

Xycom XVME-566

## 100 KHz, 32-Channel Analog Input Module



**In Stock**

**Used and in Excellent Condition**

**Open Web Page**

<https://www.artisanng.com/59182-2>

All trademarks, brandnames, and brands appearing herein are the property of their respective owners.



Your **definitive** source  
for quality pre-owned  
equipment.

**Artisan Technology Group**

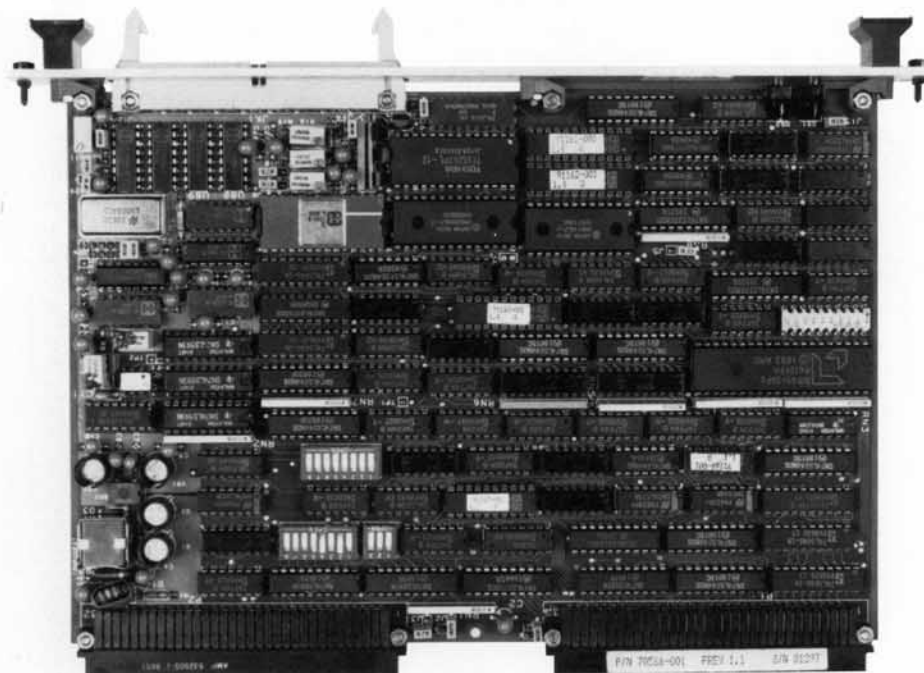
(217) 352-9330 | [sales@artisanng.com](mailto:sales@artisanng.com) | [artisanng.com](http://artisanng.com)

- Critical and expedited services
- In stock / Ready-to-ship

- We buy your excess, underutilized, and idle equipment
- Full-service, independent repair center

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

# XVME-566 High-Performance Analog Input Module



## Features

- 100 KHz throughput
- 64 Kbytes dual-access RAM
- Programmable gain
- Programmable conversion sequence
- External trigger and on-board sample clock
- Powerful automatic sampling modes

## Applications

- High-speed sampling
- Vibration analysis
- Automatic data collection

## Overview

The XVME-566 is a high-performance VMEbus-compatible Analog Input Module. It converts data on 32 single-ended or 16 differential analog input channels and provides 12-bit resolution. Conversions are performed at a rate of 100 KHz, using a dual sample and hold architecture.

At conversion rates of 100 KHz and faster, 100% of the VMEbus bandwidth can be used in servicing the module. The XVME-566 alleviates this problem by providing 64 Kbytes of dual-access RAM, enough for over 32,000 samples. The sequence of channels to be converted can be programmed in a 256 byte sequence RAM. This sequence RAM allows for looping of sample sequences, interrupting the VMEbus when a particular sample is completed, and stopping the sampling process. A gain RAM is also used to provide the gain factor for each individual channel.

A programmable sample clock is provided, which controls the basic sampling rate up to 100 KHz. A sequence of samples can be initiated by either a second on-board trigger clock and external trigger or an S/W trigger.

## Hardware Specifications

### Analog Inputs

#### Number of Channels

Single-ended	32
Differential	16
ADC input ranges	0-10, $\pm 5$ , $\pm 10$

#### 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	35 V
Power off	20 V

**Common Mode Voltage** 14 V

**Common Mode Rejection Ratio** 60 db, min.

### Accuracy

Resolution	12 or 8 bits
Linearity	$\pm 1/2$ LSB
Differential linearity	$\pm 1/2$ LSB
Monotonicity	Guaranteed
System accuracy	
Gain = 1	0.05% FSR
Gain = 100	0.1% FSR
System accuracy temp. drift	
Gain = 1	40 ppm/ $^{\circ}$ C, max.
Gain = 100	110 ppm/ $^{\circ}$ C, max.

### Speed

Conversion time	<10 usec.
Throughput	100 KHz, 12-bit mode 142 KHz, 8-bit mode
Trigger clock	up to 100 KHz
Sample clock	up to 142 KHz

**Power requirements** 5 V

## Environmental Specifications

### Temperature

Operating	0 $^{\circ}$ to 65 $^{\circ}$ C (32 $^{\circ}$ to 149 $^{\circ}$ F)
Non-operating	-40 $^{\circ}$ to 85 $^{\circ}$ C (-40 $^{\circ}$ to 185 $^{\circ}$ F)

### Humidity

5 to 95% RH, non-condensing

### Altitude

Operating	Sea level to 10,000 ft. (3048 m)
Non-operating	Sea level to 50,000 ft. (15240 m)

### Vibration

Operating	5 to 2000 Hz .015" peak-to-peak displacement 2.5 g (maximum) acceleration
Non-operating	.030" peak-to-peak displacement 5.0 g (maximum) acceleration

### Shock

Operating	30 g peak acceleration, 11 msec duration
Non-operating	50 g peak acceleration, 11 msec duration

## VMEbus Compliance

Complies with VMEbus Specification, IEEE 1014  
A16/A24:D16/D08(E0) DTB Slave  
Interrupter - I(1)-I(7)(STAT), RORA  
Interrupt Vector - D08(O)(DYN)  
Utility Signals - SYSFAIL  
Form Factor - NEXP (233.35 mm x 160 mm)  
Conforms to Xycom Standard I/O Architecture

## Warranty Information

The XVME-566 carries a two-year warranty.

### Ordering Information

XVME-566: High-performance Analog  
Input Module

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

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

XycomVME, Inc. a company of the



©2005 XycomVME, Inc. All rights reserved. Printed in USA.  
All brand or product names are the property of their respective owners.  
Specifications may change without notice.



# Artisan Technology Group is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at [artisanng.com](https://www.artisanng.com) for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

**We're here to make your life easier. How can we help you today?**

(217) 352-9330 | [sales@artisanng.com](mailto:sales@artisanng.com) | [artisanng.com](https://www.artisanng.com)

