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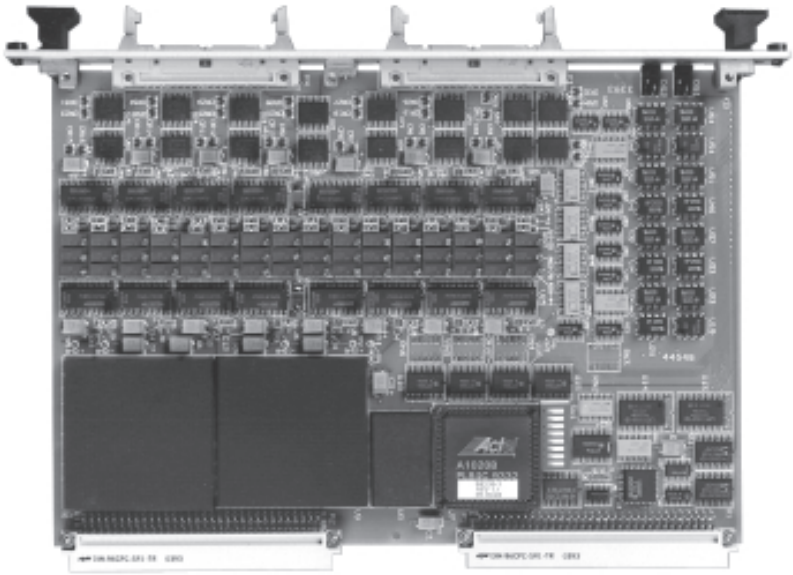
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Find the *Acromag / Xembedded / Xycom XVME-531/2* at our website: *Click HERE*

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XVME-531 16-Channel Analog Output Modules



Features

- 16 independent Digital/Analog output channels
- 12-bit resolution
- Voltage ranges of 0-10 V, ±5 V or ±10 V
- Current output from 4 to 20mA
- 500 volt optical isolation
- Transparent or multichannel update mode
- Gain and offset adjustable on each channel
- Overall error limited to ±.5 LSB output voltage, ±.66 LSB output current

Applications

- Process control
- Machine control
- Display meters
- Strip chart recorders
- Proportional valves
- Variable speed motor controllers
- Temperature controllers
- Set point controllers
- Meters

Overview

The XVME-531 Analog Output Module is a powerful, double-high, VMEbus-compatible 12-bit Digital/Analog I/O module. This module provides your VME system with the capability of outputting voltage or current over any of 16 independent analog output channels. Each channel can be separately configured for a variety of voltage or current output operations. The XVME-531 supports simultaneous multichannel output and provides isolation to 500 volts.

The XVME-531 provides adjustable offset and gain, and are accurate to a maximum overall error of 0.5 LSB for voltage and ±.66 LSB for current. The XVME-531 module conforms to the XycomVME standard I/O architecture.

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Hardware Specifications

Number of Channels	16
Optical Isolation 531	500 V

Voltage Output Characteristics

Resolution	12 bits
Accuracy	
Overall Error	±.5 LSB
Monotonicity	Guaranteed
Settling Time (to .012%)	
0-10V, ± 5V	5 µsec.
± 10V	6 µsec.
Offset T.C.	10 PPM/C max
Gain T.C.	20 PPM/C max

Current Output Characteristics

Resolution	12 bits
Compliance Voltage	10.5 volts @20mA
Accuracy	
Overall Error	± .66 LSB, ± .016%
Settling Time (to 1/2 LSB)	80 µsec.
Load Resistance Range	50 to 525Ω
Offset T.C.	30 ppm/C max
Gain T.C.	50 ppm/C max

Conversion Time

XVME-531 4.7 µsec., typ.

(Conversion Time is defined as the time required to start a conversion. It is measured from the start of DS0 or DS1* to when the analog output first begins to change.)*

Power Requirements

XVME-531	5 V ± 5%, 1.8 A typ., with outputs at full scale (voltage mode)
	3.2 A typ., with outputs at full scale (current mode)

Reset

All DACs are reset to 0000H or 0800H jumper configuration at power-up or system reset or software reset.

Environmental Specifications

Temperature

Operating	0° to 65° C (32° to 149° F)
Non-operating	-40° to 85° C (-40° to 185° F)

Humidity 20 to 95% RH, non-condensing

Altitude

Operating	Sea level to 10,000 ft. (3048m)
Non-operating	Sea level to 40,000 ft. (12192m)

Vibration

Operating	5 to 2,000 Hz .015" (.38 mm) peak-to-peak displacement 2.5 g (maximum) acceleration,
Non-operating	5 to 2,000 Hz .030" (.76 mm) 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
- A24/A16:D16/D08(EO) DTB Slave
- Utility signals- SYSFAIL

Warranty Information

The XVME-531 carrys a two-year warranty.

Ordering Information

XVME-531/2 : 16-Channel Analog Output Module
Configurable as (Voltage or 4-20mA)

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