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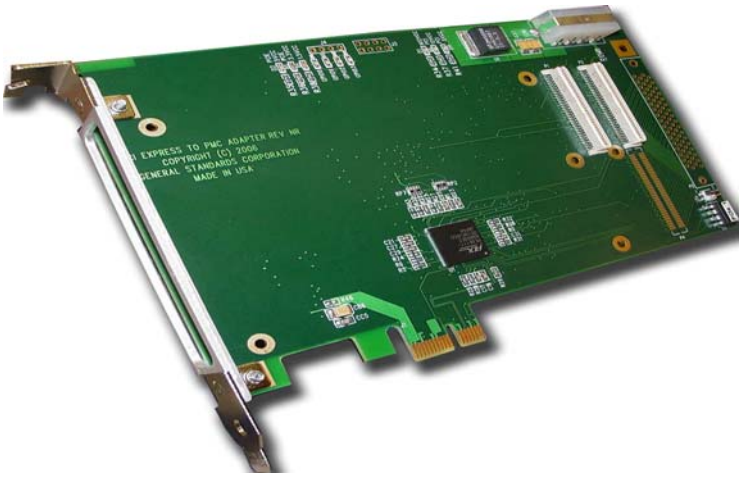
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General Standards Corporation

High Performance Bus Interface Solutions

PCIe to PMC Adapter



Features

- **Supports 32 bit PCI Bus**
- **Supports both 3.3v and 5v PCI Signaling**
- **Supports both 33Mhz and 66Mhz PCI Bus**
- **Optional Rear I/O Configuration available**
- **Adapts a single-width PMC form factor to a single lane PCI Express (x1 link)**
- **The PCI Express interface supports one lane operating at 2.5 Gbps**
- **Auxiliary ATX hard disk connector for additional power requirements**
- **Extended temperature range (-40 to +85 degrees Celsius)**

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

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 via two different sources; internal or external:

Internal; Supplied by the adapter:

+3.3vdc	–	3.0A, max; supplied by PCIe bus
+5vdc	–	400mA, max; converted from +12v
+12vdc	–	500mA, max; supplied by PCIe bus
-12vdc	–	400mA, max; converted from +5v
VIO	–	3.3v or 5v (determined by board options)

External; Supplied by the 4 pin hard disk connector, Molex 53109-0410.

+3.3vdc	–	* 3.0A, max; converted from +5v
+5vdc	–	* direct connection
+12vdc	–	* direct connection
-12vdc	–	* >400mA; converted from +5v
VIO	–	3.3v or 5v (determined by board options)

* determined by the customer provided power supply.

Physical Parameters

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

Ordering Information

Specify the basic product model number followed by an option suffix "-1", as indicated below. For example, model number “PCIe to PMC Adapter-1” describes a board with Rear I/O added to the board. Unless otherwise specified, the Adapter is preassembled not to include the “1” options (i.e. PCIe to PMC Adapter or PCIe to PMC Adapter-0-0-0). Cables are available for the RIO option. Contact the factory for more details.

Optional Parameter	Value	Specify Option As:
Rear I/O **(see table 1 for pin-out)**	without	0 or leave blank
	with	1
PCI bus signal level - VIO **(for PMC module)**	5 volt	0
	3.3 volt	1
Power Supply **(for PMC module)**	external	0
	internal	1

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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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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