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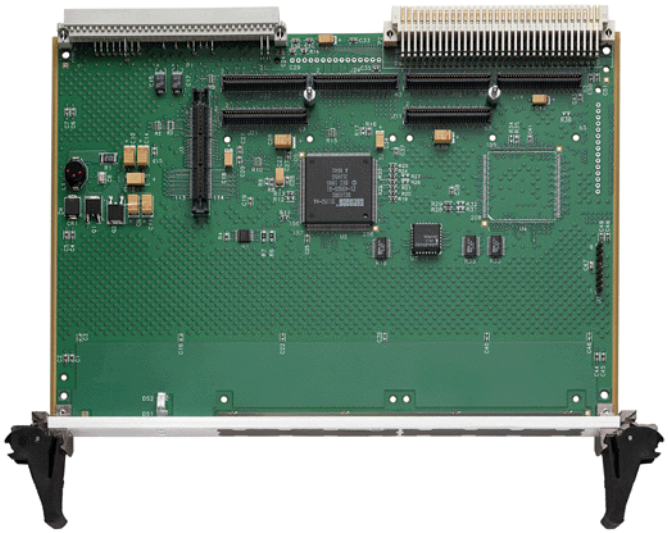
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Find the *Emerson / Motorola PMCSPAN-002* at our website: ***Click HERE***

PMCspan

PMC Expansion Mezzanine



- Single-slot 6U VMEbus format
- DEC 21150 PCI-to-PCI interface bridge
- Support for two single-wide or one double-wide PCI Mezzanine Card (PMC) per PMCspan
- Stacking capability
- Front-panel and/or P2 I/O
- Compliant with PCI local bus specification (revision 2.1)
- Injector/ejector handles per VME64 extensions
- Compatible with Motorola's PowerPlus VME series

Provides VMEbus processor modules with greater expansion capabilities

The PMCspan board allows users to customize their exact I/O requirements with Motorola's VME-based CPU modules designed around the PowerPlus architecture.

When a PMCspan board is coupled with an MCG processor module, the system provides up to six PMCs, more expansion capability than any other VMEbus processor module. Each PMCspan board supports either two single-wide or one double-wide PCI Mezzanine Card (PMC). By stacking PMCspan boards onto a processor module, a total of four additional single-wide PMCs can be added to MCG's compute engines—either today or as future application growth demands.

The PMCspan is a standard 6U single-slot VMEbus module that links to its host board via a PCI expansion connector. It supports both front panel and P2 I/O access for customer supplied PMCs.

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PMCspan Details

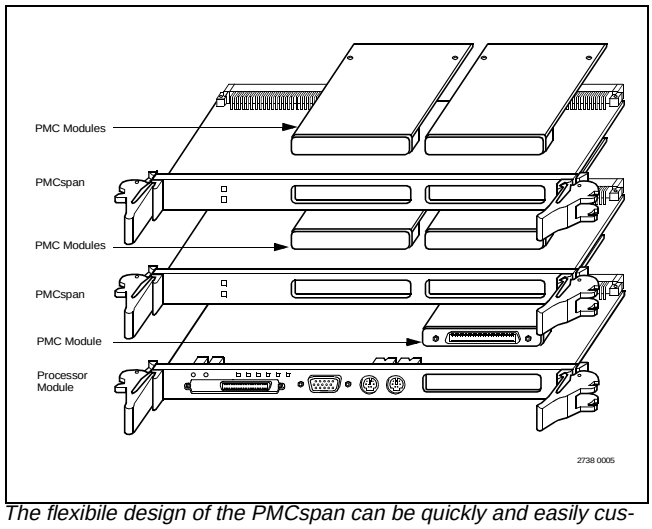
Carrier Boards

Motorola offers a full line of PowerPC® microprocessor-based VME products which can be custom configured for specific applications via on-board PMC slots. The PMCspan expands this capability to further increase customizing alternatives. It is compatible with Motorola's PowerPlus VME series. For further information on these host CPUs, contact your local sales representative.

Product Offering

In order to support the increased PCI bus loading associated with additional PMCs, PMCspan uses the DEC 21150. This PCI-to-PCI interface bridge supports a 32-bit primary bus interface and a 32-bit secondary bus interface. PMCspan mates directly with the host CPU via the separate PCI expansion connector.

When the maximum of two PMCspan modules are stacked together, the top board does not require a second PCI-to-PCI interface bridge. Software views this secondary module as an extension to the primary PMCspan.



The flexibile design of the PMCspan can be quickly and easily customized for a variety of industry-specific applications.

Specifications

Form Factor

Single-slot 6U VMEbus format

PCI-to-PCI Interface

Controller:	DEC 21150 PCI-to-PCI interface bridge
Address/Data:	A32/D32
PCI Bus Clock:	33 MHz
Signaling:	5V
Mating Connector on Host Board:	114-pin PCI Expansion Connector; still allows use of host CPU's original PMCs
Compliance:	PCI Local Bus Specification, Revision 2.1

IEEE P1386.1 PCI Mezzanine Card Slots

Address/Data:	A32/D32, PMC PN1, PN2, PN4 connectors
PCI Bus Clock:	33 MHz
Signaling:	5V
Power:	+3.3V, +5V, ±12V, 7.5 watts max. per PMC
Module Types:	Two single-wide or one double-wide, front-panel or P2 I/O
P2 PMC I/O:	64 I/O signals from first PMC routed to VMEbus P2 connector

Power Requirements (no PMCs installed)

Power:	+5V @ 0.44 ampere (max.) +12V @ 0 ampere (max.) –12V @ 0 ampere (max.)

Board Size

Height:	233.4 mm (9.2 in.)
Depth:	160.0 mm (6.3 in.)
Front Panel Height:	261.8 mm (10.3 in.)
Width:	19.8 mm (0.8 in.)

Demonstrated MTBF

(based on a sample of eight boards in accelerated stress environment)

Mean:	190,509 hours
95% Confidence:	107,681 hours

Environmental

	Operating	Nonoperating
Temperature:	0° C to +55° C, forced air cooling	–40° C to +85° C
Altitude:	5,000 m	15,000 m
Humidity (NC):	10% to 80%	10% to 90%
Vibration:	2 Gs RMS, 20–2000 Hz random	6 Gs RMS, 20–2000 Hz random

Electromagnetic Compatibility (EMC)

Intended for use in systems meeting the following regulations:

U.S.: FCC Part 15, Subpart B, Class B

Canada: ICES-003, Class B

This product was tested in a representative system to the following standards:

CE Mark per European EMC Directive 89/336/EEC with Amendments; Emissions: EN55022 Class B; Immunity: EN50082-1

Safety

All printed wiring boards (PWBs) are manufactured with a flammability rating of 94V-0 by UL recognized manufacturers.

Ordering Information

PMCSPAN-001:	Primary PCI expansion provides two PMC modules for the MVME2600, MVME3600, or MVME4600, includes DEC 21150, optional PMCSPAN-010, IEEE 1101 compatible front panel with injector/ejector handles
PMCSPAN-002:	Same as PMCSPAN-001 but mates only with the MVME2300/2400
PMCSPAN-010:	Secondary PCI expansion provides two additional PMC modules, does not include DEC 21150, requires PMCSPAN-00x
PMCSPAN1-001:	PMCSPAN-001 with original VME Scanbe front panel and handles
PMCSPAN1-002:	PMCSPAN-002 with original VME Scanbe front panel and handles
PMCSPAN1-010:	PMCSPAN-010 with original VME Scanbe front panel and handles
Documentation	
PMCSPANA/IH:	PMC Carrier Installation and Use Manual
Documentation is available for on-line viewing and ordering at http://www.motorola.com/computer/literature.	

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