

General Standards Corporation

High Performance Bus Interface Solutions

PCIe4 to PMC Adapter

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Features:

- **Supports 32 and 64 bit PCI Bus**
- **Supports 3.3v PCI Signaling (contact factory for 5V option)**
- **Supports both 33Mhz and 66Mhz PCI Bus**
- **Supports Rear I/O**
- **Adapts a single-width PMC form factor to a 4 lane PCI Express (x4 link)**
- **The PCI Express interface supports 4 lanes operating at 2.5 Gbps per lane**
- **Auxiliary ATX hard disk connector for additional power requirements**
- **Extended temperature range (-40 to +85 degrees Celsius)**

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Phone: (256) 880-8787 or (800) 653-9970 FAX: (256) 880-8788 Email: quotes@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 PCIe bus:		(Indicator, LED)	
+3.3vdc	–	3.0A, max;	(LED D6)
+5vdc	–	2.0A, max; converted from +12v	(LED D7)
+12vdc	–	1.0A, max;	(LED D9)
-12vdc	–	400mA, max; converted from +5v	(LED D8)

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

+3.3vdc	–	* 3.0A, max; converted from +5v	(LED D6)
+5vdc	–	* direct connection	(LED D7)
+12vdc	–	* direct connection	(LED D9)
-12vdc	–	* 400mA; converted from +5v	(LED D8)

* determined by the computer chassis power supply.

LEDS

These LEDs are used to monitor the PCIe bus.

D1 – Lane 3, always on, indicates proper link to the PCIe bus. Flashing – problem with the link.

D2 – Lane 2, always on, indicates proper link to the PCIe bus. Flashing – problem with the link.

D3 – Lane 1, always on, indicates proper link to the PCIe bus. Flashing – problem with the link.

D4 – Lane 0, always on, indicates proper link to the PCIe bus. Flashing – problem with the link.

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 "-1", as indicated below. For example, model number "PCIe4 to PMC Adapter-1" describes a board, that is factory configured, for the PMC module to be powered an internal supply. Cables are available for the RIO feature. Contact the factory for more details.

Optional Parameter	Value	Specify Option As:
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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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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