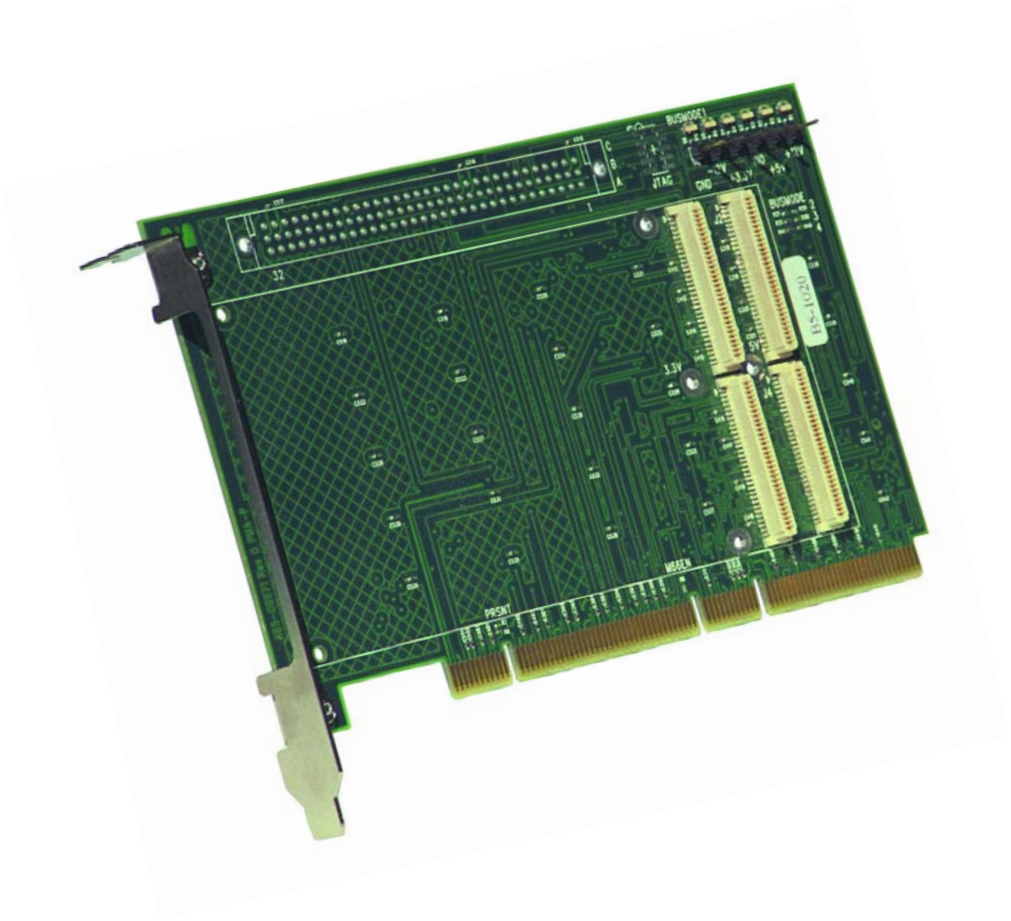
Rastergraf

PMA-P

PMC to PCI Adapter Board



Features

- 32 and 64-bit PCI Bus compatibility
- Test Points and Power LEDs
- Optional VME P2 connector
- PCI/PMC JTAG port connector

Applications

- Eases debugging of PMC boards
- Enables use of low cost PCs for PMC development
- Ideal for deploying CWCEC PMC graphics solutions

The PMA-P

The PMA-P is a single slot PMC-to-PCI adapter board. It enables any 32-bit or 64-bit PMC (PCI Mezzanine Card) module to be plugged into a standard PCI slot.

The PMA-P is designed to function as a transparent extension to the PCI bus. As such, it is a passive adapter board and has no PCI-to-PCI bridge. The carrier's PCI bus is connected directly to the PMC card's PCI bus. Great care was taken to ensure signal integrity, impedance control, low noise, and matched PCI trace length.

The PMA-P provides the full 64-bit interconnect between the PCI edge connector and the PMC's connector set. Jumpers can be installed to enable 66 MHz mode, and to set PCI PRSNT and PMC BUSMODE.

Separate power planes are provided for +5V and ground. Bypass capacitors are located at regular intervals across the board and at all PMC and PCI power pins, including +12V, -12V, +5V, +3.3V, and VIO.

To aid in debugging, the PMA-P has Test Point pins and LED indicators for BUSMODE1, +12V, -12V, +5V, +3.3V and VIO. It also has a connector for the JTAG port. PMC Index Pin holes are provided for both 3.3V and 5V PMC signaling pins so that the PMA-P can be configured for either bus environment.

As the PMA-P does extend the length of the PCI bus, Peritek recommends that users place the board at the end of the computer's local bus, and deploy a single PMA-P card per system.

An optional VME P2-type connector can be included which "breaks out" the User I/O signals on the PMC J4 connector.

Although it is a passive addition to the PCI bus, the PMA-P does provide optional local 3.3V generation because many PCI bus machines do not supply it.

Rastergraf also makes an active (bridged) dual-PMC site CompactPCI product, the PMB-CPMC-to-CompactPCI adapter. Also available are passive (bridgeless) single PMC slot PCI (PMA-P) and CompactPCI (PMA-C) boards. Please check our web site for more information: http://www.rastergraf.com.

Product Specifications

Form Factor	Single slot PCI
PCI Compatibility	Revision 2.2, 33/66 MHz, 32/64 bit PCI
PMC Compatibility	IEEE 1386-2001. Universal signaling (3.3V or 5V VIO)
PMC Connectors	J1-J4
Pn4 to "VME P2" Connector	optional
Environment	
	Operating temperature: 0°C to 70°C Storage temperature: -40°C to +85°C Humidity: 5% - 95% non-condensing

Ordering Information

Standard Configurations:

PMA-P
Single-slot PMC-to-PCI adapter board, PMC connectors, JTAG connector, indicator LEDs.

PMA-P/P2
Single-slot PMC-to-PCI adapter board, VMEbus P2-style connector with PMC J4 user I/O connections, JTAG connector, indicator LEDs.

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