

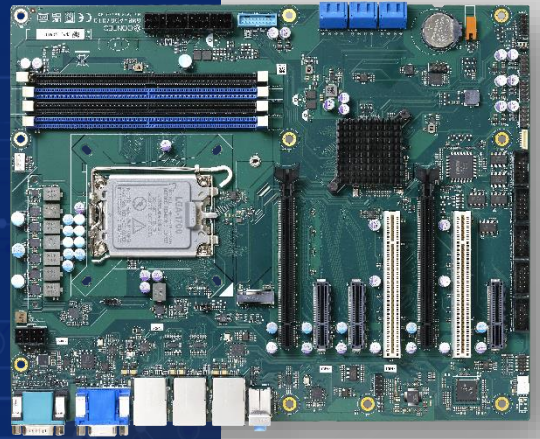
GMB-AQ67010

Industrial Motherboard

ATX Form Factor

Intel® 12th / 13th / 14th
Alder Lake-S / Raptor Lake-S /
Raptor Lake -S Refresh

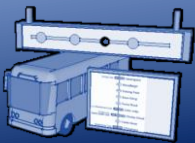
 **CONTEC** Technology for a better life



FEATURES

- Intel® 12th / 13th/ 14th Gen. processor Alder Lake-S / Raptor Lake-S / Raptor Lake -S Refresh Platform
- 4 x DDR5-4400 U-DIMM, up to 128GB (Non-ECC support)
- Multi display supported: Display port, HDMI and VGA
- 3x LAN ports : 2x 2.5 GbE + 1x GbE and 6 x USB 3.2 Gen2 on rear I/O
- Extend interface by 1 x PCIe x16 + 1 x PCIe x8 + 3 x PCIe x4 + 2 x PCI + 1 x M.2 M key
- 6x COM Ports Auto-flow Control Supported

APPLICATION



Digital Signage solutions



Semiconductor Industry

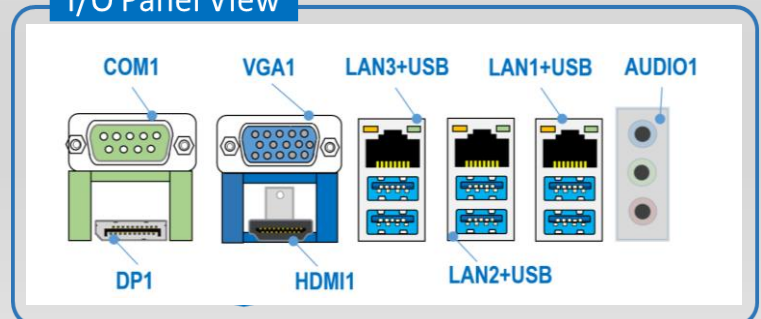


Automotive industry Manufacturing

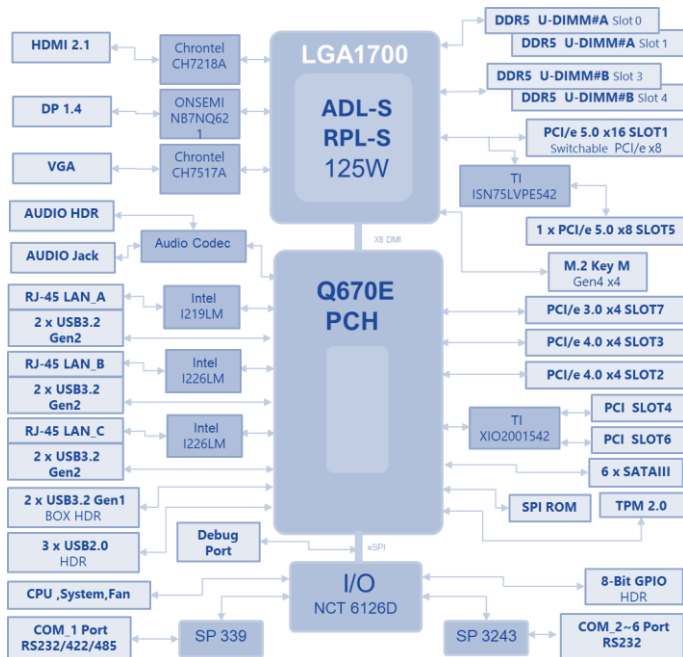
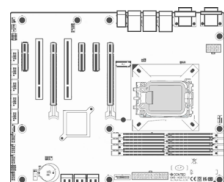
PACKING LIST

- 1x Motherboard
- 1x I/O Shield
- Product Guide

I/O Panel View



BLOCK DIAGRAM



Specifications

PROCESSOR	Intel® 12 th / 13 th / 14 th Gen Core™ Processors CPU in LGA1700 socket up to 125W TDP
CHIPSET	Intel® Q670 Chipset
BIOS	AMI UEFI BIOS
MEMORY	4x DDR5-4400 U-DIMM up to 128GB Non-ECC
Storage	6 x SATA III (6.0Gb/s) Port ,Support RAID 0/1/5/10 1x M.2 Connector M Key 2280 for NVMe storage (Only PCIE Gen4 x4)
Graphic	1 x DP 1.4, up to 7680 x 4320 @ 60Hz · 1 x HDMI 2.0b, up to 3840 x 2160 @ 60Hz · 1 x VGA, up to 1920x1200 @60Hz ·
EXPANSION INTERFACE	Slot1 PCIe x16 (Gen5) or PCIe x8(Gen5), by x16slot Slot2 PCIe x4(Gen4), x4slot openend Slot3 PCIe x4(Gen4), x4slot openend Slot4 PCI Slot5 PCIe x8(Gen5) or N/A ,by x16slot Slot6 PCI Slot7 PCIe x4(Gen3), x4slot openend
AUDIO	Realtek® ALC897 High-Definition Audio Codec Audio Jack Line-in/ Line-out/ Mic-in on rear I/O
ETHERNET	2x 2.5GbE LAN Port (use Intel I226LM) 1x 1GbE LAN Port (use Intel I219LM)
SERIAL PORT	1x RS-232/422/485 on rear I/O (D-sub 9P) 5x RS-232 on board pin box header (pitch 2.54 BHD)
USB PORT	4x USB3.2 Gen2 on rear I/O (Type A connector) 2x USB3.2 Gen1 on rear I/O (Type A connector) 2x USB3.2 Gen1 by Internal box header 3x USB2.0 Dual ports by Internal pin header
GPIO	GPIO port 8-bit by software programmable
DIMENSIONS (L X W)	304.8 mm (12.0") x 243.84 mm (9.6") ATX formfactor
POWER SUPPLY	ATX Power Connector 24-Pin,12V-8P
ENVIRONMENT	Operation Temperature: 0 to 60°C Storage Temperature: -40 to 80°C Relative Humidity: 5 to 95% non-condensing
OS DRIVER SUPPORT	Windows 11 IoT Enterprise LTSC 2024
CERTIFICATE	CE / FCC (class A) / UKCA / RoHS2.0

Ordering Guide

● GMB-AQ67010

ATX MB 12th / 13th / 14th Gen Intel Core Processor, Intel® Q670 Chipset