

GMB-AH61000

Industrial Motherboard

ATX Form Factor

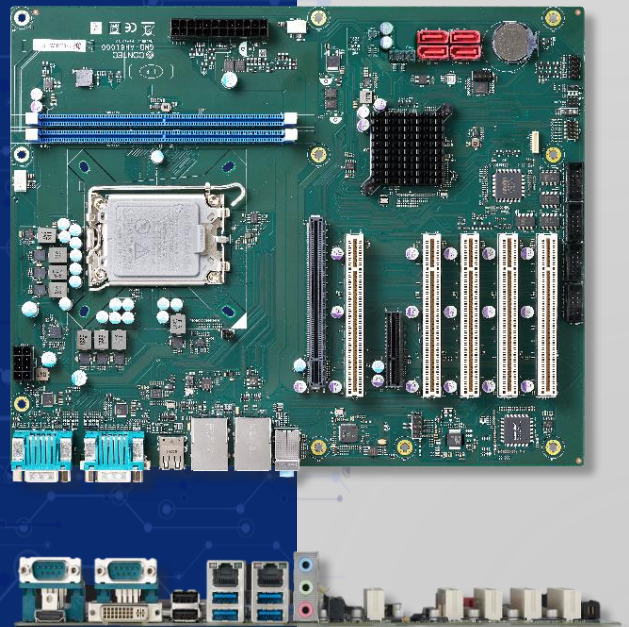
Intel® 12th / 13th / 14th

Alder Lake-S / Raptor Lake-S /

Raptor Lake -S Refresh

Processor with H610E Chipset

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FEATURES

- Intel® 12th / 13th / 14th Gen. processor Alder Lake-S / Raptor Lake-S / Raptor Lake -S Refresh Platform
- 2x DDR5-4800 U-DIMM, up to 64GB (Non-ECC support)
- 1x HDMI and 1x DVI-I Port (Support DVI-D & VGA)
- 2 RJ-45 : 2x 1Gigabit Ethernet by intel controller
- 1x PCIe x16 (Gen5)slot,1x PCIe x4 (Gen3)slot, 5x PCI slots
- 4x SATA port ,6x Serial port and 4x USB3.2 + 4x USB2.0
- Extend Peripherals Freely Rich Interface

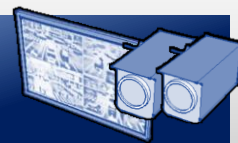
General
Manufacturing



Semiconductor
Industry



Production
Monitoring



PACKING LIST

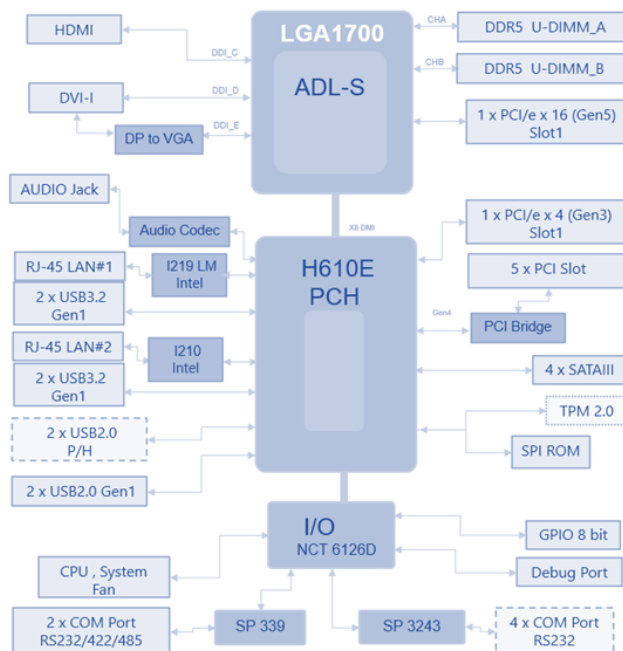
- 1x Motherboard 、 1x I/O Shield Panel 、 1x Installation CD

Unleash Excellence: GMB-AH61000 versatile expansion options for exceptional performance in factory automation and industrial computing.

This high-performance, energy-efficient mainboard ensures reliable operations in demanding environments

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

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Specifications

PROCESSOR	Intel® 12 th / 13 th / 14 th Gen Core™ Processors CPU in LGA1700 socket up to 125W TDP
CHIPSET	Intel® H610E Express Chipset
BIOS	AMI UEFI BIOS
MEMORY	Support DDR5-4800MHz (Non-ECC) Up to 64GB in two long-DIMM sockets
STORAGE I/F	4 x SATA 3.0 ports
WATCHDOG TIMER	By Software Programmable
HARDWARE MONITORING	System monitor (Voltage, Fan Speed and Temperature)
EXPANSION INTERFACE	1 x PCIe x16 (Gen 5)slot 1 x PCIe x4 (Gen3)slot 5 x PCI slots
AUDIO	Audio Interface: Line-in / Line-Out / Mic-In (Rear I/O) on 2.54mm pin header
ETHERNET	Intel® I219LM and Intel® I210 Ethernet controller Supports 2x 10/100/1000 Mbps Ethernet ports
SERIAL PORT	2 x RS232/422/485: DB9P connector on rear I/O 4 x RS232 by 2.54 mm pin header on board
USB PORT	4 x USB3.2 (Gen1) on rear I/O 2 x USB2.0 on rear I/O 2 x USB2.0 by Internal pin header
GPIO	1 x Pin Header (8bit GPIO)
GRAPHIC CONTROLLER	Intel® graphic UHD 710 /UHD 730 or UHD 770 (By CPU SKU)
DISPLAY INTERFACE	1 x HDMI connector on rear I/O, resolution up to 4096 x 2160 1 x DVI-I: One DVI-I port on rear I/O, support DVI-D & VGA signal
TPM	Onboard TPM 2.0
DIMENSIONS (L X W)	304.8 (12.0") x 243.84 (9.6") mm
POWER SUPPLY	ATX 24pin power connector , 12V 8pin power connector
ENVIRONMENT	Operation Temperature: 0 to 60°C Storage Temperature: -40 to 80°C Relative Humidity: 5% to 95%, non condensing
OS DRIVER SUPPORT	Windows 10 IoT Enterprise 2021 LTSC
CERTIFICATE	CE / FCC / UKCA / VCCI (class B) , RoHS2.0

Ordering Guide

● GMB-AH61000	ATX 12 th / 13 th / 14 th Gen Intel Core Processor, Intel H610E Chipset (without TPM)
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