

## PMC to PCI Adapter with J4 Connector Breakout

### FEATURES

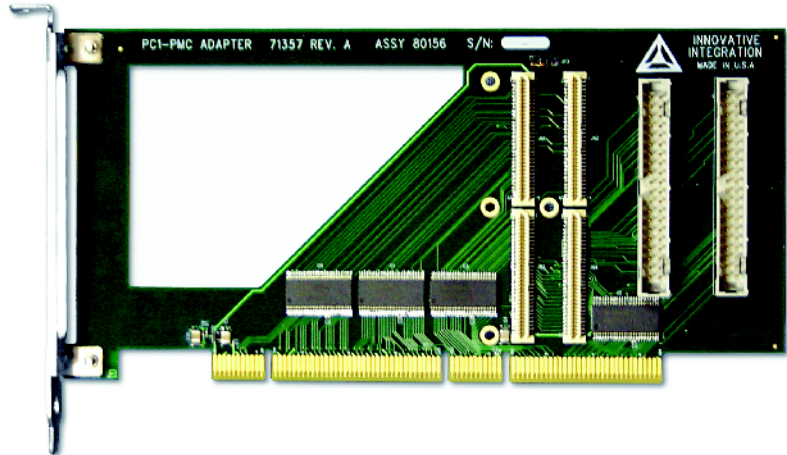
- ◆ Adapt one PMC to a PCI slot
- ◆ Universal slot support: 3V/5V, 64/32 bit, 66 MHz
- ◆ J4 connector breakout to two IDC40
- ◆ IEEE 1384 PMC mechanicals
- ◆ Robust end bracket
- ◆ Large opening under PMC improves forced air cooling.
- ◆ 1/2 size PCI card

### APPLICATIONS

- ◆ Add PMCs to standard PCI systems
- ◆ Custom interfaces to PMC J4

### SOFTWARE

- ◆ Adapter is fully transparent to all software and does NOT require any drivers of its own



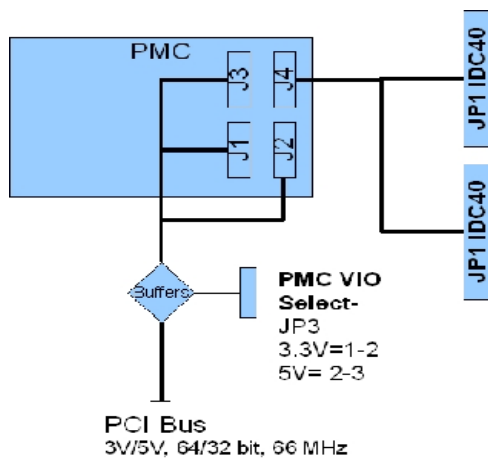
### DESCRIPTION

The PCI-PMC adapter allows a standard IEEE1384 PMC module to be used in a PCI slot. The J4 connector breakout provides convenient access to all J4 signals through two IDC40 connectors.

The PCI interface supports 3V or 5V signaling, and 64 bit, 66MHz operation to the PMC. Signaling to the PMC is selectable to be 3V or 5V by a jumper on the card. All PMC power is directly from the PCI bus.

The PCI-PMC adapter is completely software transparent and does not require any drivers of its own. All PMC software will run when the adapter is used.

The PMC mounts securely to the adapter using standoffs and with the end bracket. The bracket mates to standard PMC end brackets and supports an EMI gasket. All connectors from the PMC end bracket are fully accessible.



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# PCI\_PMC Adapter

This electronics assembly can be damaged by ESD. Innovative Integration recommends that all electronic assemblies and components circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.



ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

## ORDERING INFORMATION

Product	Part Number	Description
PCI-PMC Adapter	80156-0	PCI-PMC Adapter
Breakout and Cable	80022-3	Screw terminal assembly and 36" ribbon cable

PMC Power from PCI Bus	
3.3V	10A max
5V	5A max
+12V	1A max
-12V	1A max
J4 Digital IO	
Total Number of Bits	64
Connectors	JP1 and JP2
Connector Types	IDC40, shrouded, polarized male 0.1 in pin spacing 2 rows of 20 pins

\*\* PMC cooling may be required

Physicals	
Form Factor	PCI half card
Size	3.77 x 7.6 in
Weight	80g

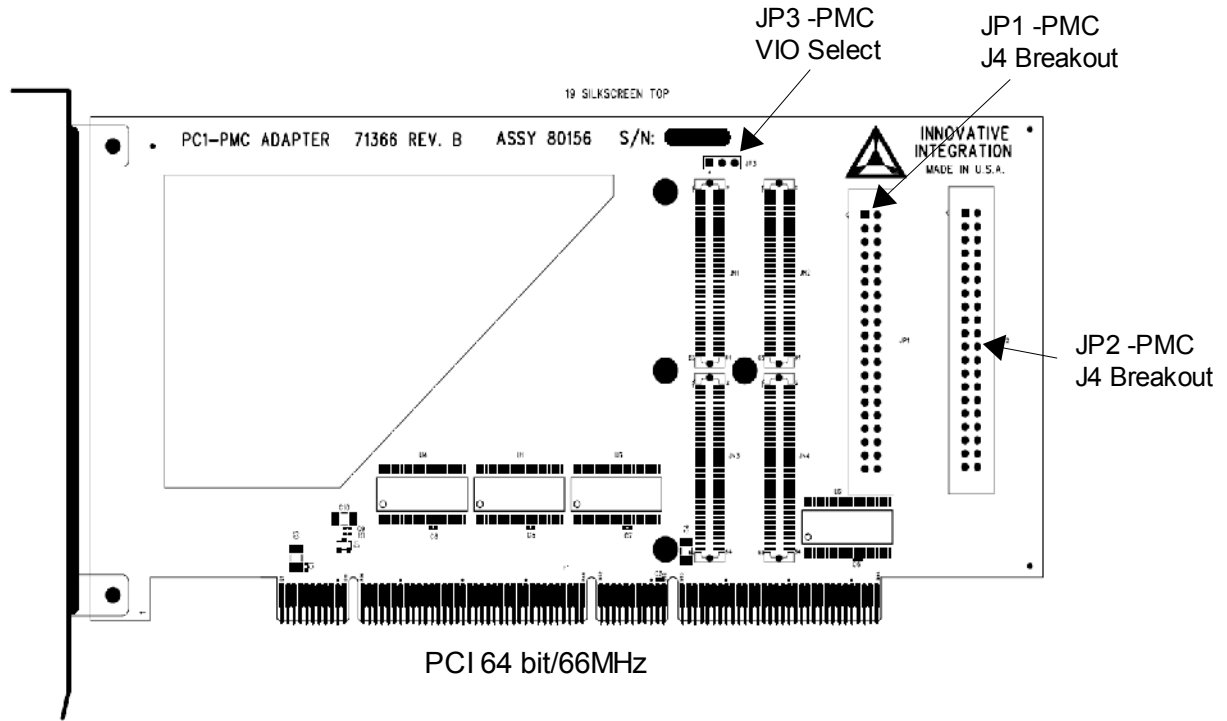
### Selecting PMC IO Voltage

JP3 is used to select the PCI signaling level to the PMC.

PCI VIO	JP3 Jumper Position
3.3V	1-2
5V	2-3

A standard 0.1 inch jumper is used. Pins are 0.025 in square.

**Caution:** incorrect setting may damage PMC

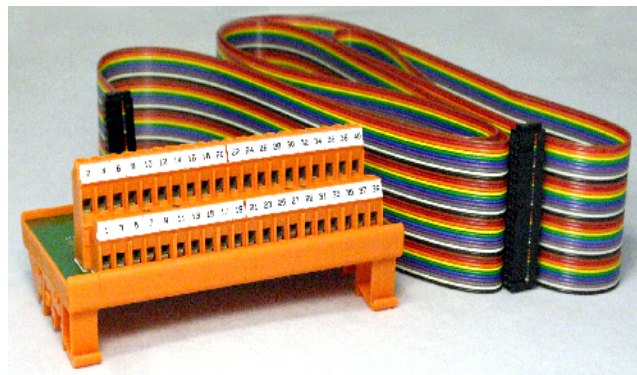


## Applications Information

### Cables

The J4 breakout uses ribbon cable assemblies mating to the JP1 and JP2 connectors. Innovative offers a cable assembly and screw terminal assembly for convenience (P/N 80022-3).

Ribbon cables are usually limited to less than a few MHz for 1 meter lengths when using single ended signals. Cable termination should be considered for signals with high slew rates.



## JN4 Breakout Connectors

JP1 and JP2 provides connection to the PMC JN4 connector. The 64 signals from JN4 are routed as shown in the following table.

Connector: 3M N2540-6002RB or equivalent, 40 pin dual row 0.1 inch pin spacing shrouded center polarized header  
 Mating connector: AMP 111623-9 or equivalent

JN4 Pin Number	JP1/JP2 Pin Number	JN4 Pin Number	JP1/JP2 Pin Number
1	JP1 pin 1	33	JP2 pin 1
2	JP1 pin 2	34	JP2 pin 2
3	JP1 pin 3	35	JP2 pin 3
4	JP1 pin 4	36	JP2 pin 4
5	JP1 pin 5	37	JP2 pin 5
6	JP1 pin 6	38	JP2 pin 6
7	JP1 pin 7	39	JP2 pin 7
8	JP1 pin 8	40	JP2 pin 8
9	JP1 pin 11	41	JP2 pin 11
10	JP1 pin 12	42	JP2 pin 12
11	JP1 pin 13	43	JP2 pin 13
12	JP1 pin 14	44	JP2 pin 14
13	JP1 pin 15	45	JP2 pin 15
14	JP1 pin 16	46	JP2 pin 16
15	JP1 pin 17	47	JP2 pin 17
16	JP1 pin 18	48	JP2 pin 18
17	JP1 pin 21	49	JP2 pin 21
18	JP1 pin 22	50	JP2 pin 22
19	JP1 pin 23	51	JP2 pin 23
20	JP1 pin 24	52	JP2 pin 24
21	JP1 pin 25	53	JP2 pin 25
22	JP1 pin 26	54	JP2 pin 26
23	JP1 pin 27	55	JP2 pin 27
24	JP1 pin 28	56	JP2 pin 28
25	JP1 pin 31	57	JP2 pin 31
26	JP1 pin 32	58	JP2 pin 32
27	JP1 pin 33	59	JP2 pin 33
28	JP1 pin 34	60	JP2 pin 34
29	JP1 pin 35	61	JP2 pin 35
30	JP1 pin 36	62	JP2 pin 36
31	JP1 pin 37	63	JP2 pin 37
32	JP1 pin 38	64	JP2 pin 38

The following pins are tied to ground: JP1 pins 9, 10, 19, 20, 29, 30, 39, 40 and JP2 pins 9, 10, 19, 20, 29, 30, 39, 40.



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