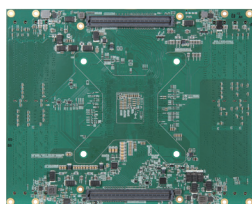


PCOM-B800GT

COM-HPC Server, Size E Module with Intel® Xeon® D-2700 and D-2800 Server-Class processors support 8 DIMM slots and 2.5GbE Base-T



FEATURES

- Intel® Xeon® D-2700 and D-2800 Processors for Edge IoT Computing and networking communication
- 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 Supported -40 ~ 85 °C for Extended Temperature Application
- New Gen of Intel® QAT up to 100G (D-2800series)



PCOM-B800GT, a COM-HPC Server, size E module (200mm x 160mm) based on Intel® Xeon® D-2700 and D-2800 processors. The platform includes Intel® Deep Learning Boost (Intel® DL Boost), to speed processing of int8 workloads with options from 4 cores(D-2700) up to 22 cores(D-2800). Multi-OS support including real-time, operating systems and hypervisor support, make you consolidate workloads onto a single device. Also support New Gen of Intel® QAT that provide better acceleration up to 100G(D-2800series).

PCOM-B800GT, provide 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 to fulfill virtualization work consolidated edge environment.

GENERAL INFORMATION

Product	PCOM-B800-GT				
Form Factor	COM-HPC Server Type 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-B800-GT					
Form Factor	COM-HPC Server, 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	AB1-3L51	Mass production
PCOM-B800GT-D2775TE	AB1-3P11	Mass production
PCOM-B800GT-D2752TER	AB1-3P12	Mass production
PCOM-B800GT-D2733NT	AB1-3P13	Mass production
PCOM-B800GT-D2712T	AB1-3P14	Mass production
PCOM-B800GT-D2832NT	AB1-3S58	Mass production
PCOM-B800GT-D2843NT	AB1-3S60	Mass production
PCOM-B800GT-D2876NT	AB1-3S59	Mass production
PCOM-B800GT-D2896NT	AB1-3S61	Mass production
PCOM-B800GT-D2896TER	AB1-3S57	Mass production
PCOM-B800GT-D2899NT	AB1-3S56	Mass production

Accessory	Ordering P/N	Status
Cooler for 2U	B9972140	Mass production

BLOCK DIAGRAM

PCOM-B800GT

