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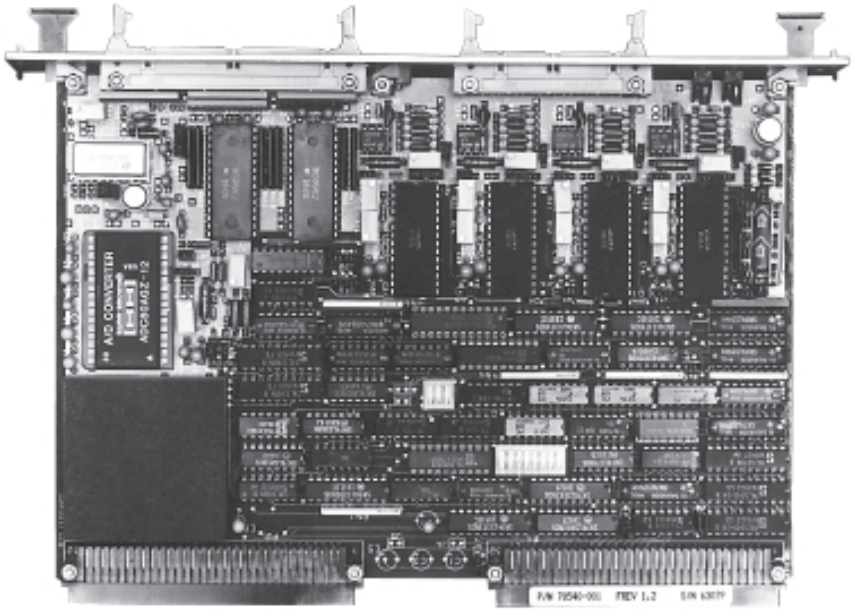
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Find the *Acromag / Xembedded / Xycom XVME-540* at our website: ***Click HERE***

XVME-540
Analog Input/Output Module



Features

- 32 single-ended or 16 differential input channels
- Inputs are configurable as bipolar or unipolar
- 12-bit conversion
- Three ranges of programmable gain
- Jumper-selectable input/output voltage ranges
- Four input sampling modes
- Four output channels, each selectable for voltage or current output
- Fully compatible with Analog Devices 3B signal conditioning

Applications

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

Overview

The XVME-540 Analog Input/Output Module is a powerful, VMEbus-compatible I/O module that can perform 12-bit A/D and D/A conversions.

The XVME-540 contains 32 single-ended or 16 differential analog input channels. The input channels can be programmed to operate in any one of four operating modes: random channel sampling, sequential channel sampling, single-channel sampling, and sampling based on an external trigger. The XVME-540 has programmable gain available within one of three jumper-selected ranges.

The XVME-540 also contains four analog output channels. These output channels can be configured as either voltage or current outputs.

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Hardware Specifications

Analog Outputs

Number of Channels	4
Accuracy	
Resolution	12 bits
Overall error	±1/2 LSB
Differential linearity	±1 LSB
Voltage Output Characteristics	
Ranges	0-5 V, 0-10 V, ±5 V, ±10 V
Output current	5 mA min. @ ±10 V
Settling time	50 µsec
Load resistance range	50-500 ohms
Offset T.C.	75 ppm/ºC
Gain T.C.	100 ppm/ºC
Current Loop Characteristics	
Range	4-20 mA, non-isolated
Compliance voltage	10 V @ 20 mA
Loop supply voltage	+15 V to +30 V
Settling time	50 µsec
Load resistance range	50-500 ohms
Offset T.C.	75 ppm/ºC
Gain T.C.	100 ppm/ºC

Digital Input Coding BIN, OBN

Analog Inputs

Number of Channels	
Single-ended	32
Differential	16
A/D Input Full Scale Voltage Ranges (G=1)	
Unipolar	0-5 V, 0-10 V
Bipolar	±2.5 V, ±5 V & ±10 V
Programmable Gain	
Range 1	1,2,5,or 10
Range 2	4, 8, 20, 50, or 100
Range 3	10, 20, 50, or 100
Maximum Input Voltage	
Power on	44 V
Power off	30 V
Input Impedance	
w/22 MΩ resistor	17 MΩ, min.
w/o 22 MΩ resistor	100 MΩ, min.
Bias Current	±100 nA, max.
Input Capacitance	225 pF, max.
Operating Common Mode Voltage	+13 V/-11 V
Common Mode Rejection Ratio	60 db, min.
External Trigger to Sample	25 µsec

Speed

Conversion Time	
Single-channel mode	<25 µsec
All other modes	<50 µsec
Throughput	
Single-channel mode	40 KHz
All other modes	20 KHz

Environmental Specifications

Temperature	
Operating	0º to 65ºC (32º to 149ºF)
Nonoperating	-40º to 85ºC (-40º to 185ºF)
Humidity	20 to 95% RH, non-condensing
Altitude	
Operating	Sea level to 10,000 ft. (3048 m)
Nonoperating	Sea level to 40,000 ft. (12192 m)
Vibration	
Operating	5 to 2000 Hz .015" (.38 mm) peak-to-peak displacement 2.5 g (maximum) acceleration
Nonoperating	5 to 2000 Hz .030" (.76 mm) peak-to-peak displacement 5.0 g (maximum) acceleration
Shock	
Operating	30 g peak acceleration
Nonoperating	50 g peak acceleration 11 msec duration

VMEbus Compliance

Complies with VMEbus Specification, IEEE 1014
A24/A16:D16/D08(EO) DTB Slave
Interrupter - I(1)-I(7)(STAT), RORA
Interrupt Vector - D08(0)(DYN)
Interrupt Signals - SYSFAIL
Form Factor NEXP
Conforms to Xycom Automation Standard I/O Architecture

Warranty

The XVME-540 carries a two-year parts and labor warranty.

Ordering Information

XVME-540: 32 SE/16 DI Channel Analog Input, 4 Channel Analog Output

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