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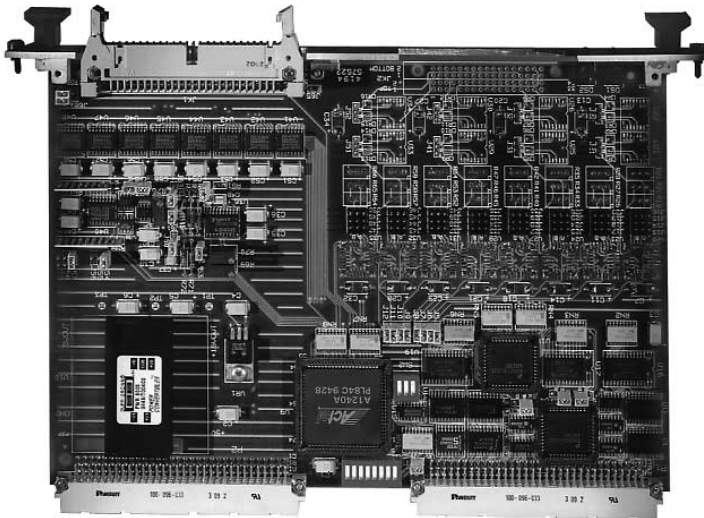
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# XVME-564 Analog Input Module



## FEATURES

- 64 single-ended or 32 differential 16-bit input channels
- 100 KHz throughput in single-channel mode
- 0.003% FSR accuracy in single-channel mode
- Easy to use autoscanning mode
- Software-programmable individual input gains
- Programmable interrupt timer

## APPLICATIONS

- Slide wires
- Analytical equipment
- Microphones
- RTDs and thermistors
- Temperature transmitters
- Strain gauges and load cells
- Tach generators

The XVME-564 Analog Input Module is a powerful VMEbus-compatible analog input module that can perform 16-bit A/D conversions.

The XVME-564 contains 64 single-ended, 32 differential, or 64 pseudo-differential analog input channels. Input channels can be programmed to operate in one of five operating modes: random channel, sequential channel, single-channel, external-trigger, or autoscanning. Autoscanning may be performed across 8, 16, 32 or 64 channels. Individual channel gains are software programmable within one of three jumper-selected ranges.

The XVME-564 can sample unipolar and bipolar inputs, with voltage ranges of 0-5 V, 0-10 V,  $\pm 5$  V, and  $\pm 10$  V. Programmable gains of 1, 2, 4, 5, 8, 10, 20, 40, 50 or 100 may be software-selected.

X Y C O M  
V M E

Embedded products you can count on!

# PRODUCT SPECIFICATIONS AND RATINGS

## Environmental

	Operating	Non Operating
<b>Temperature</b>	0° to 65°C (32° to 149°F)	-40°C to 85°C (-40°F to 185°F)
<b>Humidity</b>	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
<b>Altitude</b>	Sea level to 10,000 ft. (3048 m)	Sea level to 40,000 ft (15240m)
<b>Vibration 5 to 2000 Hz</b>	.015" peak-to-peak displacement 2.5 g (maximum) acceleration	.030" (.76 mm) peak-to-peak displacement 5.0 g (maximum) acceleration
<b>Shock</b>	30 g peak acceleration, 11 msec duration	50 g peak acceleration, 11 msec duration

## Hardware

<b>Resolution</b>	16 bits
<b>Accuracy</b>	<ul style="list-style-type: none"> <li>• Single-channel mode: .003% FSR</li> <li>• All other modes: .006% FSR</li> </ul>
<b>Speed</b>	<ul style="list-style-type: none"> <li>• Conversion time: 10μsec</li> <li>• Settling time: 16μsec</li> </ul>
<b>Power</b>	+5V (±5%): 1.9 A, maximum / 1.6 A, typical
<b>Throughput</b>	<ul style="list-style-type: none"> <li>• Single-channel mode: 100KHz</li> <li>• Autoscanning mode: 62.5 KHz</li> <li>• All other modes: 38.5 KHz</li> </ul>
<b>Input Channels</b>	Eight differential or sixteen single-ended
<b>Number of Channels</b>	<ul style="list-style-type: none"> <li>• Single-ended: 64</li> <li>• Differential: 32</li> <li>• Pseudo-differential: 64</li> </ul>
<b>A/D Input Full Scale Voltage Ranges (G=1)</b>	<ul style="list-style-type: none"> <li>• Unipolar: 0-5V, 0-10V</li> <li>• Bipolar: ±5V, ±10V</li> </ul>
<b>Programmable Gain</b>	<ul style="list-style-type: none"> <li>• Range 1: 1, 2, 5, or 10</li> <li>• Range 2: 4, 8, 20, or 40</li> <li>• Range 3: 10, 20, 50, or 100</li> </ul>
<b>Maximum Input Voltage</b>	<ul style="list-style-type: none"> <li>• Power On: 44V</li> <li>• Power Off: 30V</li> </ul>
<b>Input Impedance</b>	18 Mohm, min.
<b>Bias Current</b>	±200 pA, max.
<b>Input Capacitance</b>	100pF, max.
<b>Operating Common Mode Voltage</b>	-11V/+3V
<b>External Trigger to Sample4</b>	26μsec
<b>Power Requirements</b>	5V ±5%, 1.1 A typ.

## VMEbus Compliance

- A24/16:D16 DTB Slave
- AM Codes 29, 2D, 39, 3D
- I(1)-I(7)(STAT)(Programmable Vector)
- BGXIN hardwired to BGXOUT
- Conforms to XycomVME Standard I/O Architecture

## ORDERING INFORMATION

Order Number	Description
<b>XVME-564</b>	64 SE/32 DI/64 PDI Channel Analog Input

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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