

XVME-976

PMC Carrier Module

Xycom XVME-976 is a 6U VMEbus dual PMC carrier module designed for use with compatible XVME-689 and XVME-690 processor modules. It provides two 32-bit PMC sites and rear I/O routing through the VME P2 interface.

IDENTITY	VERIFIED VALUE
Manufacturer	Xycom
Complete model	XVME-976
Product role	PMC Carrier Module
System family	XVME VMEbus Embedded Computing
Country of origin	USA

DOCUMENT SCOPE

Exact identity, verified technical data, installation checks, applications, precautions and controlled acceptance records for this model.

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Technical Specifications

PARAMETER	VERIFIED VALUE
Model	XVME-976
Module type	Dual PMC carrier
Form factor	6U VMEbus
PMC capacity	Two 32-bit PMC sites
Compatible processors	XVME-689 and XVME-690
Rear I/O	One PMC site through VME P2
Power source	VMEbus backplane
Stacking	Two carriers support up to five PMC modules with compatible host
Operating temperature	-25 to 70 degrees C
Storage temperature	-40 to 60 degrees C
Country of origin	USA

System Role and Core Functions

Xycom XVME-976 is a 6U VMEbus dual PMC carrier module designed for use with compatible XVME-689 and XVME-690 processor modules. It provides two 32-bit PMC sites and rear I/O routing through the VME P2 interface.

FUNCTION 1 Two 32-bit PMC expansion sites	FUNCTION 2 6U VMEbus carrier architecture
FUNCTION 3 P2 rear-I/O support for one PMC site	FUNCTION 4 Stackable expansion with compatible XVME processors

Common Applications

APPLICATION	ENGINEERING CONTEXT
VMEbus PMC expansion	Adds two PMC sites to a compatible XVME processor platform.
Industrial communications	Hosts approved PMC network or communication adapters in a 6U VME system.
Rear-I/O integration	Routes the documented PMC rear I/O through the VME P2 interface.
Legacy embedded computing	Maintains the approved XVME-689 or XVME-690 expansion architecture.

Engineering Precautions

- Verify XVME-976 and any complete assembly suffix.
- Confirm compatibility with the installed XVME-689 or XVME-690 processor.
- Record both PMC modules, option keys and site positions.
- Confirm PMC voltage keying before insertion.
- Remove VME chassis power and use ESD controls.
- Verify P2 rear-I/O mapping before connecting field interfaces.
- Check total VMEbus and PMC power demand against the system design.
- Verify enumeration and function of both PMC sites before release.

MODEL-SPECIFIC BOUNDARY

Verify the XVME-976 assembly and any option suffix, host processor compatibility, PMC voltage keying and P2 rear-I/O assignment before installation. Remove chassis power, use ESD controls and prove both PMC sites after startup.

Model-Specific FAQ

QUESTION	ANSWER
What is Xycom XVME-976?	It is a 6U VMEbus carrier that provides two 32-bit PMC expansion sites.
Which processors are documented with XVME-976?	The Acromag/Xycom catalog identifies XVME-689 and XVME-690 compatibility.
How many PMC modules can one carrier hold?	One XVME-976 provides two PMC sites.
Does XVME-976 support rear I/O?	Yes. The documented design routes one PMC site's rear I/O through the VME P2 interface.
How is the carrier powered?	It receives power from the VMEbus backplane.
Can multiple carriers be used?	The catalog describes stacking two carriers with a compatible host to support up to five PMC modules.
What temperature range is documented?	The catalog lists -25 to 70 degrees C operating and -40 to 60 degrees C storage.
What confirms successful commissioning?	The carrier is seated correctly and each installed PMC module enumerates and passes its controlled interface test.

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