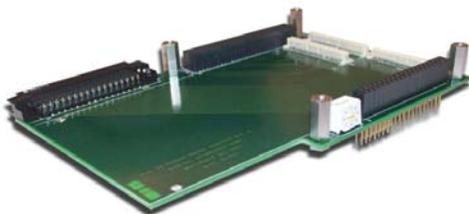


General Standards Corporation

High Performance Bus Interface Solutions

PMC-to-PC/104-Plus Adapter RIO180 User Manual/Specification



This "PMC-to-PC/104-Plus Adapter RIO180" has been rotated 180 degrees from the originally designed "PMC-to-PC/104-Plus Adapter" and also includes optional RIO (Rear I/O).

The PMC-to-PC/104-Plus Adapter RIO180 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].

NOTE:

If this product is to be used with a PrPMC card and the "Monarch" option has been requested, all of the INT[A-D] signals will be routed between the PrPMC and the PCI bus connectors directly. Also, pin 64 of P2 will be grounded to enable the monarch features of a Processor PMC (Monarch pin). No other signals are changed with this option.

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

Physical Specifications (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

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

General Standards Corporation

High Performance Bus Interface Solutions

Altitude:
Cooling:

Operation to 10,000 ft.
Conventional convection cooling

ORDERING INFORMATION

Specify the basic product model number followed by an option suffix "-No RIO", as indicated below. For example, model number "PMC-to-PC104P Adapter RIO180 - NoRIO" describes a board without RIO 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 not installed	- no ISA
RIO Connector	RIO not installed	- no RIO
Monarch (when used w/PrPMC)	Monarch installed	- monarch

“- monarch” enables the monarch features of a Processor PMC.

SYSTEM I/O CONNECTIONS

Table 1. System Connector Pin Functions

CONN1 ROW-A		CONN1 ROW-B	
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

System Mating Connector:

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