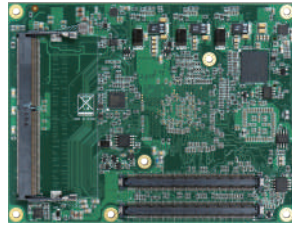


PCOM-B701GT

Intel® Atom® Denverton, Denverton refresh series SoC based on Type 7 Basic COM-Express® module with 3x DDR4 ECC SO-DIMM Socket



FEATURES

- Intel® Atom® Denverton C3000, C3000R series processors
- DDR4 ECC SDRAM up to 96GB 2400 MT/s
- Support 4x high speed KR up to 10G, 1x 2.5GbE ethernet
- Support Industrial temperature -40°C to 85°C
- Support Intel® QAT Technology



The Portwell PCOM-B701GT type 7 COM Express® module was developed and designed with the Intel® Atom® C3000 and C3000R series processors (formerly Denverton and Denverton refresh). In this platform, PCOM-B701GT could provide 4x high speed KR, 4x PCIe 3.0 x2, 2x USB 3.0, 4x USB 2.0, and 2x SATA III I/O expansion, it also supports Intel® QuickAssist Technology (Intel® QAT), and extended temperature (-40°C to 85°C). The Portwell COM-B701GT delivers high performance and is yet cost effective, and is a suitable solution in various applications, such as network, cloud server and workstation.

General

General						
Product	PCOM-B701GT					
Form Factor	Type 7, Basic Form Factor COM-Express® (125 x 95 mm)					
Processor	Network and Enterprise (0°C to 70°C)			Extended Temperature (-40°C to 85°C)		
	C3558R	C3758R	C3308	C3508	C3708	C3808
Core	4	8	2	4	8	12
Freq.	2.4 GHz	2.4 GHz	1.6 GHz	1.6 GHz	1.7 GHz	2.0 GHz
Turbo	2.1 GHz			N/A		
Cache	8MB	16MB	4MB	8MB	12MB	16MB
Processor Graphics	N/A					
Graphics Base Frequency						
Graphics Max Dynamic Frequency						
HW Encoding						
HW Decoding						
HW Acceleration						
Processor TDP	17W	26W	9.5W	11.5W	17W	24W
BIOS	AMI BIOS					
ECC Memory Supported	Yes					
Memory	3x SO-DIMM DDR4 up to 96GB 2400 MT/s		1x SO-DIMM DDR4 up to 96GB 1866 MT/s	3x SO-DIMM DDR4 up to 96GB 1866 MT/s	3x SO-DIMM DDR4 up to 96GB 2133MT/s	

I/O Interface

SATA	2x SATA III	2x SATA III	1x SATA II 1x SATA III	1x SATA II 1x SATA III	2x SATA III	2x SATA III
USB	2x USB 3.0 4x USB 2.0	2x USB 3.0 4x USB 2.0	4x USB 2.0	1x USB 3.0 4x USB 2.0	2x USB 3.0 4x USB 2.0	2x USB 3.0 4x USB 2.0
Ethernet	Intel® I226LM			Intel® I226IT		
Serial I/O	GPIO			8 GPIO		
	I ² C			Baud Rate: 400KHz		
	SMBus			Baud Rate: 100KHz		
	UART			2 Serial Port (Tx/Rx)		
PEG	N/A	1x PCIe 3.0x 8	N/A		1x PCIe 3.0x 8	
PCI Express	3x PCIe 3.0x 2 1x PCIe 3.0x 2(LAN)	3x PCIe 3.0x 2 1x PCIe 3.0x 2(LAN)	3x PCIe 3.0x 2 1x PCIe 3.0x 2(LAN)	3x PCIe 3.0x 2 1x PCIe 3.0x 2(LAN)	3x PCIe 3.0x 2 1x PCIe 3.0x 2(LAN)	3x PCIe 3.0x 2 1x PCIe 3.0x 2(LAN)
Security	TPM 2.0					

MECHANICAL & ENVIRONMENT

Dimension	125 x 95mm
Power DC IN	Normal : +12V Wide range : +9VDC - +18VDC AT/ATX Mode
Storage Temperature	-40°C to 85°C
Operating Temperature	-40°C to 85°C
Certification	Contact us
MTBF	TBD
Vibration	TBD
OS	Windows 10 Pro CentOS 7, 6

ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B701GT-C3808	AB1-3H90	Available
PCOM-B701GT-C3708	AB1-3H89	Available
PCOM-B701GT-C3508	AB1-3H86	Available
PCOM-B701GT-C3308	AB1-3J01	Available
PCOM-B701GT-C3758R	AB1-3P54	Contact us
PCOM-B701GT-C3558R	AB1-3P55	Contact us

Accessory	Ordering P/N	Status
Cooler	TBD	Contact us
Heat Sink	TBD	Contact us
Heat Spreader	TBD	Contact us
PCOM-C701 (ATX Carrier board)	AB1-3J61Z	Available
PCOM-C701-BMC (ATX Carrier board)	AB1-3K14Z	Contact us

BLOCK DIAGRAM

PCOM-B701GT R1

COM Express® Type 7
Compact Module 125x95mm

AT / ATX Mode

12V

-40°C ~ +85°C

