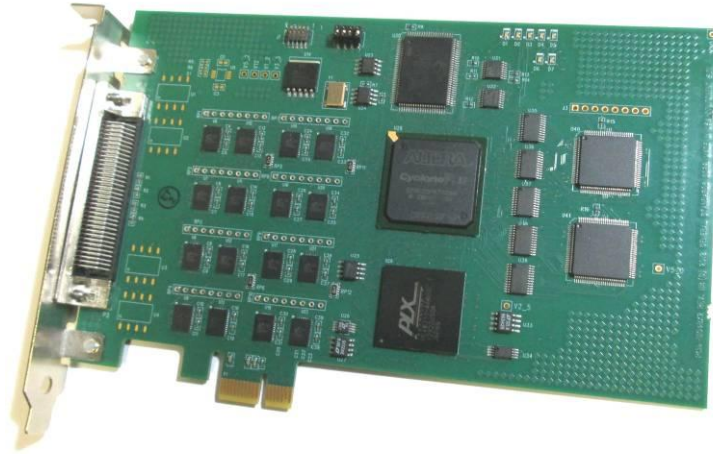


General Standards Corporation

High Performance Bus Interface Solutions

PCIe-DIO32A-S

**32 Port Digital I/O PCIe Card
With RS422/RS485 Transceivers**



The PCIe-DIO32A-S is digital IO card which provides 32 general purpose IO signals for RS422/RS485 applications.

Features:

- One Lane PCI Express (PCIe) Interface
- RS422/RS485 Differential Transceivers
- 32 IO Bits individually configurable as Inputs or Outputs
- Outputs can be individually tri-stated
- Inputs can be programmed to trigger an interrupt on Change of State (H-L and L-H)
- Interrupts can be individually programmed to trigger an output change on any or all Outputs
- SCSI type 68 pin front edge I/O Connector
- Breakout Board available
- User changeable Termination Resistors (120 Ohm installed) – blocks of four signals (SIPS)
- Available drivers include VxWorks, WinNT, Win2k, WinXP, Linux, and Labview
- Industrial Temperature Option Available

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):

- +3.3VDC ± 0.2 VDC at 1.5 Amps Max (typical 1.1 Amps)
- +12VDC ± 0.2 VDC at 0.05Amps Max (typical 0.03 Amps)
- Typical Total Power Dissipation: ~4W

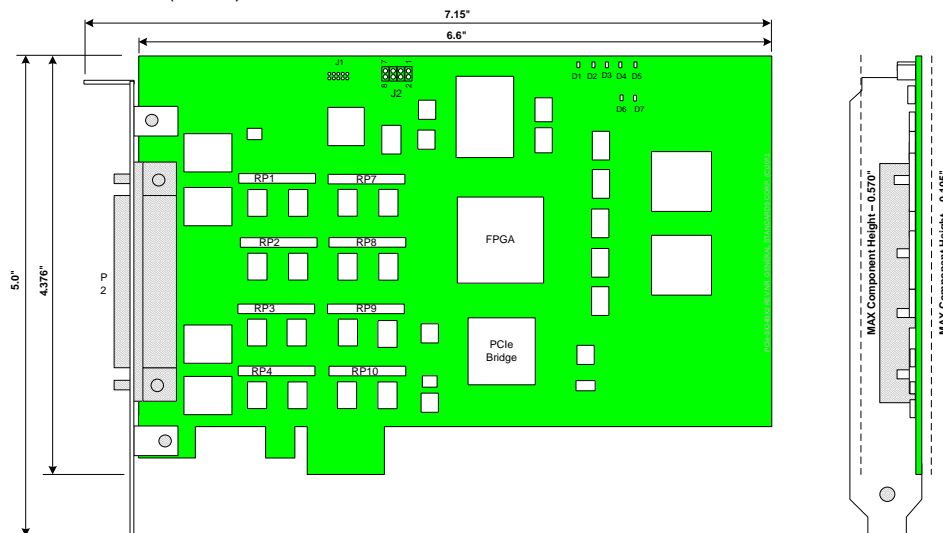
PCIe Compatibility:

- PCI Express Base Specification (Revision 1.0a)
- 1 lane PCIe support
- 128byte maximum payload support
- Auto Polarity reversal
- Link CRC support
- Flow control buffering
- PCIe transaction queues for eight outstanding TLPs
- Link/Device power management
- Legacy interrupt signaling

Physical Characteristics:

Conforms to PCIe Short Card Specification

Length: 167.65 mm (6.600")
 Width: 111.15 mm (4.376")



Environmental Specifications:

Ambient Temperature Range: Operating: 0° to +70° C (Commercial Option)
 -40° to +85° C (Industrial Option)
 Storage: -40° to +85° C

Relative Humidity: Operating: 0 to 80%, non-condensing
 Storage: 0 to 95%, non-condensing

Altitude: Operation to 10,000 ft

Cooling Requirements:

Conventional air-cooling, 200 LPFM

Ordering Information:

PCIe – DIO32A - S - <Temperature>

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

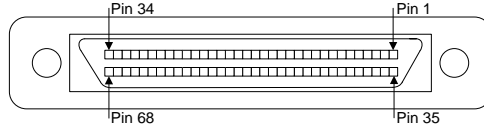
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System I/O Connections:

User I/O Connector: 68-pin SCSI connector (female) (P2)
 Part Number: AMP/TYCO 787170-7
 Mating Connector: AMP/TYCO 749111-6 (or equivalent)



Pin #	RS422/RS485	Pin #	RS422/RS485
1	D0n	35	D16n
2	D0p	36	D16p
3	D1n	37	D17n
4	D1p	38	D17p
5	D2n	39	D18n
6	D2p	40	D18p
7	D3n	41	D19n
8	D3p	42	D19p
9	D4n	43	D20n
10	D4p	44	D20p
11	D5n	45	D21n
12	D5p	46	D21p
13	D6n	47	D22n
14	D6p	48	D22p
15	D7n	49	D23n
16	D7p	50	D23p
17	GND1	51	GND3
18	GND2	52	GND4
19	D8n	53	D24n
20	D8p	54	D24p
21	D9n	55	D25n
22	D9p	56	D25p
23	D10n	57	D26n
24	D10p	58	D26p
25	D11n	59	D27n
26	D11p	60	D27p
27	D12n	61	D28n
28	D12p	62	D28p
29	D13n	63	D29n
30	D13p	64	D29p
31	D14n	65	D30n
32	D14p	66	D30p
33	D15n	67	D31n
34	D15p	68	D31p

Table 1- Front Panel (P2) IO Connections

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