



## Block Diagram

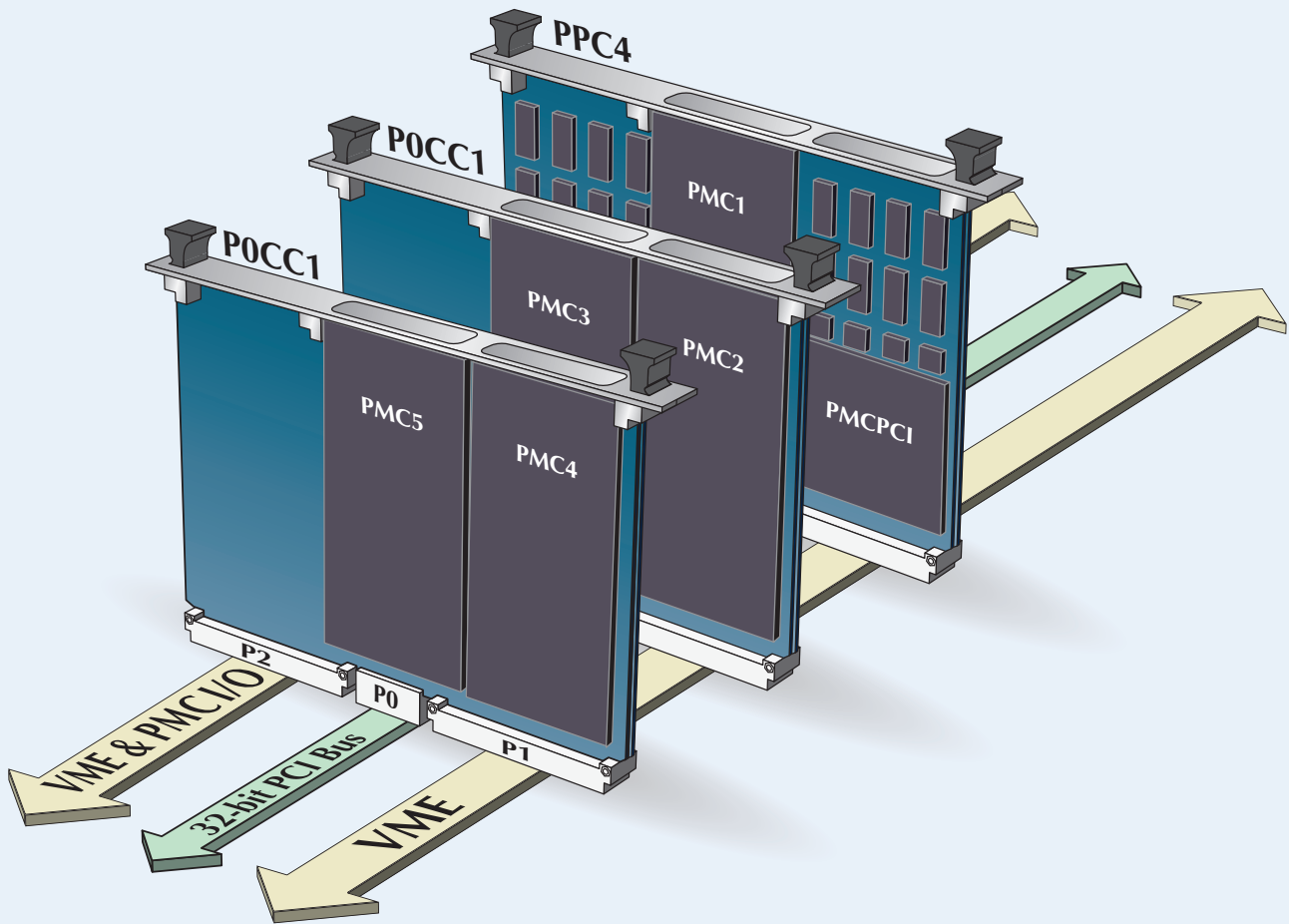


Figure 1: P0CC1 Functional Block Diagram

Offered in five air- and conduction-cooled ruggedization levels, the P0CC1 offers fully compatible system expansion for Radstone's PowerXtreme, PowerXpress, EmPower and XtraPower families of VME SBCs, providing both front and rear PMC I/O. High density rear I/O is achieved using 5-row VME 64 connectors, the I/O being located 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 PMCs which have suitable connectors.

## Specification

Form factor	Single slot 6U VME board
PCI-to-PCI bridge	Intel 21150
PMC sites	Two single or one 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%)
PMC power	5V from backplane / 3.3V from onboard supplies
PCI signaling to PMCs	3.3V or 5V
Weight	Approximately 460 gms

## Standard Ordering Information

Sales Code	Description
<b>POCC1-1000A</b>	6U PMC Carrier. Level 1 for use with air-cooled PMCs & PPCs fitted with PMCP1 & 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
<b>POCC1-2000A</b>	Air-cooled ruggedization Level 2 as above
<b>POCC1-3000A</b>	Air-cooled ruggedization Level 3 as above
<b>POCC1-4000A</b>	Conduction-cooled ruggedization Level 4 as above, except only limited front panel I/O. See product manual for details
<b>POCC1-5000A</b>	Conduction-cooled ruggedization Level 5 as above, except only limited front panel I/O. See product manual for details
	<b>POCC1 with a B-type connector. Note:</b> Use the sales code reference above but change the suffix 'A' to 'B'
<b>POCC1-1000B</b>	6U PMC Carrier. Level 1 for use with air-cooled PMCs & PPCs fitted with PMCP1 & 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
<b>PMCP1-1000A</b>	Half sized PMC bridge card which routes the host PCI bus onto a PCI bus on the PMC I/O pins, which are in turn connected to a PCI backplane subsystem via the host's P0 connector. Receives the PCI interrupts from the backplane; includes all the clocks and bus arbitration logic
<b>PMCP1-2000A</b>	Air-cooled ruggedization Level 2 as above
<b>PMCP1-3000A</b>	Air-cooled ruggedization Level 3 as above
<b>PMCP1-4000A</b>	Conduction-cooled ruggedization Level 4 as above
<b>PMCP1-5000A</b>	Conduction-cooled ruggedization Level 5 as above
<b>P0BP1-502</b>	J0 backplane PCB for fitment to the system backplane; routes PCIBus signals from P0/J0 of the adjacent VME slot (must be soldered onto the J0 system backplane)
<b>P0BP1-503</b>	J0 backplane PCB for fitment to the system backplane; routes PCIBus signals from P0/J0 of the adjacent 2 VME slots (must be soldered onto the J0 system backplane)
<b>P0BP1-504</b>	J0 backplane PCB for fitment to the system backplane; routes PCIBus signals from P0/J0 of the adjacent 3 VME slots (must be soldered onto the J0 system backplane)
<b>P0BP1-505</b>	J0 backplane PCB for fitment to the system backplane; routes PCIBus signals from P0/J0 of the adjacent 4 VME slots (must be soldered onto the J0 system backplane)

## Ordering Information

All POCC1s are designed to be used with a PMCP1 bridge and a P0BP1 backplane, both of which must be ordered separately.

The standard ordering information (above) defines the standard build variant. Consult your local Radstone sales office for availability of further build options.



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