



Shown with Model 4205 PowerPC I/O Processor featuring built-in Fibre Channel. Attached Pentek PMC and VIM I/O modules include 48 DDC channels, 6 A/D channels, 4 D/A channels and 4 DUC channels.

Features

- Adds three PMC sites to Pentek baseboards
- Allows simultaneous mounting of PMC and VIM modules on Pentek baseboards
- Does not use any baseboard power
- LVDS connectivity from PMC P4 to VME P2
- Optional connectivity from PMC P4 connector to VME P2 rows Z and D
- Optional P4 connectivity between PMC modules

Ordering Information

Model	Description
9220	Triple PMC Expansion Board - VME

Options:

-151	P4 connectivity from PMC Site 2 to P2 Rows Z and D
-152	P4 connectivity between PMC Sites 1 and 2

General Information

Model 9220 provides additional PCI Mezzanine Card (PMC) sites for compatible Pentek baseboards including Models 4205 and 4295. It extends the baseboard PMC connector into a second VMEbus slot where up to three PMC modules can be mounted. This additional PMC support does not interfere with baseboard VIM mezzanine sites, so that up to three PMC modules and two VIM modules can be mounted on a single baseboard simultaneously.

PMC Mezzanine Sites

Model 9220 incorporates three 64-bit 66 MHz PMC module sites, each accepting industry-standard modules for a wide variety of interface and communication functions. The 9220 accommodates both 3.3V and 5V PMC modules without drawing power from the attached baseboard.

Dual PCI Buses

The Model 9220 architecture features two 64-bit PCI buses, each capable of 33 MHz or 66 MHz speeds. This multiple bus design offers the user a great deal of flexibility in both I/O configuration and bus speed.

PMC Site 1 uses PCI Bus 1 and PMC Sites 2 and 3 use PCI Bus 2. A PCI bridge joins these two buses, while a second PCI bridge connects PCI Bus 1 to the baseboard. Since buses joined by bridges can operate at different speeds, this architecture allows a 66 MHz PMC module mounted in PMC Site 1 to be mixed with slower modules while maintaining 66 MHz operation.

P2 Connectivity

Model 9220 provides connectivity from the P4 connector of PMC Site 3 to rows A and C of the VME backplane P2 connector. This wiring supports both single-ended signals and differential signal pairs. In addition, the P4 connector of PMC Site 2 is optionally connected to rows Z and D of the VME backplane P2 connector.

Connectivity Between PMC Sites

Connectivity between the P4 connectors of PMC sites 1 and 2 on the 9220 is optionally available. This allows communication between PMC modules offering P4 I/O, such as Pentek’s 7131, 7140 and 7142 A/D and Digital Receiver modules.

VME Interface

Model 9220 directly connects to the VMEbus to draw power for its on-board power supplies, as well as to support P2 connectivity.

Ordering

Model 9220 can be ordered separately from the baseboard as shown in Ordering Information. Alternatively, for new baseboard orders the 9220 can be factory installed by specifying the following baseboard options: Model 42xx-150 adds the Model 9220 (std) Model 42xx-151 adds the Model 9220-151 Model 42xx-152 adds the Model 9220-152

For example, to order a standard 9220 mounted on a 4205 baseboard, the correct ordering number would be 4205-150.

