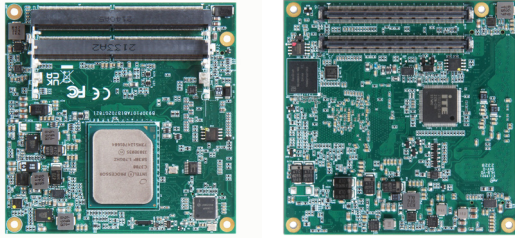


# PCOM-B702GT

Intel® Atom® C3000/C3000-Refresh series SoC based on Type 7 Compact COM-Express® module with up to Dual Channels and 2x DDR4 ECC SO-DIMM Socket



## FEATURES

- Intel® Atom® C3000 Refresh series processors
- DDR4 ECC SDRAM up to maximum capacity 64GB and maximum data rate 2400 MT/s (Selected SKUs)
- 4x 10GBASE-KR port (Selected SKUs) and NC-SI Support
- Capable of Industrial temperature -40°C to 80°C (only for eTemp SKUs)
- Support Intel® QAT Technology



PCOM-B702GT, a COM Express® COM.0 R3.0 Compact size type 7 module, is developed by Portwell Taiwan aiming at Networking and IOT application. The module implements Atom® C3000 Refresh series processors. It offers connectivity interface such as 4x 10GbE KR, 1xPCIe Gen 3.0 x8, 2x USB 3.0, 4x USB 2.0, and 2x SATA III I/O expansion, it also supports Intel® QuickAssist Technology (Intel® QAT), NC-SI, and extended temperature (-40°C to 80°C) by selected SKUs.

## General

Product	PCOM-B702GT			
Form Factor	Type 7, Compact Form Factor COM-Express® ( 95 x 95 mm)			
Processor	Network and Enterprise ( 0°C to 60°C)	Extended Temperature (-40°C to 80°C)		
	C3558R	C3708	C3508	C3308
Core	4	8	4	2
Freq.	2.4 GHz	1.7 GHz	1.6 GHz	1.6 GHz
Turbo		N/A		2.1 GHz
Cache	8MB	16MB	8MB	4MB
Intel® QuickAssist Technology (Intel® QAT)	Yes			
Intel® QAT Speed	Medium	Medium	Low	Low
Intel® QAT Cryptographic Functions	Yes			
Intel® QAT Compression/Decompression	Yes			
Ethernet 10G KR	2	4	N/A	N/A
Processor TDP	17W	17W	11.5W	9.5W
BIOS	AMI BIOS			
ECC	Yes			
Storage	eMMC 5.0 onboard, default capacity 16GB (up to 64GB)			
Memory	2x SO-DIMM DDR4 up to 64GB 2400 MT/s	2x SO-DIMM DDR4 up to 64GB 2133MT/s	2x SO-DIMM DDR4 up to 64GB 1866MT/s	1x SO-DIMM DDR4 up to 32GB 1866MT/s

## I/O Interface

SATA	2x SATA III	1x SATA III
USB	2x USB 3.0 4x USB 2.0	1x USB 3.0 N/A
Ethernet	Intel® I210AT	Intel® I210IT
Serial I/O	GPIO: 8 GPIO	
	I <sup>2</sup> C: Baud Rate: 400KHz	
	SMBus: Baud Rate: 100KHz	
	UART: 2 Serial Port (Tx/Rx)	
PCI Express	1x PCIe Gen 3.0 x4 or 1 PCIe Gen 3.0 x2 1x PCIe Gen3.0 x8 or 2x PCIe Gen3 x4 or 4x PCIe Gen3 x2	
Security	TPM 2.0	

## MECHANICAL & ENVIRONMENT

Dimension	95 x 95 mm
Power DC IN	Normal : +12V AT Mode
Storage Temperature	-40°C to 85°C
Operating Temperature	-40°C to 80°C (C3708 & C3508 & C3308) 0°C to 60°C (C3558R)
Certification	Contact us
MTBF	Contact us
Vibration	Contact us
OS	Windows Server
	Ubuntu, Fedora, Yocto, CentOS, FreeBSD
	Red Hat Enterprise, SUSE SuSE, Wind River

## ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B702GT-C3708	AB1-3R79	Contact us
PCOM-B702GT-C3508	AB1-3J40	Contact us
PCOM-B702GT-C3308	AB1-3H45	Contact us
PCOM-B702GT-C3558R	AB1-3R78	Contact us
Accessory	Ordering P/N	Status
Heat Sink	B830A920	Available
Heat Spreader	B830C140	Available
Cooler ( for sku C3708)	B9972230	Available
PCOM-C701(ATX Carrier board)	AB1-3J61Z	Available
PCOM-C701-BMC(ATX Carrier board)	AB1-3K14Z	Available

## BLOCK DIAGRAM

### PCOM-B702GT

COM Express® Type 7  
Compact Module 95x95mm

AT Mode

12VDC+/-20%

-40° C ~ +80° C  
(Selected SKUs)

DDR4 ECC Dual Channel

