

# AIB-SQ67-A1

## Features

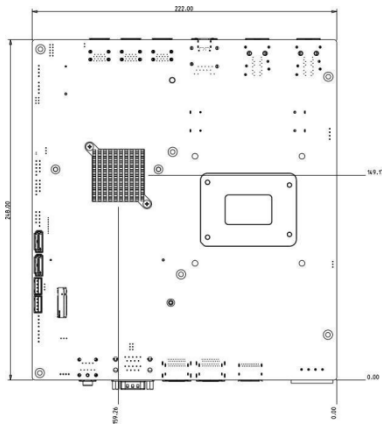
- Supports Intel® 12/13th Gen Core i7/i5 processors, TDP under 125W
- Intel® Q670E Chipset
- 5x DP++ (Support MST), 1 from Integrated Graphic, 4 from MXM graphic card
- 5x 2.5G RJ45 LAN Ports
- 6x USB 3.2 Gen 2x1 Type-A
- 1x USB 3.2 Gen 2x2 Type-C
- 2x M.2 M-Key NVME Gen 4x4/SATA



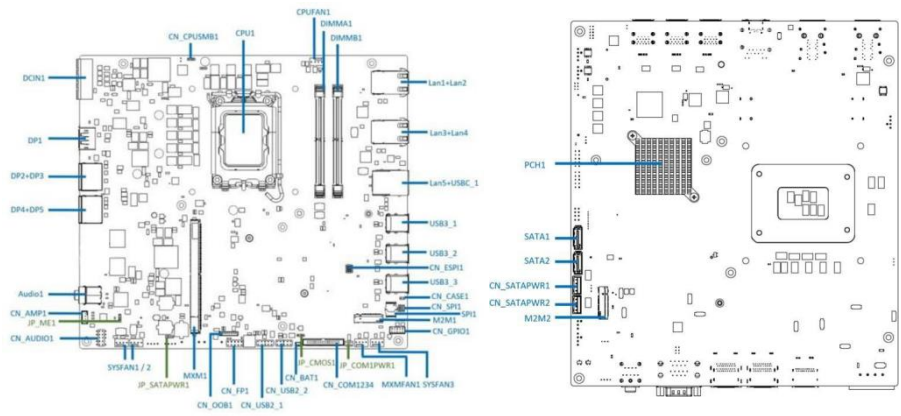
## Specifications

Model Number	AIB-SQ67-A1
CPU	Intel LGA1700 Socket Alder Lake-S processors. Support up to 125W processor
Chipset	Intel® Q670E Chipset
GPU Card (Optional)	MXM Type A, Type B, Type B+
System Memory	DDR5 SO-DIMM up to 32GB/Per DIMM, up to 4800MHz 64G
Graphics	<p>Controller: Intel UHD Graphics 770 driven by Xe Architecture</p> <p>OpenGL 4.5, DirectX 12, OpenCL 1.2, Vulkan 1.1</p> <p>HW Decode:</p> <p>8K60 12b 4:2:0 HEVC/VP9/SCC</p> <p>8K30 10b 4:2:0 AV1</p> <p>5K60 10b 4:4:4 HEVC/VP9/SCC</p> <p>4K60 8b 4:2:0 AVC</p> <p>HW Encode:</p> <p>8K30 or 5K60 8b/10b 4:2:0 HEVC/VP9/SCC</p> <p>4K60 10b 4:4:4 HEVC/VP9/SCC</p> <p>4K60 8b 4:2:0 AVC</p> <p>DP++: 5x DP++ (1 from CPU, 4 from MXM), resolution up to 4K @60Hz</p>
Front I/O	<p>6 x USB 3.2 Gen 2x1 Type-A</p> <p>1 x USB 3.2 Gen 2x2 (20G) USB Type C Connector</p> <p>5 x RJ45 LAN Connector (1+4), 2.5G bps</p>
Rear I/O	<p>4 x Display Port (DP++, From MXM Port A/B/C/D)</p> <p>1 x Display Port (DP++, From CPU)</p> <p>1 x Line-out, 1 x Mic-in</p>
Internal I/O	<p>4 x USB 2.0 (Pin Header 2 x 5P, 2.54mm pitch)</p> <p>2 x SATA 3.0 (up to 6Gb/s)</p> <p>4 x RS232/RS485/RS422 (COM1 ~ 4), default RS232 by bios setting</p> <p>2 x M.2 M Key for storage</p> <p>1 x 8-bit GPIO</p>
Expansion Slot	<p>1 x MXM type B+</p> <p>2 x M.2 2280 M Key (PCIe/SATA)</p>
Watchdog Timer	<p>Output: System reset</p> <p>Interval: Programmable from 1 to 255 Seconds</p>
Security	TPM 2.0
Power Input/Connector	DC-in 24V/4-pin Terminal Block

### Dimension



### Board Layout



### Ordering Information

Model Number	Description
AIB-SQ67-A1	Q670E MXM M/B, Support 5x LAN, 6x USB, 5x DP, 1x Type-C USB, Audio, DC 24V, 0~60°C(W/ Terminal Plug、MXM Screws and SATA Cable)

### Accessory(Optional)

Part No.	Item	Description
01-I51250-IZ00	CPU	CPU INTEL:I5-12500E
01-I71270-IZ00	CPU	CPU INTEL:I7-12700E
39-S17878-0000	CPU cooler	LGA-1700 12V 4PIN L:200mm 6000RPM 90*90*61.5mm ALUMINUM (Support 65W CPU)
53-0C4800-0002	D-RAM	DDR5 SO-DIMM 4800 MT/s 16GB 0~95°C
53-0C4800-0000	D-RAM	DDR5 SO-DIMM 4800 MT/s 32GB 0~95°C
53-0C3TE7-0008	Storage	SATA III 2.5" SATA SSD 1T 3TE7 3D TLC 0~70°C BICS 4
53-0C3TE7-000B	Storage	SATA III 2.5" SATA SSD 1T 3TE7 3D TLC 0~70°C BICS 5
53-0FHR60-0000	Adapter	Power Adapter MW:HRP-600-24
32-010000-0005	Power cord	US Power Cord SVT 18AWG Cable 1800mm Black 105 °C
32-010000-0006	Power cord	EU Power Cord H05VV-F 0.75mm <sup>2</sup> /3G SL-6+SL-3 Cable 1800mm Black