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Find the *General Standards PMC-HPDI32B-256K-P1-L2SFB* at our website: *Click HERE*

# PMC-HPDI32B-COS

**32 Bit Change of State Board**
***With RS422/RS485 Transceivers***



The PMC-HPDI32B-COS is a 32-bit parallel Change of State Detection board featuring high speed RS485 interface transceivers. The Change of State detection is can be customized to ignore specific bits and to provide an interrupt after a specified number of change of state events have occurred. The board will also function as a simple Logic Analyzer with a configurable trigger value and mask. The sample rate for both Change of State and Logic Analyzer is programmable from 20MHz down to 300Hz.

Received values are buffered in an 8K deep on-board FIFO which is easily accessed by the integrated a DMA Controller. After the DMA is initialized and started, the host CPU will be free to proceed with other duties and need to respond only to interrupts. The DMA controller is capable of transferring data to host memory using D32 transfers; whereas the FIFO memory provides a means for continuous transmission of data without interrupting the DMA or requiring intervention from the host CPU.

## *Features Include:*

- Selectable Change-Of-State or Logic Analyzer Operation.
- Bitwise Programmable Mask for COS Detection and Logic Analyzer Trigger
- 20 MHz Base Sample rate with Programmable Clock Divider.
- Programmable Event Counter for Change of State Events.
- Programmable Logic Analyzer Trigger
- Output Data Port that can be driven onto the cable on byte wide boundaries.
- A variety of device drivers are available, including VxWorks, Windows, and Linux.

General Standards Corporation
8302A Whitesburg Drive · Huntsville, AL 35802
Phone: (256)880-8787 or (800)653-9970
FAX: (256)880-8788
Email: sales@generalstandards.com



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### *Power Requirements (@25° C):*

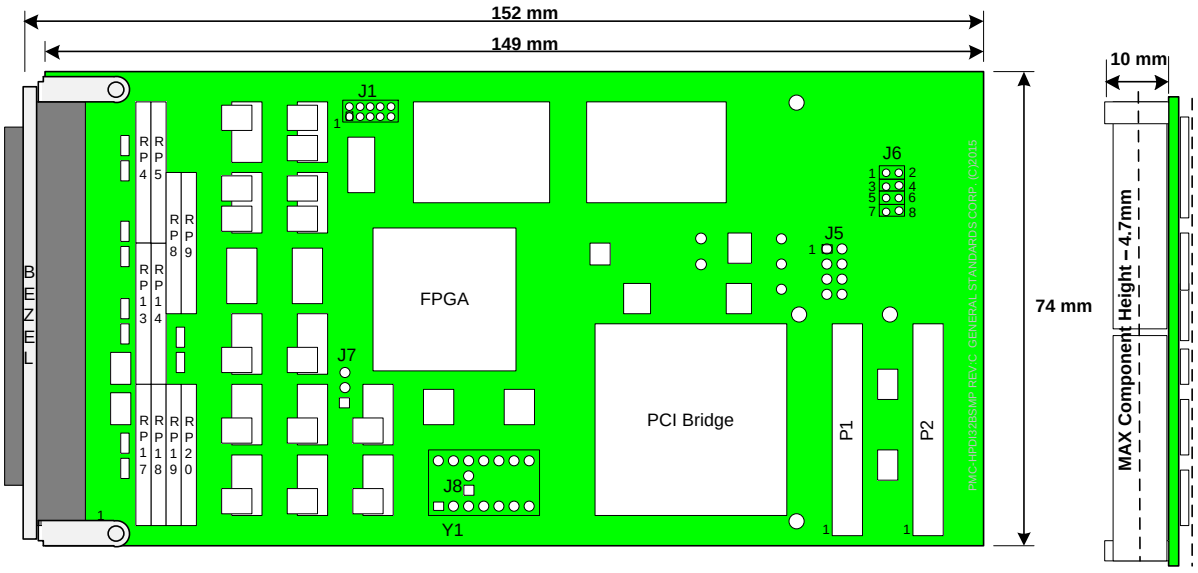
- +5.0 VDC at 1.5 Amps Max (typical 1.2 Amps)
- Typical Total Power Dissipation: ~6W

### *PMC Compatibility:*

- Conforms to PCI Specification 2.1, with D32 read/write transactions.
- Supports "plug-n-play" initialization.
- Single multifunction interrupt
- Supports DMA transfers as bus master.

### *Physical Characteristics:*

Conforms to PMC Specification
Length: 149.00 mm (5.866")
Width: 74.0 mm (2.913")
Height: 10 mm (0.394")




### *Environmental Specifications:*

| | |
|---|---|
| Ambient Temperature Range: | Operating: 0° to +70° C (Commercial Option)<br>-40° to +85° C (Industrial Option)<br>Storage: -40° to +85° C |
| Relative Humidity: | Operating: 0 to 80%, non-condensing<br>Storage: 0 to 95%, non-condensing |
| Altitude: | Operation to 10,000 ft |

### *Cooling Requirements:*

Conventional air-cooling, 200 LPFM

### *Ordering Information:*

**PMC-HPDI32B-COS - <Temperature>**

| Option | Valid Selections | Description |
|---|---|---|
| Temperature | <blank> | 0°C to +70°C – Commercial (Standard) |
| | I | -40°C to +85°C – Industrial |

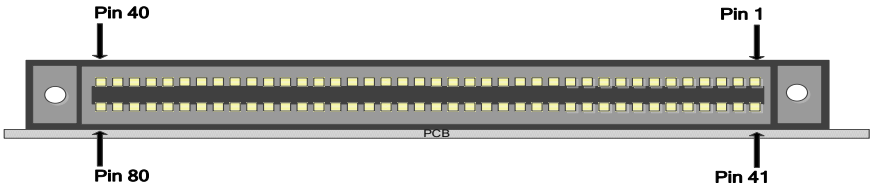
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### *System I/O Connections:*

User I/O Connector: 80 pin IO connector (female)
Part Number: Robinson Nugent P50E-080-P1-SR1-TG
Mating Connector: Robinson Nugent P50E-080-S-TG (50 mil twisted pair)
Robinson Nugent P25E-080-S-TG (25 mil non-twisted pair)




| Pin # | Signal Name | Pin # | Signal Name |
|---|---|---|---|
| 1 | Unused | 41 | D12p |
| 2 | Unused | 42 | D12n |
| 3 | CMD0p | 43 | D13p |
| 4 | CMD0n | 44 | D13n |
| 5 | CMD1p | 45 | D14p |
| 6 | CMD1n | 46 | D14n |
| 7 | CMD2p | 47 | D15p |
| 8 | CMD2n | 48 | D15n |
| 9 | CMD3p | 49 | D16p |
| 10 | CMD3n | 50 | D16n |
| 11 | CMD4p | 51 | D17p |
| 12 | CMD4n | 52 | D17n |
| 13 | TX_ENABLEp | 53 | D18p |
| 14 | TX_ENABLEn | 54 | D18n |
| 15 | RX_ENABLEp | 55 | D19p |
| 16 | RX_ENABLEn | 56 | D19n |
| 17 | D0p | 57 | D20p |
| 18 | D0n | 58 | D20n |
| 19 | D1p | 59 | D21p |
| 20 | D1n | 60 | D21n |
| 21 | D2p | 61 | D22p |
| 22 | D2n | 62 | D22n |
| 23 | D3p | 63 | D23p |
| 24 | D3n | 64 | D23n |
| 25 | D4p | 65 | D24p |
| 26 | D4n | 66 | D24n |
| 27 | D5p | 67 | D25p |
| 28 | D5n | 68 | D25n |
| 29 | D6p | 69 | D26p |
| 30 | D6n | 70 | D26n |
| 31 | D7p | 71 | D27p |
| 32 | D7n | 72 | D27n |
| 33 | D8p | 73 | D28p |
| 34 | D8n | 74 | D28n |
| 35 | D9p | 75 | D29p |
| 36 | D9n | 76 | D29n |
| 37 | D10p | 77 | D30p |
| 38 | D10n | 78 | D30n |
| 39 | D11p | 79 | D31p |
| 40 | D11n | 80 | D31n |

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