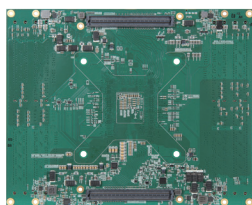


PCOM-B800GT

COM-HPC Server Type Size E Module with Intel® Xeon® D-2700 and D-2800 Server-Class Processors Supporting 8 DIMM Slots and 2.5GbE Base-T



FEATURES

- Intel® Xeon® D-2700 and D-2800 Processors for Edge IoT and Network Communication Computing
- AI/Deep Learning Accelerate Data Analytics with Intel® AVX-512 VNNI and Intel® QuickAssist Technology (Intel QAT) up to 100G
- 8x 10G KR, 4x USB2.0/3.2 Gen 2x1, 2x SATAIII, 2x UART
- Eight DIMM for up to 1024GB Memory Support
- Selected SKUs Supporting -40°C~85°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 and D-2800 processors series. The platform includes Intel® Deep Learning Boost (Intel DL Boost) to speed up processing of INT8 workloads with options from four cores up to 22 cores. Multi-OS support, including real-time operating systems and hypervisor support, enables consolidating workloads onto a single device. It also features enhanced Intel® QuickAssist Technology (Intel QAT) boosting acceleration up to 100G (selected Xeon D-2800 SKUs). PCOM-B800GT provides up to 8x 10G KR interface, 32x lanes for PCIe 4.0, 16x lanes for 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 INFORMATION

Product	PCOM-B800GT				
Form Factor	COM-HPC Server Type Size E (200mm x 160mm)				
Processor	Intel® Xeon® D-2700 series				
	D-2712T	D-2733NT	D-2752TER	D-2775TE	D-2796TE
Core / Thread Count	4	8	12	16	20
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		
Processor TDP	65W	80W	77W	100W	118W
BIOS	AMI BIOS				
ECC Memory Supported	Yes				
Memory	8x DDR4 Long-DIMM up to 1024GB 2933MT/s				
Temperature Range	0 ~ 60 °C	0 ~ 60 °C	-40 ~ 85 °C	-40 ~ 85 °C	-40 ~ 85 °C

Product	PCOM-B800GT					
Form Factor	COM-HPC Server Type Size E (200mm x160mm)					
Processor	Intel® Xeon® D-2800 series (*coming soon)					
	D-2832NT	D-2843NT	D-2876NT	D-2896NT	D-2896TER	D-2899NT
Core / Thread Count	8	10	16	20	20	22
Base Frequency	2.10 GHz	2.00 GHz	2.00 GHz	2.00 GHz	2.00 GHz	2.20 GHz
Boost Frequency	2.6 GHz	2.6 GHz	2.5 GHz	2.6 GHz	2.5 GHz	2.8 GHz
Cache	15 MB	15 MB	20 MB	30 MB	30 MB	30 MB
Integrated Ethernet / QAT	50G/50G	50G/50G	100G/50G	100G/100G	100G/NA	100G/100G
NBASE-T	Intel® I226LM			Intel® I226IT		Intel® I226LM
Processor TDP	70 W	80 W	100 W	117 W	110 W	135 W
BIOS	AMI BIOS					
ECC Memory Supported	Yes					
Memory	8x DDR4 Long-DIMM up to 1024GB 2933MT/s					
Temperature Range	0 ~ 60 °C	0 ~ 60 °C	0 ~ 60 °C	0 ~ 60 °C	-40 ~ 85 °C	0 ~ 60 °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 ² 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 HSIO (#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 85°C
Operating Temperature	-40°C to 85°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
PCOM-B800GT-D2832NT	AB1-3S58Z	In Development
PCOM-B800GT-D2843NT	AB1-3S60Z	In Development
PCOM-B800GT-D2876NT	AB1-3S59Z	In Development
PCOM-B800GT-D2896NT	AB1-3S61Z	In Development
PCOM-B800GT-D2896TER	AB1-3S57Z	In Development
PCOM-B800GT-D2899NT	AB1-3S56Z	In Development

Accessory	Ordering P/N	Status
Cooler for 2U	B9972140	In Development

PCOM-B800GT

BLOCK DIAGRAM

PCOM-B800GT

