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PMC901

Specifications & Ordering Extremely effective, the PMC901 is an intelligent PMC expansion card with on board 100Mbit Ethernet, two PMC slots and RISC processor. Installed PMC cards, and the built-in Ethernet on the PMC901 can be either directly controlled from the host, or "hidden", with all detailed control migrated to the on-board processor. In either case, data can be transferred between the PMC901 and host at full PCI bandwidth.

Localized Control

By allowing the PMC901 on-board processor direct control of the local I/O (e.g. installed PMC cards), an additional degree of determinism can be achieved. Two factors contribute: the PMC901 processor off-loads the local host - the dedicated workload permits high determinism. In addition, the PCI/PCI bridge is intelligent - access to options on the PMC901 by the on-board processor can proceed simultaneously with transactions on the host processors bus.

Simple Connection to Host

The PMC901 is designed to use two connection mechanisms: with Motorola 26xx/36xx series it mates with PCI expansion connector. A small assembly allows the PMC901 to be attached to the PMC connector of Digital AXP 133, VI PPC and Force single board computers. Contact Ramix for information for further information.

Stackable

A unique feature of the PMC901 is that multiple modules can be connected, allowing further PMC modules to be incorporated in a powerful processing pipeline.

No Configuration Necessary

By default, the PMC901 will appear simply as a PCI bridge device, leaving full control of the installed I/O (i.e. PMC cards and Ethernet) to the host processor. Thus it can be added to a system simply for the additional PMC slots, leaving the PMC901's computing potential available for the future.

Functional Specifications

CPU	i960RP @ 33Mhz 2 thirty-two bit timer/counters
Memory	512Kb FLASH 2 MByte to 32 MByte DRAM
I/O	10/100MBit TX Ethernet with AUI connection 2 PMC Slots
Compatibility	PCI REV. 2.0 PMC

Operating Systems

Drivers	VxWorks, Lynx, Digital UNIX (Contact Ramix for other environments)
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Electrical/Mechanical

Power	2.0A @ +5V
Size	6U
Operating Temperature	0°C to +65°C
Storage Temperature	-40°C to + 80°C
Relative Humidity	5% to 95% (non-condensing)

Ordering Information

When ordering specify memory and connection option (to the host processor) from the following guide. One of the connection options (A or B) must be specified.

Part Number PMC901

Options

- (A) Connector for Motorola 26xx/36xx Series
- (B) Connector to attach to PMC Slot
- (D) 4 Mbyte DRAM
- (E) 16 Mbyte DRAM
- (F) 32 Mbyte

Example PMC901B-E// PMC901 with 16Mbyte DRAM and assembly to connect to PMC option connector

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