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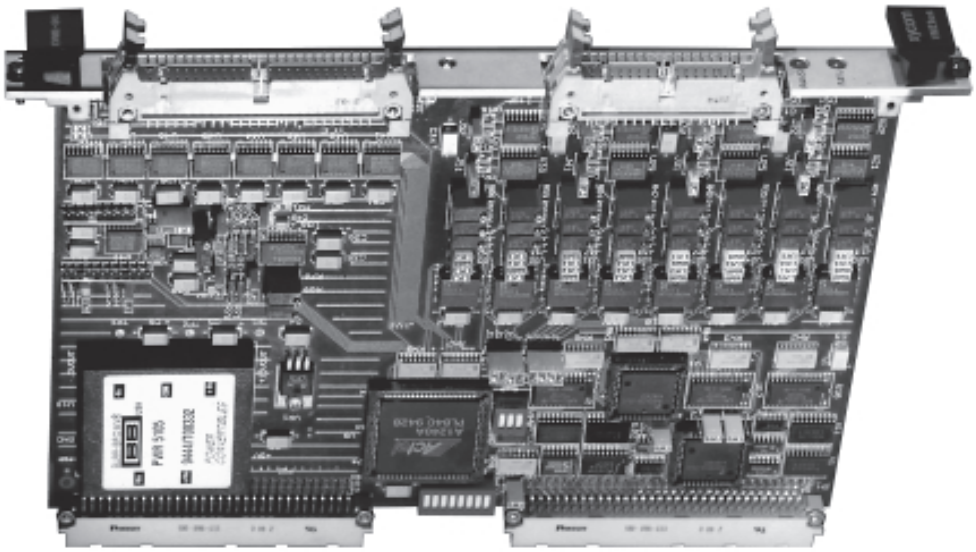
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Find the *Acromag / Xembedded / Xycom XVME-542* at our website: ***Click HERE***

XYCOM VME

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XVME-542
Analog Input/Output Module



Features

- 64 single-ended or 32 differential 16-bit input channels
- Eight 12-bit analog output 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
- Simultaneous output mode

Applications

- Data acquisition
- Process control
- Pressure and temperature sensing
- Machine control

Overview

The XVME-542 Analog Input/Output Module is a powerful VMEbus-compatible I/O module that can perform 16-bit A/D and 12-bit D/A conversions.

The XVME-542 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-542 also contains eight analog output channels. These output channels can be configured for either voltage or current outputs. Transparent and simultaneous channel update modes are supported.

The XVME-542 is pinout-compatible with the XVME-540 Analog Input/Output Module, while offering higher resolution, speed and channel count.

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Hardware Specifications

Analog Outputs

Number of Channels	8
Accuracy	
Resolution	12 bits
Overall error	±¼ LSB
Differential linearity	±½ LSB
Voltage Output Characteristics	
Ranges	0-5V, 0-10V, ±2.5V, ±5V, ±10V
Output current	5 mA max.
Settling time	4 µsec
Offset T.C.	10 ppm/°C
Gain T.C.	20 ppm/°C
Current Loop Characteristics	
Range	4-20mA, non-isolated
Compliance voltage	.2 V min.; 10.5 V max.
Settling time	80 µsec
Load resistance range	50-525 ohms
Offset T.C.	30 ppm/°C
Gain T.C.	50 ppm/°C
Digital Input Coding	OBN, CTC

Analog Inputs

Resolution	16 bits
Accuracy	
Single-channel Mode	.003% FSR
All other modes	.006% FSR
Speed	
Conversion time	10 µsec
Settling time	16 µsec
Throughput	
Single-channel mode	100 KHz
Autoscanning mode	62.5 KHz
All other modes	38.5 KHz
Number of Channels	
Single-ended	64
Differential	32
Pseudo-differential	64
A/D Input Full Scale Voltage Ranges *(G=1)*	
Unipolar	0-5 V, 0-10 V
Bipolar	±5 V, ±10 V
Power Requirements	
Voltage outputs	5 V, ±5%, 1.8 A typ.with voltage outputs at full scale
Current outputs	5 V, ±5%, 2.75 A typ. with current outputs at full scale
Programmable Gain	
Range 1	1, 2, 5, or 10
Range 2	4, 8, 20, or 40
Range 3	10, 20, 50, or 100
Maximum Input Voltage	
Power on	44 V
Power off	30 V
Input Impedance	18Mohm, min.
Bias Current	±200 pA, max.
Input Capacitance	100 pF, max.
Operating Common Mode Voltage	-11 V/+13 V
External Trigger to Sample	26 µsec

Environmental Specifications

Temperature	
Operating	0º to 65°C (32º to 149ºF)
Non-operating	-40º to 85ºC (-40º to 185ºF)
Humidity	20 to 80% RH, non-condensing
Altitude	
Operating	Sea level to 10,000 ft. (3048m)
Non-operating	Sea level to 40,000 ft. (15240m)
Vibration	
Operating	5 to 2,000 Hz .015" peak-to-peak displacement 2.5g (max.) acceleration
Non-operating	5 to 2,000 Hz .030" peak-to-peak displacement 5.0 g (max.) acceleration
Shock	
Operating	30 g peak acceleration, 11 msec duration
Non-operating	50 g peak acceleration 11 msec duration

VMEbus Compliance

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

Warranty

The XVME-542 carries a two-year warranty.

Ordering Information

XVME-542:	64 SE/32 DI/64 PDI Channel Analog Input, 8 Channel Analog Output

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

Web site: www.xycomvme.com

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