# PMC-to-PC/104-Plus Adapter
## User Manual/Specification
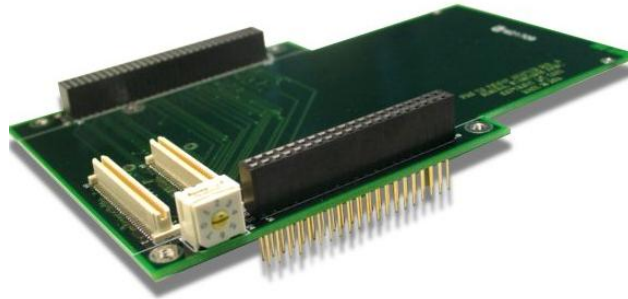


The PMC-to-PC/104-Plus Adapter accommodates one PMC Card to a PC/104-Plus environment. The adapter is stackable and can be used with multiple devices.

## PCI Device and Interrupt Assignment

With this product, the device identification and interrupt lines are controlled by the position of the selection switch located at one edge of the module. The selection switch allows the board to be configured as one of four unique devices in a PC104-*Plus* stack. Positions 0 through 3 provide four unique bus-access configurations, while positions 4 through 7 are unused. The exact relationship or mapping of switch positions and slot-specific signals may vary among manufacturers of PC104-*Plus* motherboards.

In the PC104-Plus stacking configuration, each of up to four modules is assigned specific communication signals as described in Paragraph 3.2.2 of the PC/104-*Plus* specification, Version 1.2. Because of the stack-through nature of the bus, slot-specific signals are duplicated for each plug-in module, and include IDSEL[3:0], CLK[3:0], REQ*[2:0], GNT*[2:0] and INT[A-D].

**Compatibility:** Conforms to PCI Specification 2.3, and the PC/104-Plus Specification 1.2 "Bus-compatible".

**Physical Characteristics** (Overall, excluding spacers)**:**

| | |
|---|---|
| Height: | 23.3 mm (0.92 in) |
| Width: | 96.0 mm (3.78 in) |
| Depth: | 149.0 mm (5.87 in) (Exceeds standard depth by 2.32 in, to allow a PMC product to be adapted) |

## Environmental Specifications

| | | |
|---|---|---|
| Ambient Temperature Range: | Operating: | -40 to +85 degrees Celsius |
| | Storage: | -40 to +85 degrees Celsius |
| Relative Humidity: | Operating: | 0 to 80%, non-condensing |
| | Storage: | 0 to 95%, non-condensing |
| Altitude: | | Operation to 10,000 ft. |
| Cooling: | | Conventional convection cooling |

## ORDERING INFORMATION

Specify the basic product model number followed by an option suffix "-A-B-C", as indicated below. For example, model number "PMC-to-PC104P Adapter –0 –0 –0" describes a board with ISA, w/o RIO and PCI installed. If no options are desired, then use only the basic product model number when ordering.

| Optional Parameter | Value | Specify Option As: |
|---|---|---|
| ISA Connector | ISA installed | A=0 or leave blank |
| | ISA not installed | A=1 |
| Rear I/O | RIO not installed | B=0 or leave blank |
| | RIO installed | B=1 |
| PCI connector (stackable or non-stackable) | Stackable (default) Male & Female installed | C=0 or leave blank |
| | Non-Stackable (Male only) | C=1 |
| | Non-Stackable (Female only) | C=2 |

## SYSTEM I/O CONNECTIONS

**Table 1.  System Connector Pin Functions**

| CONN1 PIN | P4A4 PIN | CONN1 PIN | P4A4 PIN |
|---|---|---|---|
| 34 | I/O – 1 | 34 | I/O – 2 |
| 33 | I/O – 3 | 33 | I/O – 4 |
| 32 | I/O – 5 | 32 | I/O – 6 |
| 31 | I/O – 7 | 31 | I/O – 8 |
| 30 | I/O – 9 | 30 | I/O – 10 |
| 29 | I/O – 11 | 29 | I/O – 12 |
| 28 | I/O – 13 | 28 | I/O – 14 |
| 27 | I/O – 15 | 27 | I/O – 16 |
| 26 | I/O – 17 | 26 | I/O – 18 |
| 25 | I/O – 19 | 25 | I/O – 20 |
| 24 | I/O – 21 | 24 | I/O – 22 |
| 23 | I/O – 23 | 23 | I/O – 24 |
| 22 | I/O – 25 | 22 | I/O – 26 |
| 21 | I/O – 27 | 21 | I/O – 28 |
| 20 | I/O – 29 | 20 | I/O – 30 |
| 19 | I/O – 31 | 19 | I/O – 32 |
| 18 | I/O – 33 | 18 | I/O – 34 |
| 17 | I/O – 35 | 17 | I/O – 36 |
| 16 | I/O – 37 | 16 | I/O – 38 |
| 15 | I/O – 39 | 15 | I/O – 40 |
| 14 | I/O – 41 | 14 | I/O – 42 |
| 13 | I/O – 43 | 13 | I/O – 44 |
| 12 | I/O – 45 | 12 | I/O – 46 |
| 11 | I/O – 47 | 11 | I/O – 48 |
| 10 | I/O – 49 | 10 | I/O – 50 |
| 9 | I/O – 51 | 9 | I/O – 52 |
| 8 | I/O – 53 | 8 | I/O – 54 |
| 7 | I/O – 55 | 7 | I/O – 56 |
| 6 | I/O – 57 | 6 | I/O – 58 |
| 5 | I/O – 59 | 5 | I/O – 60 |
| 4 | I/O – 61 | 4 | I/O – 62 |
| 3 | I/O – 63 | 3 | I/O – 64 |
| 2 | GND | 2 | GND |
| 1 | GND | 1 | GND |

**CONN 1 ROW-A** (left two columns) / **CONN1 ROW-B** (right two columns)

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