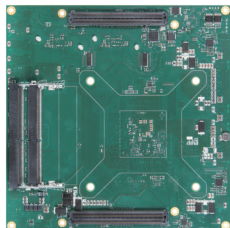
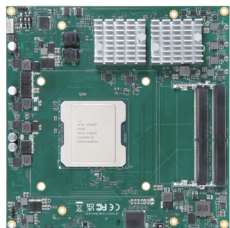


PCOM-B801GT

COM-HPC Server Type Size D Module with Intel Atom® P5300 Series Processors Supporting up to 4x DDR4 SD-DIMM Slots and 8x 10GbE Ethernet KR (or 4x 25GbE KR)

(Preliminary - subject to change)



FEATURES

- Intel Atom® P5300 Series Processors up to 24 cores and 83W TDP
- COM-HPC Server Type, Size D
- Support up to 4x DDR4 2667MT/s SO-DIMMs (select SKUs)
- All SKUs support Intel QAT
- All SKUs support extended temp
- x16 PCIe Gen 3 Lanes, x8 10GbE KR (option 4x 25GbE KR)
- Optional dual NVMe SSD via PCIe Gen2 (one x4 or two x2), up to 1TB x2



The PCOM-B801GT, a COM-HPC Server Type Size D module powered by the Intel Atom® P5300 processors featuring up to 24 cores and 83W TDP, supports up to 4 SO-DIMM slots and offers a wide temperature range across all SKUs. With Intel® QuickAssist Technology (QAT) of up to 100Gbps (select SKUs), it accelerates cryptographic and compression tasks.

The PCOM-B801GT is ideal for demanding applications such as Network Switch Control Plane, Outdoor 5G Small Cell, SD-WAN, Private 5G Networks, and Network Security Appliances. It provides up to 8x 10GbE KR ports or an optional 4x 25GbE KR for versatile networking options. Additionally, it supports onboard NVMe storage via PCIe Gen2 interface with either one x4 or two x2 configurations, ensuring high-speed data access and flexibility.

GENERAL INFORMATION

Product	PCOM-B801GT				
Form Factor	COM-HPC Server Size D (160mm x 160mm)				
Processor	Intel Atom® P5300 series				
	P5322	P5332	P5342	P5352	P5362
Core / Thread Count	8C/8T	12C/12T	16C/16T	20C/20T	24C/24T
Base Frequency	2.2GHz	2.2GHz	2.2GHz	2.2GHz	2.2GHz
Boost Frequency	2.2GHz	2.2GHz	2.2GHz	2.2GHz	2.2GHz
Cache	9M	13.5M	18M	22.5M	27M
Integrated Ethernet / QAT	100G / 50G	100G / 50G	100G / 100G	100G / 100G	100G / 100G
NBASE-T	Intel® I226IT				
Processor TDP	55W	61W	71W	78W	83W
ECC Memory Supported	Yes				
Memory	3 x SO-DIMM	3 x SO-DIMM	3 x SO-DIMM	4 x SO-DIMM (backside 8mm high)	4 x SO-DIMM (backside 8mm high)
Temperature Range	-40 ~ 85 °C	-40 ~ 85 °C	-40 ~ 85 °C	-40 ~ 85 °C	-40 ~ 85 °C

I/O INTERFACE

SATA	2 x SATA III	
USB	4 x USB 3.2 Gen1 / USB 2.0	
Ethernet	8 x 10GbE KR (option 4 x 25GbE KR) 2.5GbE LAN	
Serial I/O	GPIO	12 bit GPIO
	I ² C	Baud Rate : 100KHz
	SMBus	Baud Rate : 100KHz
	UART	2 Serial Port (TX/RX/CTS/RTS)
PCI Express	16 Lanes PCIe Gen3 Support 1x16, 2x8, 4x4 bifurcation 4 Lanes PCIe Gen2 Support 1x4, 2x2 bifurcation 4 Lanes PCIe Gen2 Support 2x2 bifurcation (optional on board SSD : one x4 NVMe chip or two x2 NVMe chip)	
Security	TPM 2.0	

MECHANICAL & ENVIRONMENT

Dimension	160mm x 160mm
Power DC IN	Normal: +12V DC AT/ATX mode
Storage Temperature	-40 ~ 85°C
Operating Temperature	-40 ~ 85°C
Certification	Contact us
MTBF	Contact us
Vibration	Contact us
OS	Linux

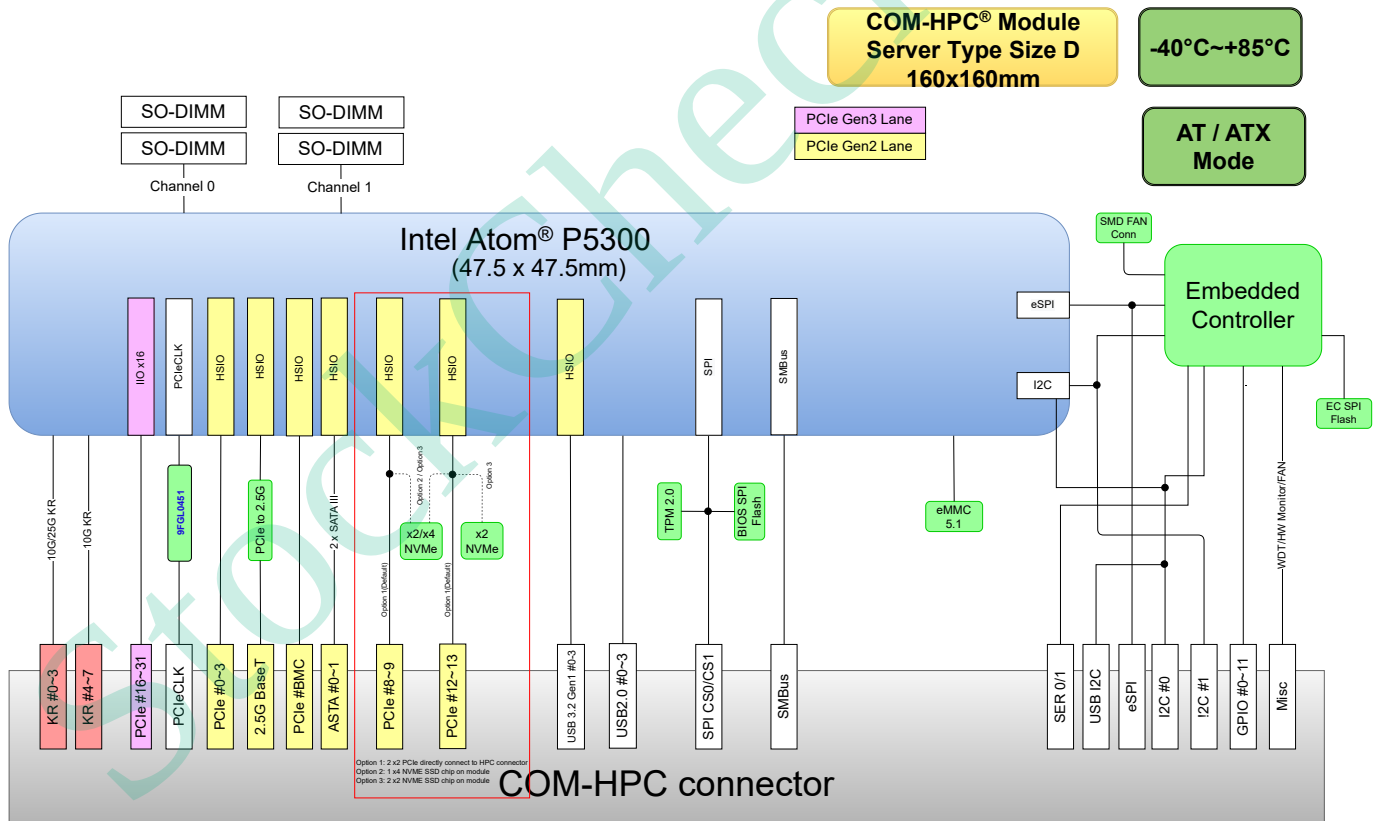
ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B801GT-P5322	AB1-3S67Z	In Development
PCOM-B801GT-P5332	AB1-3S68Z	In Development
PCOM-B801GT-P5342	AB1-3S69Z	In Development
PCOM-B801GT-P5352	AB1-3S71Z	In Development
PCOM-B801GT-P5362	AB1-3S70Z	In Development

Accessory	Ordering P/N	Status
Heat spreader	In Process	In Development
Heat sink	In Process	In Development
2U cooler	In Process	In Development

BLOCK DIAGRAM

PCOM-B801GT



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