

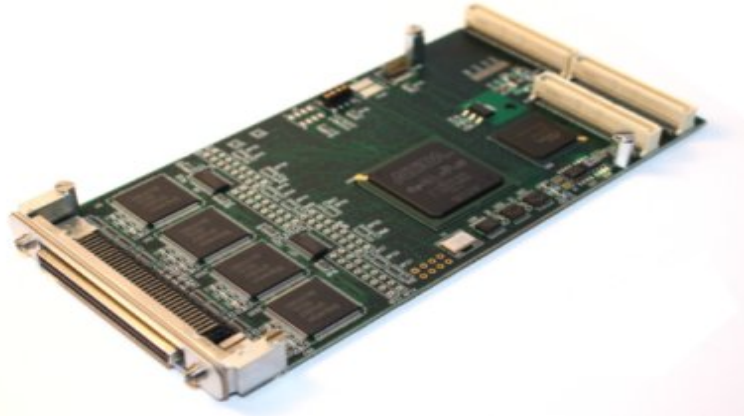
General Standards Corporation

High Performance Bus Interface Solutions

PMC66-SIO4BXR

Quad Channel High Performance Serial I/O PMC CARD

With up to 256Kbytes of FIFO buffering and Multiple Serial Protocols



Features Include:

- Four Independent Multi-Protocol Serial Channels
- Serial Mode Protocols include Asynchronous, Bisync, SDLC, HDLC, IEEE 802.3, and Nine-Bit
- Synchronous Serial Data Rates up to 10 Mbits/sec
- Asynchronous Serial Data Rates up to 1 Mbit/sec
- Multiprotocol Transceivers support RS422 (V.11)/RS485, RS423 (V.10), RS232 (V.28), V.35, RS530, as well as other Mixed Protocol modes.
- Fast RS422/RS485 Differential Cable Transceivers Provide Data Rate up to 10Mbps
- RS423 and RS232 Cable Transceivers Provide Data Rate up to 230kbps
- Eight signals per channel, configurable as DTE or DCE.
TxC, RxC, AuxC, TxD, RxD, RTS, CTS, and DCD
- Unused signals may be reconfigured as general purpose IO
- Independent Transmit and Receive FIFOs for each channel - Up to 32 Kbytes each
- Parity and CRC detection capability
- Four Programmable Oscillators provide flexibility for Baud Rate Clock generation
- SCSI type 68 pin front edge I/O Connector. Optional cable adapter to four DB25 connectors. Custom cables are also available.
- Industry Standard Zilog Z16C30 Multi-Protocol Universal Serial Controllers (USC®)
- Dual PCI DMA Engine to speed transfers and minimize host I/O overhead
- Available device drivers include VxWorks, WinNT, Win2k, Linux, and Labview

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FAX: (256)880-8788

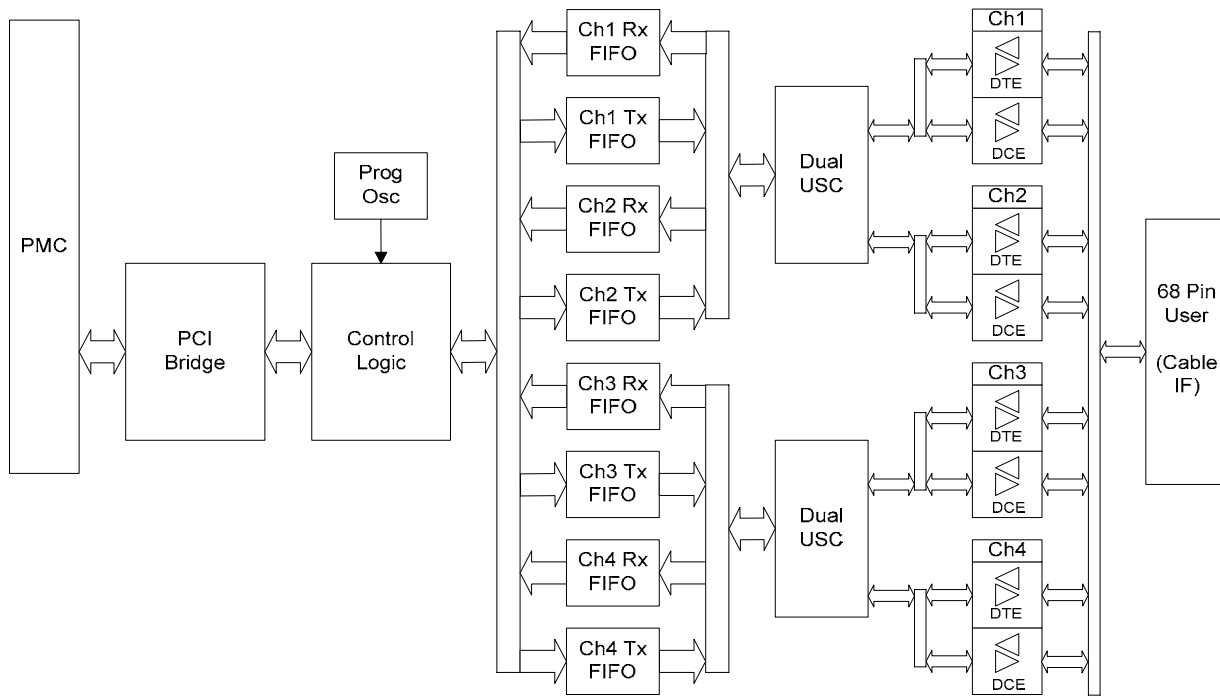
Email: sales@generalstandards.com

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Functional Description:

The PMC66-SIO4BXR board is a four channel serial interface card which provides high speed, full-duplex, multi-protocol serial capability for PMC applications. The SIO4BX combines two multi-protocol Dual Universal Serial Controllers (USC®), 8 external FIFOs, and multi-protocol transceivers to provide four fully independent asynchronous or synchronous serial channels. These features, along with a high performance PCI interface engine, give the PMC66-SIO4BXR unsurpassed performance in a serial interface card.



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ORDERING INFORMATION:

PMC66 - SIO4BXR - <FIFO Size> - <TimeStamp > - <Temperature> - <Coating>

Option	Valid Selections	Description
FIFO Size:	48KLC	(software selectable) 4 Kb Tx / 8 Kb Rx per channel or 8 Kb Tx / 4 Kb Rx per channel
	64K	(software selectable) 8 Kb Tx / 16 Kb Rx per channel or 16 Kb Tx / 8 Kb Rx per channel
	256K	32 Kb Tx / 32 Kb Rx per channel
TimeStamp	<blank>	Internal Timestamp only (Standard)
	TS0	Front Panel TTL Timestamp Option
	TS1	PXI Timestamp Option TTL timestamp from PMC Connector
Temperature	<blank>	0°C to +70°C – Commercial (Standard)
	I	-40°C to +85°C – Industrial
Coating	<blank>	No Conformal Coating (Standard)
	C	Conformal Coating

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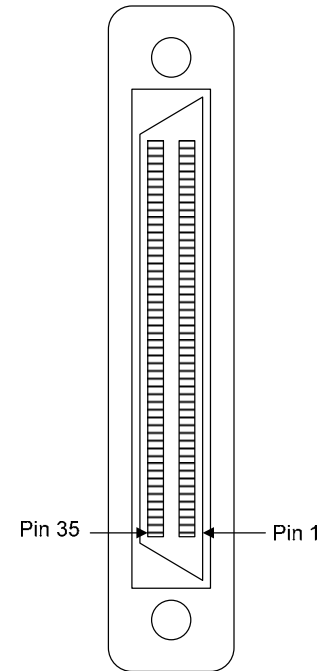
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REAR I/O CONNECTIONS:

FRONT PANEL USER I/O CONNECTIONS (J2):

Pin #	DTE Signal	DCE Signal	Pin #	DTE Signal	DCE Signal
1	Ch1 AuxC +		35	Ch3 AuxC +	
2	Ch1 AuxC -		36	Ch3 AuxC -	
3	Ch1 DCD +		37	Ch3 DCD +	
4	Ch1 DCD -		38	Ch3 DCD -	
5	Ch1 CTS +	Ch1 RTS +	39	Ch3 CTS +	Ch3 RTS +
6	Ch1 CTS -	Ch1 RTS -	40	Ch3 CTS -	Ch3 RTS -
7	Ch1 RxD +	Ch1 TxD +	41	Ch3 RxD +	Ch3 TxD +
8	Ch1 RxD -	Ch1 TxD -	42	Ch3 RxD -	Ch3 TxD -
9	Ch1 RxC +	Ch1 TxC +	43	Ch3 RxC +	Ch3 TxC +
10	Ch1 RxC -	Ch1 TxC -	44	Ch3 RxC -	Ch3 TxC -
11	Ch1 RTS +	Ch1 CTS +	45	Ch3 RTS +	Ch3 CTS +
12	Ch1 RTS -	Ch1 CTS -	46	Ch3 RTS -	Ch3 CTS -
13	Ch1 TxD +	Ch1 RxD +	47	Ch3 TxD +	Ch3 RxD +
14	Ch1 TxD -	Ch1 RxD -	48	Ch3 TxD -	Ch3 RxD -
15	Ch1 TxC +	Ch1 RxC +	49	Ch3 TxC +	Ch3 RxC +
16	Ch1 TxC -	Ch1 RxC -	50	Ch3 TxC -	Ch3 RxC -
17	Ch1 GND		51	Ch3 GND	
18	Ch2 GND		52	Ch4 GND	
19	Ch2 CTS +	Ch2 RTS +	53	Ch4 CTS +	Ch4 RTS +
20	Ch2 CTS -	Ch2 RTS -	54	Ch4 CTS -	Ch4 RTS -
21	Ch2 RxD +	Ch2 TxD +	55	Ch4 RxD +	Ch4 TxD +
22	Ch2 RxD -	Ch2 TxD -	56	Ch4 RxD -	Ch4 TxD -
23	Ch2 RxC +	Ch2 TxC +	57	Ch4 RxC +	Ch4 TxC +
24	Ch2 RxC -	Ch2 TxC -	58	Ch4 RxC -	Ch4 TxC -
25	Ch2 RTS +	Ch2 CTS +	59	Ch4 RTS +	Ch4 CTS +
26	Ch2 RTS -	Ch2 CTS -	60	Ch4 RTS -	Ch4 CTS -
27	Ch2 TxD +	Ch2 RxD +	61	Ch4 TxD +	Ch4 RxD +
28	Ch2 TxD -	Ch2 RxD -	62	Ch4 TxD -	Ch4 RxD -
29	Ch2 TxC +	Ch2 RxC +	63	Ch4 TxC +	Ch4 RxC +
30	Ch2 TxC -	Ch2 RxC -	64	Ch4 TxC -	Ch4 RxC -
31	Ch2 DCD +		65	Ch4 DCD +	
32	Ch2 DCD -		66	Ch4 DCD -	
33	Ch2 AuxC +		67	Ch4 AuxC +	
34	Ch2 AuxC -		68	Ch4 AuxC -	



**PMC66-SIO4BXR
User Connector**

Front Panel Connector (P2) – 68 Pin SCSI type connector (female).

Part Number: AMP/TYCO 787170-7.

Mating Connector: AMP/TYCO 749111-6 or equivalent.

Pinout shown for differential RS485/RS422 connections.

Single Ended signals (RS-423/RS-232) use the negative side (-) of the differential pair.

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PMC REAR I/O CONNECTIONS (P4):

Pin #	DTE Signal	DCE Signal	Pin #	DTE Signal	DCE Signal
1	Ch1 TxC -	Ch1 RxC -	33	Ch3 TxC -	Ch3 RxC -
2	Ch1 TxC +	Ch1 RxC +	34	Ch3 TxC +	Ch3 RxC +
3	Ch1 TxD -	Ch1 RxD -	35	Ch3 TxD -	Ch3 RxD -
4	Ch1 TxD +	Ch1 RxD +	36	Ch3 TxD +	Ch3 RxD +
5	Ch1 RTS -	Ch1 CTS -	37	Ch3 RTS -	Ch3 CTS -
6	Ch1 RTS +	Ch1 CTS +	38	Ch3 RTS +	Ch3 CTS +
7	Ch1 AuxC -	Ch1 AuxC -	39	Ch3 AuxC -	Ch3 AuxC -
8	Ch1 AuxC +	Ch1 AuxC +	40	Ch3 AuxC +	Ch3 AuxC +
9	Ch1 DCD -	Ch1 DCD -	41	Ch3 DCD -	Ch3 DCD -
10	Ch1 DCD +	Ch1 DCD +	42	Ch3 DCD +	Ch3 DCD +
11	Ch1 RxC -	Ch1 TxC -	43	Ch3 RxC -	Ch3 TxC -
12	Ch1 RxC +	Ch1 TxC +	44	Ch3 RxC +	Ch3 TxC +
13	Ch1 RxD -	Ch1 TxD -	45	Ch3 RxD -	Ch3 TxD -
14	Ch1 RxD +	Ch1 TxD +	46	Ch3 RxD +	Ch3 TxD +
15	Ch1 CTS -	Ch1 RTS -	47	Ch3 CTS -	Ch3 RTS -
16	Ch1 CTS +	Ch1 RTS +	48	Ch3 CTS +	Ch3 RTS +
17	Ch2 TxC -	Ch2 RxC -	49	Ch4 TxC -	Ch4 RxC -
18	Ch2 TxC +	Ch2 RxC +	50	Ch4 TxC +	Ch4 RxC +
19	Ch2 TxD -	Ch2 RxD -	51	Ch4 TxD -	Ch4 RxD -
20	Ch2 TxD +	Ch2 RxD +	52	Ch4 TxD +	Ch4 RxD +
21	Ch2 RTS -	Ch2 CTS -	53	Ch4 RTS -	Ch4 CTS -
22	Ch2 RTS +	Ch2 CTS +	54	Ch4 RTS +	Ch4 CTS +
29	Ch2 AuxC -	Ch2 AuxC -	55	Ch4 AuxC -	Ch4 AuxC -
30	Ch2 AuxC +	Ch2 AuxC +	56	Ch4 AuxC +	Ch4 AuxC +
25	Ch2 DCD -	Ch2 DCD -	57	Ch4 DCD -	Ch4 DCD -
26	Ch2 DCD +	Ch2 DCD +	58	Ch4 DCD +	Ch4 DCD +
27	Ch2 RxC -	Ch2 TxC -	59	Ch4 RxC -	Ch4 TxC -
28	Ch2 RxC +	Ch2 TxC +	60	Ch4 RxC +	Ch4 TxC +
29	Ch2 RxD -	Ch2 TxD -	61	Ch4 RxD -	Ch4 TxD -
30	Ch2 RxD +	Ch2 TxD +	62	Ch4 RxD +	Ch4 TxD +
31	Ch2 CTS -	Ch2 RTS -	63	Ch4 CTS -	Ch4 RTS -
32	Ch2 CTS +	Ch2 RTS +	64	Ch4 CTS +	Ch4 RTS +

Pinout shown for differential RS485/RS422 connections.
 Single Ended signals (RS-423/RS-232) use the negative side (-) of the differential pair.

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