

XVME-560 Analog Input Module



Features

- 64 single-ended or 32 differential channels
- 12-bit input resolution
- On-board DC/DC converter
- Jumper-selectable voltage ranges: 0-5 V, 0-10 V, ±2.5 V, ±5 V, and ±10 V
- Software-programmable gain: 1, 2, 4 or 8
- Can interrupt at any of seven VMEbus interrupt levels

Applications

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

Overview

The XVME-560 Analog Input Module is a powerful VMEbus-compatible analog input module capable of performing 12-bit A/D conversions on up to 64 different input channels.

The XVME-560 can be programmed to operate in one of four operating modes: random channel, sequential channel, single-channel, or external-trigger mode. After the completion of an A/D conversion, an optional interrupt may be generated.

The XVME-564 can sample unipolar and bipolar inputs, with voltage ranges of 0-5 V, 0-10 V, ± 2.5 V, ± 5 V, and ± 10 V. Programmable gains of 1, 2, 4, or 8 may be software-selected.

Hardware Specifications

Environmental Specifications

Number of Channels		Temperature	
Single-ended	64	Operating	0° to 65°C (32° to 149°F)
Differential	32	Nonoperating	-40° to 85°C (-40° to 185°F)
A/D Input Full Scale Voltage R	langes	II: d:4	
(Jumper-selectable)		<i>Humially</i>	20 to 800/ DIL non condensing
Unipolar	0-5 V, 0-10 V	Nononorating.	20 to 80% RH, non-condensing
Bipolar	±2.5 V, ±5 V, ±10 V	Nonoperating	20 to 90% KH, non-condensing
Software-Programmable Gain		Altitude	
1, 2, 4 or 8		Operating	Sea level to 10,000 ft. (3048m)
Effective Full-Scale Input Ranges		Nonoperating	Sea level to 40,000 ft (12192 m)
Unipolar	0-625 mV to 0-10 V		
Bipolar	± 312.5 mV to ± 10 V	Vibration	
Maximum Input Voltage		Operating	5 to 2,000 Hz
(without damage)			.015" (0.38 mm) peak-to-peak
Power on	±44 V		displacement
Power off	±30 V		2.5g (max.) acceleration
Input Impedance		Nonoperating	5 to 2,000 Hz
w/ 22M ohm resistor	17M ohm, min.		.030" (0.76 mm) peak-to-peak
w/o 22M ohm resistor	100M ohm, min.		displacement
Bias Current	±100 nA, max.		5.0 g (max.) acceleration
Input Capacitance	225 pF, max.		
O perating Common Mode Voltage +14 V		Shock	20 a most accolonation
Accuracy		Operating	30 g peak acceleration,
Resolution	12 hits		
Overall error	+1/2 I SR	Nonoperating	50 g peak acceleration
Differential linearity	$\pm 1/2$ ESD ± 1 LSB		11 msec duration
System accuracy	1 202	VMEbus Com	nliance
with $Gain = 1$	±0.025% of FSR	Complies with VME hus Specification IEEE 1014	
with $Gain = 8$	±0.05% of FSR	A 16/A 24·D16/D08(FO) DTR Slave	
Common Mode Rejection Ratio	74 db. min	Interrunter $I(1)$ $I(7)(STAT)$ RORA	
y Monotonicity	Guaranteed	Interruptor Vector $D08(O)(DVN)$	
Speed	Guaranteed	Interrupter vector - D00(O)(D1 N)	
Conversion time	50	Form Easter NEVD	
Throughput	20K conversions/sec	FUTHER FOR Automation Standard I/O	
		Conforms to Aycom Automation Standard I/O	
rower kequirements	± 3 v typical, 2.00 A	Architecture	
		Ordering Inform	nation
vvarranty		XVME-560: 64 SE/32 DI Channel Analog Input	

The XVME-560 carries a two-year warranty.

: 64 SE/32 DI Channel Analog Input Module (with Programmable Gain)

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