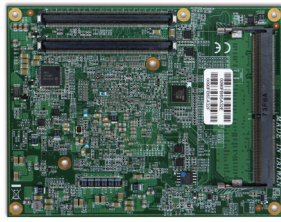


PCOM-B700G

Intel® Pentium® and Xeon® processor D-1500 Series with DDR4 ECC up to 96GB 2400 MT/s on Three SO-DIMM Sockets with 31 PCIe Lanes, 2x KR to support 10G, NC-SI Interface, SATA III, USB 2.0 and 3.0



FEATURES

- Intel® Pentium® and Xeon® Processors D-1500 Series (Broadwell-DE)
- DDR4 1866/2133/2400 MT/s ECC up to 96GB
- 31 PCIe Lanes
- High-speed Ethernet, 2x 10GbE and 1x GbE interfaces
- Wide-Temp (-40°C to 85°C by selected sku) Support



PCOM-B700G, a Type 7 COM Express module, is designed with Intel® Pentium® and Xeon® processor. Based on the COM Express 3.0 Type 7 pinout definition, when compared to the Type 6 pinout, trades all the graphic interfaces for 10 GbE ports and more PCIe lanes, makes PCOM-B700G ideal for applications in networking, micro server and the like, requiring low power consumption while supporting high computing performance and communication throughput.

PCOM-B700G features two 10GbE LAN interfaces, 31 PCIe Lanes and three DDR4 ECC SO-DIMM up to 96GB in total. It is compatible with Type 7 carrier board.

General

General						
Product	PCOM-B700G					
Form Factor	Type 7, Basic Size Form Factor COM Express® (125 X 95mm)					
Processor	Intel® Pentium®/Xeon®					
	D1508	D1517	D1539	D1548	D1559	D1577
Core	2	4	8	8	12	16
Freq.	2.20 GHz	1.60 GHZ	1.60 GHZ	2.00 GHz	1.50 GHZ	1.30 GHZ
Turbo	2.60 GHz	2.20 GHz	2.20 GHz	2.60 GHz	2.10 GHz	2.10 GHz
Cache	3MB	6MB	12MB	12MB	18MB	24MB
Processor Graphics	N/A					
Graphics Base Frequency						
Graphics Max Dynamic Frequency						
HW Encoding						
HW Decoding						
Processor TDP	25W	25W	35W	45W	45W	45W
BIOS	AMI BIOS					
ECC Memory Supported	Yes					
BIOS	3x SO-DIMM DDR4 up to 96GB 1866 MT/s	3x SO-DIMM DDR4 up to 96GB 2133 MT/s	3x SO-DIMM DDR4 up to 96GB 2400 MT/s	3x SO-DIMM DDR4 up to 96GB 2400 MT/s	3x SO-DIMM DDR4 up to 96GB 2133 MT/s	3x SO-DIMM DDR4 up to 96GB 2133 MT/s

I/O Interface

SATA	2x SATA III					
USB	4x USB 2.0 4x USB 3.0					
Ethernet	Intel® I210AT					
Serial I/O	GPIO			8 bit GPIO (4 in, 4out)		
	I ² C			Frequency : 100kHz (Default) / 400kHz (available)		
	SMBus			Frequency : 100kHz (Default) / 400kHz (available)		
	UART			2x UART		
PEG	1x PCIe Gen3 x16 & 2x PCIe Gen3 x4					
PCI Express	7x PCIe Gen2 x1					
Security	N/A					

MECHANICAL & ENVIRONMENT

Dimension	125 x 95mm
Power DC IN	12V DC IN AT/ATX mode
Storage Temperature	-40°C to 85°C
Operating Temperature	-40°C to 85°C
Certification	Contact us
MTBF	Contact us
Vibration	Contact us
OS	Windows 10 Pro, CentOS 7.6

ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B700G-D1577	AB1-3G83	Available
PCOM-B700G-D1559	AB1-3G82	Available
PCOM-B700G-D1548	AB1-3F53	Available
PCOM-B700G-D1539	AB1-3F52	Available
PCOM-B700G-D1517	AB1-3G77	Available
PCOM-B700G-D1508	AB1-3G78	Available

Accessory	Ordering P/N	Status
Heat Spreader	B830A070	Available
Heat Sink	B830A060	Available
Cooler	B9971570	Available
PCOM-C701 (ATX Carrier Board)	AB1-3J61Z	Available
PCOM-C702 (ATX Carrier Board)	AB1-3J60Z	Available

BLOCK DIAGRAM

PCOM-B700G

COM Express® Type 7 Basic Module 125x95mm
AT / ATX Mode
12VDC+/-20%
-40° C ~ +85° C (Selected SKUs)

