



Features

- 32 and 64-bit CompactPCI Bus compatibility
- Test Points and Power LEDs
- 6U faceplate option

Applications

- Eases debugging of PMC boards
- Enables use of PMC boards on CompactPCI systems
- Ideal for deploying Rastergraf PMC graphics solutions

The PMA-C

The Rastergraf PMA-C is a PMC-to-CompactPCI adapter board. It enables any 32-bit or 64-bit PMC (PCI Mezzanine Card) module to be plugged into a standard 3U or 6U CompactPCI slot.

The PMA-C 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-C provides a full 64-bit interconnect between the CompactPCI J1 and J2 and the PMC 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 CompactPCI power pins, including +12V, -12V, +5V, +3.3V, and VIO. Except for the bypass capacitors, the PMA-C does not provide any sort of power conditioning or regulation.

To aid in debugging, the PMA-C has Test Point pins and LED indicators for BUSMODE1, +12V, -12V, +5V, +3.3V and VIO. PMC Index Pin holes

are provided for both 3.3V and 5V PMC signaling pins so that the PMA-C can be configured for either bus environment.

As the PMA-C does extend the length of the CompactPCI bus, Rastergraf recommends that users place the board at the end of the computer's local bus, and deploy a single PMA-C card per system. Rastergraf can also supply a 6U, dual PMC site carrier with an on-board bridge, which provides the best in signal integrity.

While the PMA-C is a 3U board, most customers use 6U backplanes. Therefore, the standard PMA-C model is supplied with a 6U faceplate. A version with a 3U faceplate is also available.

Rastergraf's carrier product line includes passive (unbridged) single PMC slot carriers for PCI (PMA-P) and CompactPCI (PMA-C). Rastergraf also makes active (bridged) carriers: the PMB-P, a single PMC slot for PCI, and the PMB-C, a dual-PMC site for CompactPCI.

Please check our web site for more information:
<http://www.rastergraf.com>.

Product Specifications

Form Factor	3U CompactPCI
PCI Compatibility	Revision 2.1, PCI 64
CompactPCI Compatibility	PICMG 2.0 R3.0
PMC Compatibility	IEEE 1386-2001. Universal signaling (3.3V or 5V VIO)
PMC Connectors	J1, J2, J3
CompactPCI Connectors	J1, J2
Environment	Operating temperature: 0°C to 70°C Storage temperature: -40°C to +85°C Humidity: 5% - 95% non-condensing

Ordering Information

Standard Configuration:

PMA-C/6U

PMC-to-3U CompactPCI adapter board, PMC connectors, indicator LEDs, 6U faceplate.

PMA-C/3U

PMC-to-3U CompactPCI adapter board, PMC connectors, indicator LEDs, 3U faceplate.

Important Notices:

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The PMA-C is manufactured and sold under license from Curtiss-Wright Controls Embedded Computing. Contact Rastergraf, Inc. for additional information.

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