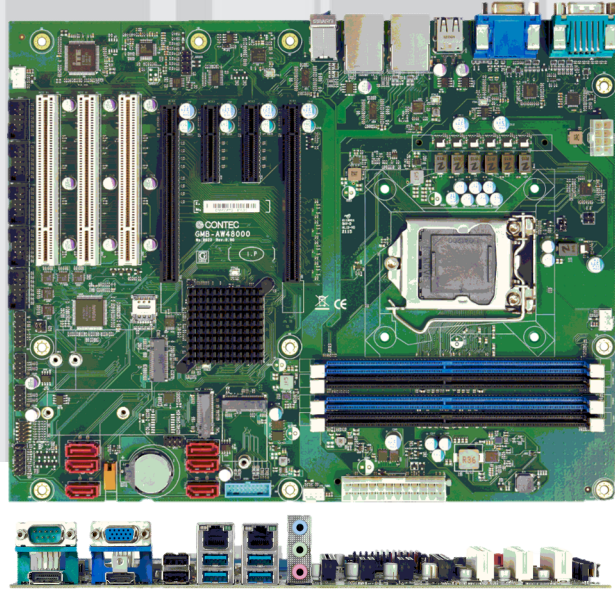


GMB-AW48000

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



 CONTEC



Features

- Intel® 10th Generation processor Comet Lake-S Platform
- 4 x DDR4-2933 U-DIMM, up to 128GB (ECC support)
- Triple display supported: Display port, HDMI, and VGA
- Dual Gigabit Ethernet: i219LM + i225LM
- Extend Peripherals Freely Rich Interface

CPU Selection Guide

ECC memory supported					
CPU	TDP	Core	Cache	Max Speed	
Intel® Xeon®	W-1290E	95W	10	20MB	4.80 GHz
	W-1290TE	35W	10	20MB	4.50 GHz
	W-1270E	80W	8	16MB	4.80 GHz
	W-1270TE	35W	8	16MB	4.40 GHz
	W-1250E	80W	6	12MB	4.70 GHz
Core™ i3	W-1250TE	35W	6	12MB	3.80 GHz
	i3-10100E	65W	4	6MB	3.80 GHz
	i3-10100TE	35W	4	6MB	3.60 GHz

Non-ECC memory supported					
CPU	TDP	Core	Cache	Max Speed	
Core™ i9	i9-10900E	65W	10	20MB	4.70 GHz
	i9-10900TE	35W	10	20MB	4.50 GHz
Core™ i7	i7-10700E	65W	8	16MB	4.50 GHz
	i7-10700TE	35W	8	16MB	4.40 GHz
Core™ i5	i5-10500E	65W	6	12MB	4.20 GHz
	i5-10500TE	35W	6	12MB	3.70 GHz

Packing List

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

Specifications

PROCESSOR	Intel® 10th Gen. Processors in LGA1200, up to 95W TDP					
	ECC memory supported			Non-ECC memory supported		
	CPU	Core	Max Speed	CPU	Core	Max Speed
	W-1290E	10	4.80 GHz	i9-10900E	10	4.70 GHz
	W-1290TE	10	4.50 GHz	i9-10900TE	10	4.50 GHz
	W-1270E	8	4.80 GHz	i7-10700E	8	4.50 GHz
	W-1270TE	8	4.40 GHz	i7-10700TE	8	4.40 GHz
	W-1250E	6	4.70 GHz	i5-10500E	6	4.20 GHz
	W-1250TE	6	3.80 GHz	i5-10500TE	6	3.70 GHz
	i3-10100E	4	3.80 GHz			
	i3-10100TE	4	3.60 GHz			
CHIPSET	Intel® W480E Express Chipset					
BIOS	AMI UEFI BIOS					
MEMORY	Dual channel DDR4-2933 ECC/ Non-ECC Up to 128GB in 4 x 288-pin UDIMM sockets					
STORAGE I/F	6 x SATA3 (6Gb/s) SATA RAID 0/1/5/10					
WATCHDOG TIMER	Programmable by embedded controller (SIO NCT6126D)					
HARDWARE MONITORING	Voltage, Fan Speed and Temperature					
EXPANSION INTERFACE	1 x PCIe x16 slot or 2 x PCIe x8 slots 2 x PCIe x4 slots 3 x PCI slots 1x M.2 M-key 2242/2280 1x M.2 E-key 2230 1x M.2 B-Key 3042/3052 (With SIM card holder)					
AUDIO	Connector for Mic-in, Line-in, and Line-out					
ETHERNET	1 x Giga LAN / Intel® I219-LM (PHY) 1 x 2.5 Giga LAN Intel® I225-LM Controller					
SERIAL PORT	1 x RS232/422/485 (Rear I/O) 5 x RS232 (internal)					
USB PORT	2 x USB 2.0 (Rear I/O) 4 x USB 2.0 (internal 2.54mm pin header) 4 x USB 3.2 Gen2 (Rear I/O) 2 x USB 3.2 Gen1 (internal 2.0mm pin header)					
GPIO	1x 8-bit GPIO by Pin Header					
GRAPHIC CONTROLLER	Intel® UHD 610 or 630 Graphics by CPU SKU					
DISPLAY INTERFACE	Triple display supported: 1x HDMI 1.4 (rear) 1x DP 1.2 (rear) 1x VGA (rear)					
TPM	Onboard TPM2.0					
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 LTSC 2019 64 bit Windows Server IoT Standard 2019 64 bit					
CERTIFICATE	CE / FCC ClassB, RoHS2.0					

Ordering Guide

●	GMB-AW48000	ATX IMB 10 Gen. Intel Core Processor, Intel W480E Chipset
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