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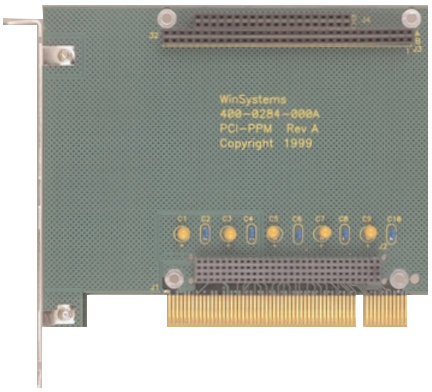
WinSystems®
PC/104-*Plus* MODULE

PCI-PPM
PC/104-*Plus* Module Adapter Card

FEATURES

- Allows a PC/104-*Plus* module to be installed in a standard PCI slot.
- Permits convenient debugging of PC/104-*Plus* modules
- Direct Bus-to-Bus interface
- Standard PCI Bus card size
- No configuration jumpers or switches to set

The PCI-PPM is a multipurpose development tool that allows a PC/104-*Plus* module to be used in a standard PCI Bus computer backplane. It is a standard PCI Bus card that supports 32-bit wide data transfers to and from a PC/104-*Plus* module. This adapter allows easy testing and development in a PC environment.



FUNCTIONAL CAPABILITY

PCI Interface Board - The PCI-PPM adapter is a standard PCI card that mounts in a PCI-compatible backplane. It wires the PCI power, control, and data signals directly to a PC/104-*Plus*, non-stackthrough connector.

There is also a PC/104 connector at the top of PCI-PPM board. This connector serves as additional mechanical support for a PC/104-*Plus* module. It does not have any power, data lines, or control signals wired to it

A PC/104-*Plus* module will plug "piggyback" into the connector(s) to join the two boards together. The boards can be fastened together with four threaded 0.60-inch spacers if a stronger mechanical bond is necessary. Sufficient clearance is provided to allow I/O cables to be connected to the PC/104-*Plus* module. Although the PCI-PPM plugs into a single slot, the height of a two-board stack height will require at least 2 or perhaps 3 slots of the PCI backplane.

Key differences between PCI and PC/104-*Plus* are:

- The PCI bus connector is a 4 x 30 (120-pin) 2-mm pitch stackthrough as opposed to the 124-pin edge connector or the standard 32-bit PCI Local Bus
- The 120-pin PCI does not support 64-bit extensions: JTAG, PRSENT, or CLKRUN signals.

PC/104-*Plus* is a PCI implementation on a stackable board while maintaining the 3.6" x 3.8" form factor. PC/104-*Plus* modules can also include the original PC/104 connectors to allow the most system configuration flexibility.

Applications - The PCI-PPM Bus Adapter's main application is for software development and debugging of PC/104-Plus systems. A host PCI-based PC serves as an "In Systems Emulator" since it has direct access to the PC/104-*Plus* module operating at full bus speed. Therefore, the programmer has full access to a vast selection of assemblers, high-level languages, debuggers, and other productivity tools. This can reduce the expense of buying a development system by allowing a designer to uses an existing desk top PC.

SPECIFICATIONS

Mechanical
Dimensions: 5.1 x 4.2 inches (bracket excluded)

Environmental
Operational Temperature: -40°C to +85°C
Non-condensing relative humidity: 5% to 95%

ORDERING INFORMATION

PCI-PPM	PCI to PC/104-Plus Adapter Board

WinSystems, Inc.
715 Stadium Drive ● Arlington, Texas 76011 ● (817) 274-7553 ● http://www.winsystems.com

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