6E (802.11ax)                            | Power supply                                 | 120 W                                                                                                         |
| WLAN controller model                             | Intel Wi-Fi 6E AX211                           | Number of power supply units                 | 1                                                                                                             |
| Ethernet LAN *                                    | ✓                                              | AC input voltage                             | 100 - 240 V                                                                                                   |
| Copper ethernet cabling technology                | 2.5GBASE-T                                     | AC input frequency                           | 50/60 Hz                                                                                                      |
| Wi-Fi *                                           | ✓                                              |                                              |                                                                                                               |
| LAN controller                                    | Intel I226-V                                   |                                              |                                                                                                               |
| Bluetooth                                         | ✓                                              |                                              |                                                                                                               |
| Bluetooth version                                 | 5.3                                            |                                              |                                                                                                               |
| Near Field Communication (NFC)                    | ✗                                              |                                              |                                                                                                               |
| Ports & interfaces                                |                                                | Weight & dimensions                          |                                                                                                               |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4                                              | Width                                        | 132.5 mm                                                                                                      |
| HDMI ports quantity *                             | 2                                              | Depth                                        | 135.6 mm                                                                                                      |
| HDMI version                                      | 1.4b/2.0b                                      | Height                                       | 50.1 mm                                                                                                       |
| DVI port                                          | ✗                                              | Weight                                       | 0.625 g                                                                                                       |
| Microphone in                                     | ✗                                              | Package width                                | 205 mm                                                                                                        |
| Combo headphone/mic port                          | ✓                                              | Package depth                                | 220 mm                                                                                                        |
| Ethernet LAN (RJ-45) ports *                      | 2                                              | Package height                               | 94 mm                                                                                                         |
| S/PDIF out port                                   | ✗                                              | Package weight                               | 1.45 g                                                                                                        |
| CardBus PCMCIA slot type                          | ✗                                              |                                              |                                                                                                               |
| Consumer infrared headers                         | ✗                                              |                                              |                                                                                                               |
| Serial port via internal header                   | ✗                                              |                                              |                                                                                                               |
|                                                   |                                                | 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                                                                                                         |
|                                                   |                                                | Introduction month                           | October                                                                                                       |
|                                                   |                                                | Introduction year                            | 2024                                                                                                          |
|                                                   |                                                | Warranty period                              | 3 year(s)                                                                                                     |



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