

General Standards Corporation

High Performance Bus Interface Solutions

PCIe1 to PMC Adapter



Features:

- **Supports 32 bit PCI Bus**
- **Supports both 3.3v & 5v PCI Signaling (optional)**
- **Supports 33/66Mhz PCI Bus**
- **Supports Rear I/O**
- **Adapts a single-width PMC form factor to a 1 lane PCI Express (x1 link)**
- **The PCI Express interface supports 1 lane operating at 2.5 Gbps**
- **Extended temperature range (-40 to +85 degrees Celsius)**
- **Optional fan for additional cooling**

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8302A Whitesburg Drive · Huntsville, AL 35802

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PCIe & PCI Compatibility:

- PCI Local Bus Specification, Revision 3.0
- PCI Express Base Specification, Revision 1.0a
- PCI Express to PCI Bridge Specification, Revision 1.0

Electrical Characteristics:

The adapter supplies power to the PMC module from the PCIe bus connector:

Supplied to the PMC Module:		(Indicator, LED)
+3.3vdc	8.0A, max;	(LED D6)
+5vdc	– 8.0A, max;	(LED D7)
+12vdc	– 1.0A, max;	(LED D9)
-12vdc	– 400mA, max;	(LED D8)

LEDS (misc.)

These LEDs are used to monitor the PCIe bus.

D5– Always on, indicates 3.3v supply from PCIe bus.

D11– Only on, when a PCIe reset occurs.

Mechanical Characteristics:

Height: ~15.0 mm (0.59 in).

Depth: ~167.6 mm (6.60 in).

Width: ~106.7 mm (4.20 in).

Environmental Specifications:

Ambient Temperature Range:	Operating: -40 to +85 Degrees Celsius Storage: -65 to +150 Degrees Celsius
Relative Humidity:	Operating: 0 to 80%, non-condensing Storage: 0 to 95%, non-condensing

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Ordering Information:

Specify the basic product model number followed by an option suffix "-x-x", as indicated below. For example, model number "PCIe1 to PMC Adapter-1-1" describes a board, which has an external fan installed and VIO is set to +5v. Cables are available for the RIO feature. Contact the factory for more details.

Optional Parameter	Value	Specify Option As:
External Fan* (40x40x6, 5.2 cfm)	none	0 or leave blank
	external	1
VIO (PCI signal level)	+3.3v	0 or leave blank
	+5v	1

* Contact factory for additional cooling fan options.

General Standards Corporation assumes no responsibility for the use of any circuits in this product. No circuit patent licenses are implied. Information included herein supersedes previously published specifications on this product and is subject to change without notice.

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System Interface Connector

Table 1. The Rear I/O Connector

P5 Row A		P5 Row B	
P5 - PIN	P4 - PIN	P5 - PIN	P4 - PIN
A34	I/O - 1	B34	I/O - 2
A33	I/O - 3	B33	I/O - 4
A32	I/O - 5	B32	I/O - 6
A31	I/O - 7	B31	I/O - 8
A30	I/O - 9	B30	I/O - 10
A29	I/O - 11	B29	I/O - 12
A28	I/O - 13	B28	I/O - 14
A27	I/O - 15	B27	I/O - 16
A26	I/O - 17	B26	I/O - 18
A25	I/O - 19	B25	I/O - 20
A24	I/O - 21	B24	I/O - 22
A23	I/O - 23	B23	I/O - 24
A22	I/O - 25	B22	I/O - 26
A21	I/O - 27	B21	I/O - 28
A20	I/O - 29	B20	I/O - 30
A19	I/O - 31	B19	I/O - 32
A18	I/O - 33	B18	I/O - 34
A17	I/O - 35	B17	I/O - 36
A16	I/O - 37	B16	I/O - 38
A15	I/O - 39	B15	I/O - 40
A14	I/O - 41	B14	I/O - 42
A13	I/O - 43	B13	I/O - 44
A12	I/O - 45	B12	I/O - 46
A11	I/O - 47	B11	I/O - 48
A10	I/O - 49	B10	I/O - 50
A9	I/O - 51	B9	I/O - 52
A8	I/O - 53	B8	I/O - 54
A7	I/O - 55	B7	I/O - 56
A6	I/O - 57	B6	I/O - 58
A5	I/O - 59	B5	I/O - 60
A4	I/O - 61	B4	I/O - 62
A3	I/O - 63	B3	I/O - 64
A2	GND	B2	GND
A1	GND	B1	GND

System Mating Connector:

68-Pin 2-row 0.050" dual-ribbon cable socket
connector: Robinson Nugent
#P50E-068-S-TG, or equivalent.

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