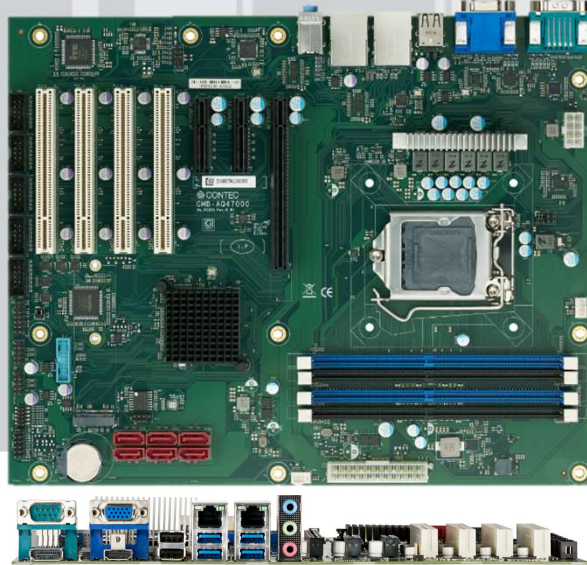


GMB-AQ47000

Intel® 10th Gen Core™ Comet Lake –S Platform Processor
Industrial Motherboard



Features

- Intel® 10th Generation processor Comet lake-S platform
- 4 x DDR4-2933 U-DIMM, up to 128GB
- Triple display supported: Display port, HDMI, and VGA
- Dual Gigabit Ethernet: i219LM + i211 controller
- Extend Peripherals Freely Rich Interface

CPU Selection Guide

intel® 10th Generation Processor				Embedded Options	
Brand	CPU	TDP	Cores	Cache	Max. Turbo Freq.
Core™ i9	i9-10900E	65W	10	20MB	4.7 GHz
	i9-10900TE	35W	10	20MB	4.5 GHz
Core™ i7	i7-10700E	65W	8	16MB	4.5 GHz
	i7-10700TE	35W	8	16MB	4.4 GHz
Core™ i5	i5-10500E	65W	6	12MB	4.2 GHz
	i5-10500TE	35W	6	12MB	3.7 GHz
Core™ i3	i3-10100E	65W	4	6MB	3.8 GHz
	i3-10100TE	35W	4	6MB	3.6 GHz
Pentium®	G6400E	58W	2	4MB	3.8 GHz
	G6400TE	35W	2	4MB	3.2 GHz
Celeron®	G5900E	58W	2	2MB	3.2 GHz
	G5900TE	35W	2	2MB	3.0 GHz
Out of Embedded Options					
Core™ i9	i9-10900K	125W	10	20MB	5.3 GHz

Packing List

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

Specifications

PROCESSOR	Intel® 10 th Gen Core™ processor in LGA1200 Up to 125W TDP Intel® Core™ i9-10900E/ i9-10900TE Intel® Core™ i7-10700E/ i7-10700TE Intel® Core™ i5-10500E/ i5-10500TE Intel® Core™ i3-10100E/ i3-10100TE Intel® Pentium® G6400E/ G6400TE Intel® Celeron® G5900E/ G5900TE Intel® Core™ i9-10900K (125W)
CHIPSET	Intel® Q470E Express Chipset
BIOS	AMI UEFI BIOS
MEMORY	4 x 288-pin DDR4 UDIMM sockets, up to 128GB DDR4-2933 (with Core™i9/ Core™i7 CPU) DDR4-2666 (with Core™i5/ Core™i3 CPU)
STORAGE I/F	6 x SATA 6.0 Gb/s Ports RAID Configuration 0,1,5,10(SATA)
WATCHDOG TIMER	Programmable by embedded controller (SIO NCT6126D)
HARDWARE MONITORING	Voltage, Fan Speed and Temperature
EXPANSION INTERFACE	1 x PCI Express 3.0 (x16) slot 2 x PCI Express 3.0 (x4) slots 4x PCI slots 1 x M.2 M Key 2280 (PCIe + SATA Signal)
AUDIO	Audio Jack for Mic-in, Line-in, and Line-out (Rear I/O) Line-out/ Mic-in on 2.54mm pin header
ETHERNET	2 X RJ-45 Connector: 10/100/1000Mbps Ethernet port Controller: 1 x Intel i219LM + 1 x Intel i211
SERIAL PORT	1 x RS232/422/485 (Rear I/O) 5 x RS232 by 2.54mm pin header
USB PORT	4 x USB3.1 Gen2 (Rear I/O) 2 x USB3.1 Gen1 port by internal 2.0mm Box header 2 x USB2.0 (Rear I/O) 4 x USB2.0 port by internal 2.54mm pin header
GPIO	8-bit general purpose input/output by pin header
GRAPHIC CONTROLLER	Intel® UHD 610 or 630 graphics (by processor)
DISPLAY INTERFACE	Triple display supported: VGA port: Up to resolution 1920 x 1080 @ 60Hz Display port: Up to resolution 4096 x 2160 @ 60Hz HDMI port: Up to resolution 4096 x 2160 @ 60Hz
TPM	-
DIMENSIONS (L) x (W)	305mm x 244mm (12"x 9.6")
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 LTSC 2019 64 bit
CERTIFICATE	CE / FCC ClassB, RoHS2.0

Ordering Guide

● **GMB-AQ47000** ATX IMB 10th Gen. Intel Core™ Processor, Intel Q470E Chipset

*Onboard TPM2.0 By Require