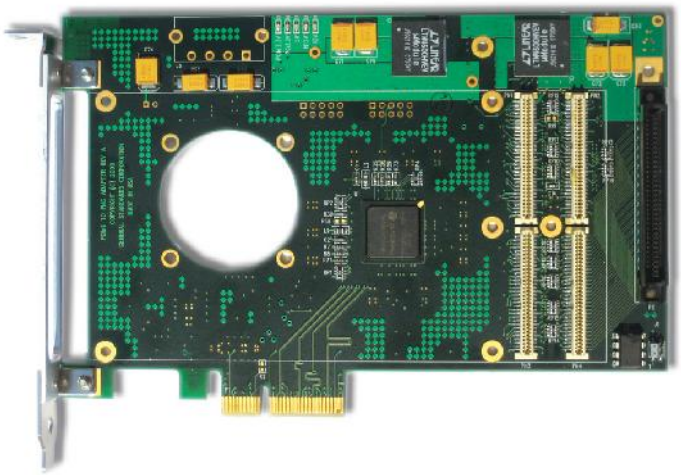
# PCIe4 to PMC Adapter



## Features:

- **Supports 32/64 bit PCI/PCI-X Bus**
- **Supports both 3.3v & 5v PCI Signaling**
- **Supports 33/66Mhz PCI Bus, 66/133Mhz PCI-X 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**
- **Extended temperature range (-40 to +85 degrees Celsius)**
- **Optional fan for additional cooling**

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## PCIe & PCI Compatibility:

- PCI Local Bus Specification, Revision 3.0
- PCI Express Base Specification, Revision 1.1
- PCI Express to PCI Bridge Specification, Revision 1.0

## Electrical Characteristics:

The adapter supplies power to the PMC module via internal power supplies:

| Supplied by PCIe bus: | | | **(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) |

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**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.

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## 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 "-x-x", as indicated below. For example, model number “PCIe4 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.

This spec sheet comprises/provides the entire documentation needed for supporting this product.

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.