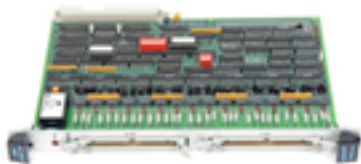


Xycom XVME-212/1  
**Digital Input Module**



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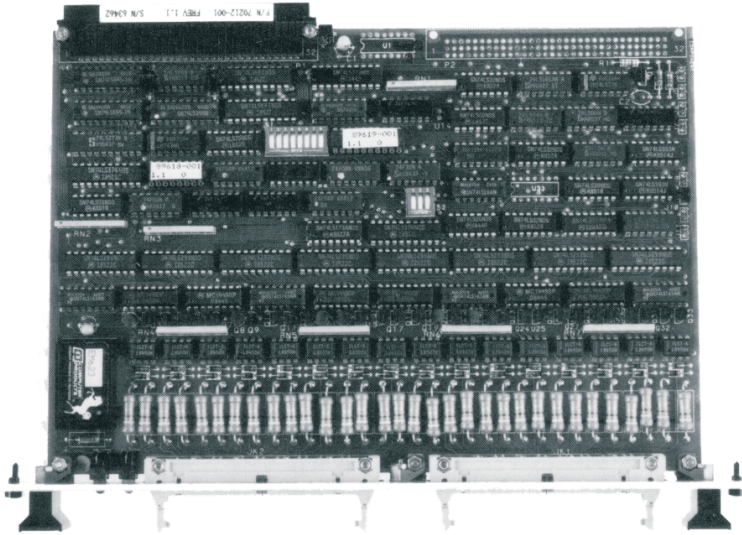
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# XVME-212 Digital Input Module



## FEATURES

- 32 digital input channels
- Programmable scanner
- VMEbus interrupt capability
- Input debouncing circuitry
- 300 VDC optical isolation
- 50 VDC reverse bias protection
- Isolated 12-volt supply

## APPLICATIONS

- Push buttons or panel switches
- Limit switches
- Proximity switches
- Photo-detector switches
- Pressure switches
- Alarm trips

The XVME-212 Digital Input Module provides 32 digital input channels. This module features programmable scanner circuitry that can detect a change-of-state on any of the 32 input channels. The XVME-212 eliminates the need for the host processor to constantly poll the digital I/O to obtain signal transition data. Upon an interrupt transition, the module can notify the host processor by generating a VMEbus interrupt.

This module is ideally suited for interfacing to pushbutton or relay contacts. It contains input debounce circuitry with eight jumper-selectable debounce intervals, and an isolated on-board 12 V supply. Also provided are 300 VDC of optical isolation and 50 VDC reverse bias protection. It will accept input voltages from 10-50 VDC.

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## PRODUCT SPECIFICATIONS AND RATINGS

### Environmental

	Operating	Nonoperating
<b>Thermal</b>	0° to 65° C (32° to 149° F)	-40° to 85° C (-40° to 185° F)
<b>Humidity</b>	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
<b>Shock</b>	30g peak acceleration, 11 msec duration	50g peak acceleration, 11 msec duration
<b>Vibration 5-2000 Hz</b>	.015" (.38 mm) peak-to-peak displacement, 2.5g maximum acceleration	.030" (.76 mm) peak-to-peak displacement, 5.0g maximum acceleration
<b>Altitude</b>	Sea level to 10,000 ft.(3048 m)	Sea level to 40,000 ft.(12192 m)

### Hardware

<b>Power Supply</b>	+5V $\pm$ 5%, 1.7A typical, 2.0A maximum	
<b>Channels</b>	32	
<b>Maximum Input Frequency</b>	3400 Hz	
<b>Input Voltage</b>	<ul style="list-style-type: none"><li>• Logic 1: 10 to 50V DC</li><li>• Logic 0: 0 to 1V DC</li></ul>	
<b>Isolation</b>	<ul style="list-style-type: none"><li>• Channel-to-channel: 300V DC</li><li>• Channel-to-VMEbus GND: 300V DC</li></ul>	
<b>Reverse Bias Protection</b>	50V DC	
<b>Debounce Time<sup>a</sup></b>	4 $\mu$ sec to 18 $\mu$ sec	
<b>Minimum Detectable Pulse Width<sup>b</sup></b>	<b>Typical</b>	<b>Highest</b>
<b>Positive Pulse</b>	5-25 $\mu$ sec	100 $\mu$ sec
<b>Negative pulse</b>	150 $\mu$ sec	600 $\mu$ sec
<b>Propagation Delay<sup>b</sup></b>	<b>Typical</b>	<b>Highest</b>
<b>Off-to-on</b>	5-25 $\mu$ sec	100 $\mu$ sec
<b>On-to-off</b>	150 $\mu$ sec	600 $\mu$ sec

<sup>a</sup> jumper-selectable

<sup>b</sup> fastest debounce selected

### VME Compliance

- Complies with VMEbus Specification IEEE 1014 Rev. C.1
- A24/A16:D16/D08(E0) DTB slave
- Interrupter I (1)-I(7)(STAT), RORA
- Interrupt vector D08(O)(DYN)
- Utility signal SYSFAIL
- Form factor: DOUBLE 233.7 mm  $\times$  160.0 mm (9.2"  $\times$  6.3")

## ORDERING INFORMATION

Order Number	Description
<b>XVME-212/1</b>	32-Channel Isolated Digital Input Module w/change-of-state detection (10-50 VDC inputs)

XycomVME, Inc.  
710 N. Maple Rd.  
Saline, MI 48176  
Ph. 734.944.1942  
Fax. 734.944.1999

XycomVME, Inc. a company of the



Web site: [www.xycomvme.com](http://www.xycomvme.com)

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