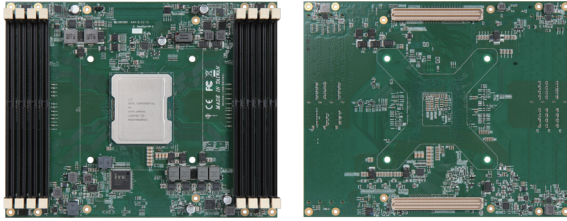


# PCOM-B800GT

COM-HPC Server Type Size E Module with Intel® Xeon® D-2700 Server-Class Processors Supporting 8 DIMM Slots and 2.5GbE Base-T



(preliminary spec subject to change)

## FEATURES

- Intel® Xeon® D-2700 Processors for Edge IoT Computing
- AI/Deep Learning Accelerate Data Analytics with Intel® AVX-512 and VNNI
- 8x 10G KR, 4x USB2.0/3.2 Gen 2x1, 2x SATAIII, 2x UART
- Eight DIMM Slots Design and Maximum 1024GB Memory Support
- Selected SKUs Supporting -40~80°C for Extended Temperature Applications



PCOM-B800GT, a COM-HPC Server Type Size E module (200mm x 160mm), is based on Intel® Xeon® D-2700 processors. The platform includes Intel® Deep Learning Boost (Intel® DL Boost) to speed up processing of INT8 workloads with options from four cores up to 20 cores. Multi-OS support, including real-time operating system and hypervisor support, enables consolidating workloads onto a single device. PCOM-B800GT provides up to 8x 10G KR interface, 32x lanes PCIe 4.0, 16x lanes PCIe 3.0, TPM 2.0, and 8x DDR4 DIMM slots supporting maximum 1024GB memory size. With a high-performance feature set, PCOM-B800GT is an ideal core computing element for systems and solutions designed to deliver virtualization and workload consolidation in the ever-evolving edge-driven IoT environments.

## General

General					
Model Name	PCOM-B800GT Series				
Form Factor	COM-HPC Server, Size E (200mm x160mm)				
Processor	Intel® Xeon® D-2700 Family				
	D-2712T	D-2733NT	D-2752TER	D-2775TE	D-2796TE
Core / Thread Count	4C / 8T	8C / 16T	12C / 24T	16C / 32T	20C / 40T
Base Frequency	1.9 GHz	2.1 GHz	1.8 GHz	2.0 GHz	2.0 GHz
Boost Frequency	2.4 GHz	2.6 GHz	2.1 GHz	2.4 GHz	2.4 GHz
Cache	15MB	15MB	20MB	25MB	30MB
Integrated Ethernet / QAT	50G / NA	50G / 50G	50G / NA	100G / NA	100G / NA
NBASE-T	Intel® I226LM		Intel® I226IT		
TDP	65W	80W	77W	100W	118W
BIOS	AMI BIOS				
ECC Memory Supported	Yes				
Memory	8x DDR4 DIMM up to 1024GB at 2933 MT/s with RDIMM				
Temperature Range	0 ~ 60 °C	0 ~ 60 °C	-40 ~ 80 °C	-40 ~ 80 °C	-40 ~ 80 °C

## I/O Interface

SATA	2 x SATA III				
USB	4 x USB 3.2 Gen1/USB 2.0				
Ethernet	4x 25/10G KR / 8x 10G KR (Depend on SKU) 2.5GbE LAN				
Serial I/O	GPIO		12 bit GPIO		
	I <sup>2</sup> C		Frequency : 100kHz – 1MHz		
	SMBus		Frequency : 100kHz – 1MHz		
	UART		2 Serial Port (TX/RX/CTS/RTS)		
PCI Express	32x PCIe 4.0 from IIO (#16 ~#31, #32 ~ #47) 16x PCIe 3.0 from HSI0 (#0 ~ #7, #8 ~#15)				
Display	N/A				
Security	TPM 2.0, Intel®AES				

## MECHANICAL & ENVIRONMENT

Dimension	200mm x 160mm
Power DC IN	Normal: +12V DC AT/ATX mode
Storage Temperature	-40°C to 80°C
Operating Temperature	-40°C to 80°C ( Selected SKU 0°C to 60 °C )
Certification	Contact us
MTBF	Contact us
Vibration	Contact us
OS	Windows10 IoT Enterprise LTSC Windows Server Linux

## ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B800GT-D2796TE	AB1-3L51Z	In Development
PCOM-B800GT-D2775TE	AB1-3P11Z	In Development
PCOM-B800GT-D2752TER	AB1-3P12Z	In Development
PCOM-B800GT-D2733NT	AB1-3P13Z	In Development
PCOM-B800GT-D2712T	AB1-3P14Z	In Development

Accessory	Ordering P/N	Status
Cooler for 2U System	TBD	In Development
Cooler for 1U System	TBD	In Development
Heat-sink	TBD	In Development

## BLOCK DIAGRAM

### PCOM-B800GT

