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P0CC1
PMC Carrier Card

RADSTONE MEZZANINE



- Supports *PPzero* PCI extension
- Two PMCs per card
- Front or Rear I/O
- 5 Ruggedization Levels
- Air or Conduction-cooled versions

Product Overview

The P0CC1 is a 6U PMC (PCI Mezzanine Card) Carrier which can accommodate 2 PMC's and is compatible with Radstone's ***PPzero*** technology. Up to 4 P0CC1 carrier cards can be used with one Single Board Computer, allowing access to a maximum of 9 PMC's from the SBC. This offers easy system upgrade at low incremental cost, using Radstone's proven range of SBC's and PMC's designed for Networking, Graphics, Signal Processing, and other standard or customized I/0 functions.

The ***PPzero*** concept realizes PCI extension over the P0 connector of Radstone's standard range of 6U VME Single Board Computers. ***PPzero*** can be used to achieve straightforward PCI extension to P0CC1 carrier cards in order to access additional PMC's, or for high bandwidth peer multiprocessing over PCI. See Radstone's ***PPzero*** data sheet for full details.

Within the ***PPzero*** implementation, the P0CC1 is attached via its P0 connector to a host PCI infrastructure. This is provided by an SBC fitted with a PMCPCI (a half size PMC adapter card), which links the SBCs internal PCI to a P0 PCI backplane. The SBC is plugged into the master slot of the P0BP range of P0 PCI backplanes, the P0CC1s being plugged into any of the other available slots on the same PCI backplane. The P0CC1 cards and the PMCPCI adaptes both employ PCI-to-PCI bridges to create secondary PCI busses, which support concurrent transactions with their primary PCI busses. These bridge chips also allow buffering of PCI data and addresses for posted memory write operations. The primary bus for the PMCPCI adapter is that of the SBC, its secondary bus forming the P0 PCI backplane bus, which is also the primary bus for all of the attached P0CC1 cards. The secondary bus on each P0CC1 is connected to its PMC sites.

Offered in five air and conduction-cooled ruggedization levels, the P0CC1 offers fully compatible system expansion for the PPCx family of SBC's, providing both front and rear PMC I/O. The high density rear I/O is achieved using 5 row VME64 connectors, (the I/O actually being on P2). Full front and rear I/O is available on air-cooled versions, with some limited front I/O also being available for those conduction-cooled PMC's which have suitable connectors.

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Why settle for less

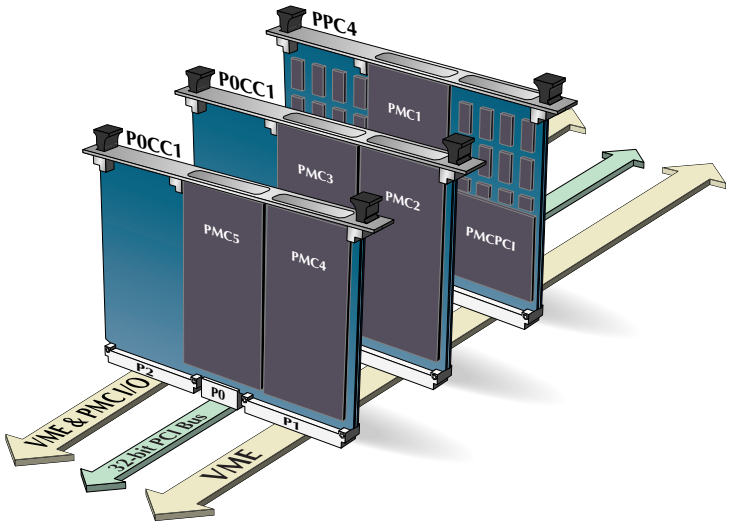


Figure 1. P0CC1 Functional Diagram

Technical Specification

Form Factor	Single slot 6U VME board
PCI-to-PCI Bridge	Digital 21150
PMC Sites	2 single or 1 double width
High Density Rear I/O	5-row VME64 P1 and P2 and type A or B P0 connector
Power Requirements	+5V (+5%, -2.5%)
Weight	Approximately 460gms

Ordering Information

Note: All P0CC1s are designed to be used with a PMCPCI bridge and a P0BP1 backplane, both of which must be ordered separately.

POCC1-1000A	6U PMC Carrier. Level 1 for use with air-cooled PMCs & PPCs fitted with PMCPCI & P0BP1 J0 modules. 2 PMC slots, front I/O, 5 row P1, P2 and type A 80 way P0 fitted. PMC1 46 pins routed to P2 rows Z & D; PMC2 64 pins routed to P2 rows A & C
POCC1-2000A	Air Cooled Ruggedization Level 2 as above
POCC1-3000A	Air Cooled Ruggedization Level 3 as above
POCC1-4000A	Conduction Cooled Ruggedization Level 4 as above, except only limited front panel I/O. See product manual for details
POCC1-5000A	Conduction Cooled Ruggedization Level 5 as above, except only limited front panel I/O. See product manual for details
POCC1-1100A	6U PMC Carrier. Level 1 for use with air-cooled PMCs & PPCs fitted with PMCPCI & P0BP1 J0 modules. 2 PMC slots, front I/O, 5 row P1, P2 and type A 80 way P0 fitted. PMC1 46 pins routed to P2 rows Z & D and 32 pins to P2 rows A & C; PMC2 32 pins routed to P2 rows A & C
POCC1-2100A	Air Cooled Ruggedization Level 2 as above
POCC1-3100A	Air Cooled Ruggedization Level 3 as above
POCC1-4100A	Conduction Cooled Ruggedization Level 4 as above, except only limited front panel I/O. See product manual for details
POCC1-5100A	Conduction Cooled Ruggedization Level 5 as above, except only limited front panel I/O. See product manual for details
Note: Limited front I/O to those PMCs that have suitably placed connectors	
POCCI with a B-type connector **Note:** Use the sales code reference above but change the sufix '**A**' to '**B**'	
POCC1-1000B	6U PMC Carrier. Level 1 for use with air-cooled PMCs & PPCs fitted with PMCPCI & P0BP1 J0 modules. 2 PMC slots, front I/O, 5 row P1, P2 and type B 95 way P0 fitted. PMC1 46 pins routed to P2 rows Z & D; PMC2 64 pins routed to P2 rows A & C

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