

GMB-MQ67000

Industrial Motherboard Micro-ATX Form Factor

Intel® Alder Lake-S 12th / Raptor Lake-S 13th
Processor with Q670 Chipset

 **CONTEC** Technology for a better life



FEATURES

- Intel® 12th/13th Gen Core™ processor in LGA1700 Up to 65W
- Intel® Q670 Chipset
- Support Intel® vPro technology (Q670)
- 4 x DDR5-4800 Non-ECC U-DIMM up to 128GB
- 1 x PCIe x16 slot + 2 x PCIe x4 slot + 1 x PCI
- 1 x HDMI + 1 x DisplayPort + 1 x DVI-I Port (Support DVI D & VGA)
- 6 x SATAIII (support RAID 0, L 5, 10)
- 3 x RJ45 : 2 x 2.5 GbE + 1 x GbE connector on rear I/O
- 8 x USB 3.2 + 5 x USB2.0 + 6 x Serial Port
- ATX power input for reliable power supply.

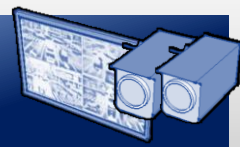
General
Manufacturing



Semiconductor
Industry



Production
Monitoring



PACKING LIST

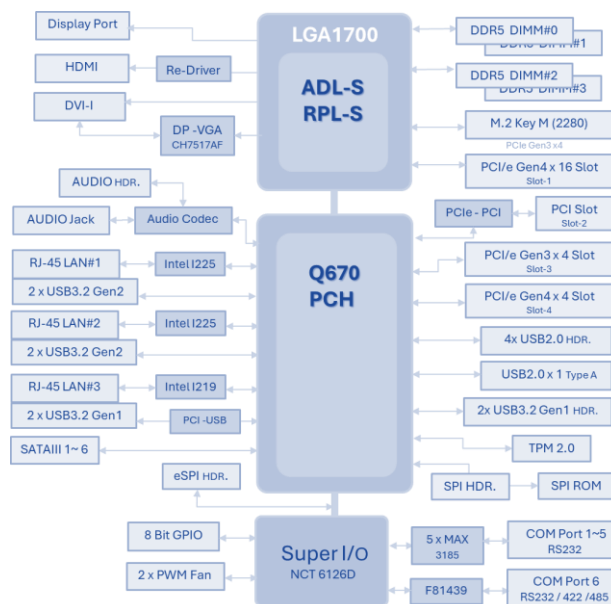
- 1x Motherboard 、 1x I/O Shield Panel 、 1x SATA Cable

Unleash Excellence: GMB-MQ67000 for Industrial Precision
The GMB-MQ67000 excels in manufacturing, semiconductor production, and monitoring. Tailored for efficiency and reliability, it sets a new standard, elevating your industrial operations.

<https://www.contec.com/>

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MECHANICAL DIMENSIONS



Specifications

PROCESSOR	Intel® 12 th / 13 th Gen Core™ Processors CPU in LGA1700 socket up to 65W TDP
CHIPSET	Intel® Q670 Chipset
BIOS	AMI UEFI BIOS
MEMORY	Support DDR5-4800MHz (Non-ECC) Up to 128GB 4 x U-DIMM sockets
SATA	6x SATA III (6.0Gb/s) Port on board
WATCHDOG TIMER	1-255 steps by software program
HARDWARE MONITORING	System monitor (Voltage, Fan Speed and Temperature)
EXPANSION INTERFACE	1x PCIe16(Gen4) 1x PCIe4(Gen4) 1x PCIe4(Gen3) 1x PCI (Use Asmedia ASM1085)
M.2	1x M.2 Key M 2280 for NVMe storage (only PCIE Gen4 x4)
AUDIO	Audio Jack Line-in/ Line-out/ Mic-in (Rear I/O) Line-out/ Mic-in (by internal 2.54mm pin header)
ETHERNET	1x 10/100/1000 BASE-T(Intel® i219LM) 2x 10/100/1000/2500 BASE-T(Intel® i225)
SERIAL PORT	1 x RS232/422/485 D-sub 9-pin connector on rear I/O 5 x RS232 on 2.54mm Box header
USB PORT	4x USB 3.2 Gen2 ports on rear I/O (Type A connector) 2 x USB3.2 Gen1 Port on rear I/O (Need to separate controller using PCIe to USB ASM1042A) 2 x USB3.2 Gen1 on board by 20-pin header 1 x USB2.0 Type A Straight Connector 4 x USB2.0 on board by two 2x5 pin header
GPIO+ SW_PWRBT	4bit in/ 4bit out + Power button Signal on 2.54mm 2x8 pin header
GRAPHIC CONTROLLER	Intel® graphic UHD 710 / 730 / 770 (By CPU SKU)
DISPLAY INTERFACE	1x DVI-I on rear I/O (4096 x 2304 @ 60Hz) 1x HDMI2.0 on rear I/O (4096 x 2160 @ 60Hz) 1x DisplayPort1.2 on rear I/O (4096 x 2304 @ 60Hz)
TPM	Onboard TPM 2.0
DIMENSIONS (L X W)	Micro-ATX: 9.6" x 9.6" (244 mm x 244 mm)
POWER SUPPLY	ATX 24 pin power connector , Internal 12V 8pin power connector
ENVIRONMENT	Operation Temperature: 0 to 60°C Storage Temperature: -40 to 80°C Relative Humidity: 10% to 95%, non-condensing
OS DRIVER SUPPORT	Windows 10 IoT Enterprise 2021 LTSC
CERTIFICATE	CE / FCC / UKCA / VCCI (class A) , RoHS2.0

Ordering Guide

● GMB-MQ67000 Micro-ATX MB 12th / 13th Gen Intel Core Processor, Intel Q670 Chipset