

uATX-Q870A (MQ870AM)

Micro-ATX with Intel® Q870 Chipset, support Intel® Core™ Ultra processors (Series 2), Dual channel DDR5 memory, PCIe, 4 x COM, 16 x USB, 4 x SATA 6Gb/s, TPM on board



Features

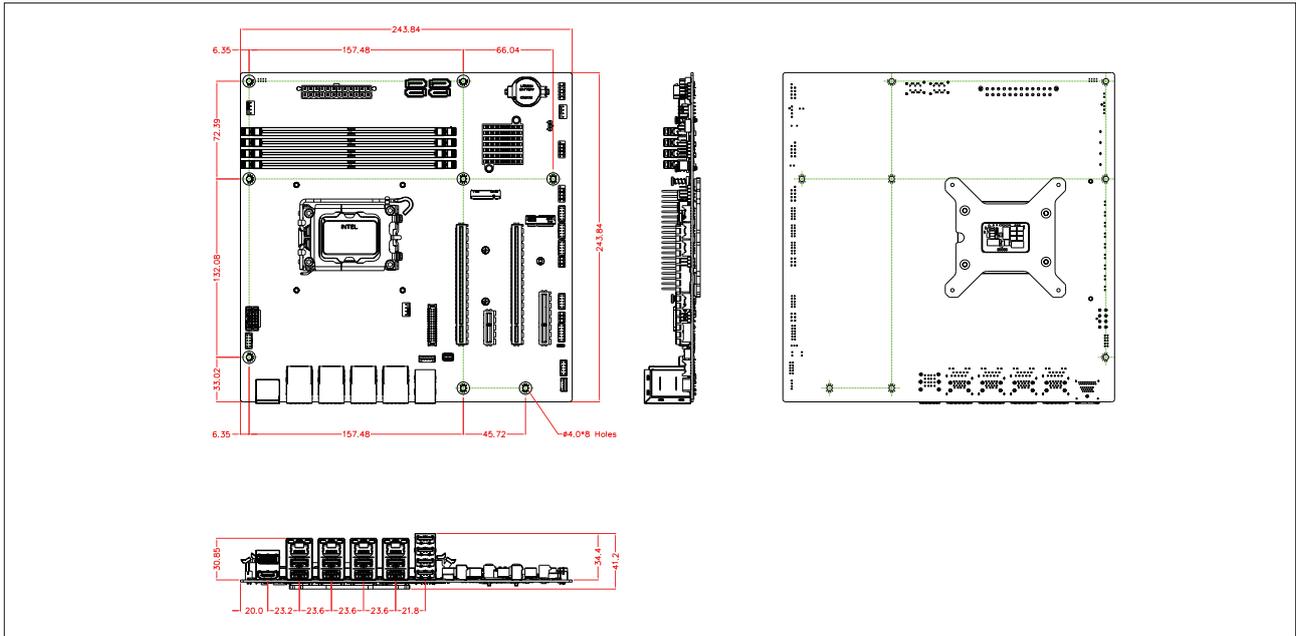
- Micro ATX form factor
- Support Intel® Core™ Ultra processors (Series 2)
- Intel® Q870 Chipset
- Dual Channel DDR5, 4 x DIMMs
- 4 x 2.5GbE LAN Ports
- 4 x SATA 6Gb/s Ports
- Up to 4 x PCIe expansion slots
- 16 x USB Ports
- 2 x COM Port (RS-232/422/485 & RI/5V/12V)
- 2 x COM Ports (RS-232)
- TPM on board

Specifications

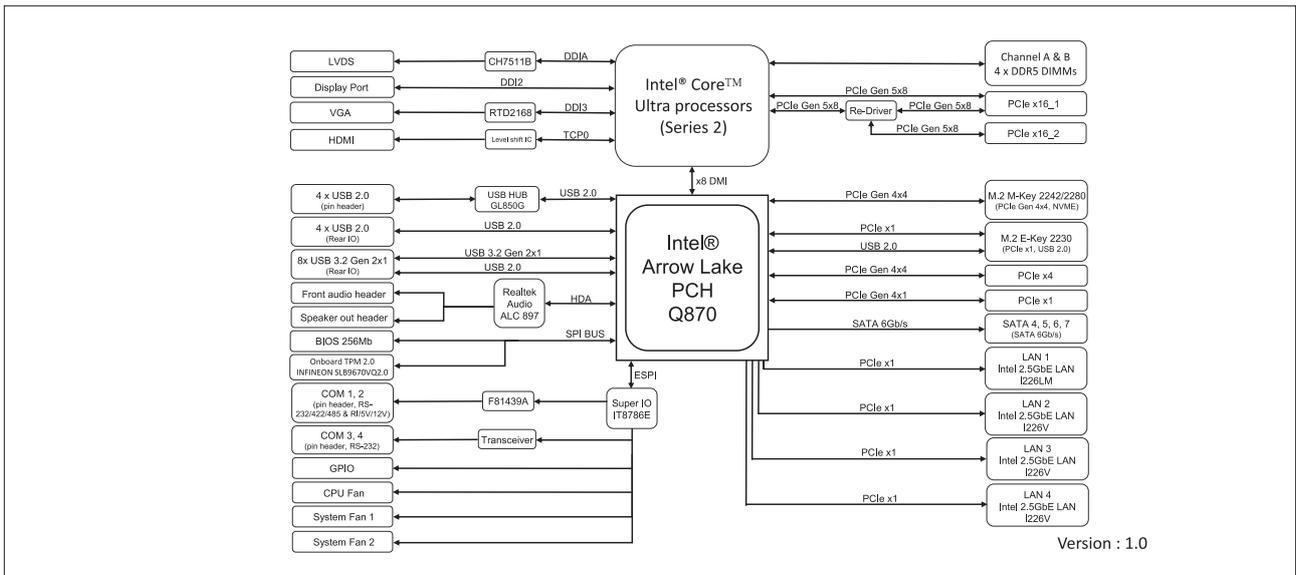
Form Factor	Micro ATX 244W x 244D (mm)
CPU	Support Intel® Core™ Ultra processors (Series 2) TDP under 125W
Socket	1 x LGA 1851
Chipset	Intel® Q870 Chipset
Memory	4 x DDR5 DIMM sockets, Max. Capacity 192 GB, Support for UDIMM: Dual Channel DDR5 5600 MHz (Non-ECC, Un-buffered) Support for CUDIMM: Dual Channel DDR5 6400 MHz (Clocked Un-buffered)
Ethernet	1 x 2.5GbE LAN Port (Intel® I226LM) 3 x 2.5GbE LAN Ports (Intel® I226V)
Video	Integrated Graphics Processor – depends on CPU: 1 x HDMI 2.1 port, supporting a maximum resolution of 7680x4320 @60Hz 1 x DP port, supporting a maximum resolution of 4096x2160 @60Hz 1 x D-sub port, supporting a maximum resolution of 1920x1080 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz (4 independent display outputs)
Audio	Realtek® ALC897
Storage	4 x SATA 6Gb/s Ports
RAID	RAID 0/1/5/10
Expansion Slots	1 x PCIe x16 (Gen 5x16)(PCIEX16_1) * The PCIEX16_1 slot shares bandwidth with the PCIEX16_2 slot. * The PCIEX16_1 slot operates at up to x8 mode when a device is installed in the PCIEX16_2 slot. 1 x PCIe x16 (Gen 5x8)(PCIEX16_2) 1 x PCIe x1 (Gen 4x1) 1 x PCIe x4 (Gen 4x4) 1 x 2280/2242 M.2 M-Key (PCIe Gen 4x4, NVME) 1 x 2230 M.2 E-Key

Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 2 x System fan headers 1 x Front panel header 1 x Front panel audio header 1 x Speaker out header 1 x VGA header 4 x USB 2.0 headers 2 x COM headers (RS-232/422/485 & RI/5V/12V) 2 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x AT/ATX mode select jumper
Rear I/O	1 x HDMI 1 x DisplayPort 4 x RJ45 LAN Ports 8 x USB 3.2 Gen 2x1 4 x USB 2.0
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
OS Compatibility	Windows 10 Enterprise 64bits_22H2 Windows 11 Enterprise 64bits_24H2 Windows 11 Enterprise 64bits_23H2 Windows 11 IoT Enterprise LTSC 2024 24H2 (64bits)
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 60% @ 20-95% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 85% @ 95% (non-condensing)
Packing Content	Carton size: 360 x 354 x 390 (mm) Packing Capacity: 5pcs Single Box size: 350 x 330 x 65 (mm) Including: IO Shield x 1 (P/N: 12AIO-MQ47EA-00R) SATA Cable x 2 (P/N: 12CF1-2SAT1B-01R)
Order Information	9MQ870AMMR-SI (Box packing)

GIGAIPC reserves the right to modify or change technical data without prior notice.



Block Diagram



Optional Kit

Part No.	Description	Quantity
25ST0-0Z9224-Y0R	CPU Cooler for CPU TDP 125W	1
12SP2-090027-00R	VR Heatsink (Suggest to be used if CPU real power is over 100W)	1

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