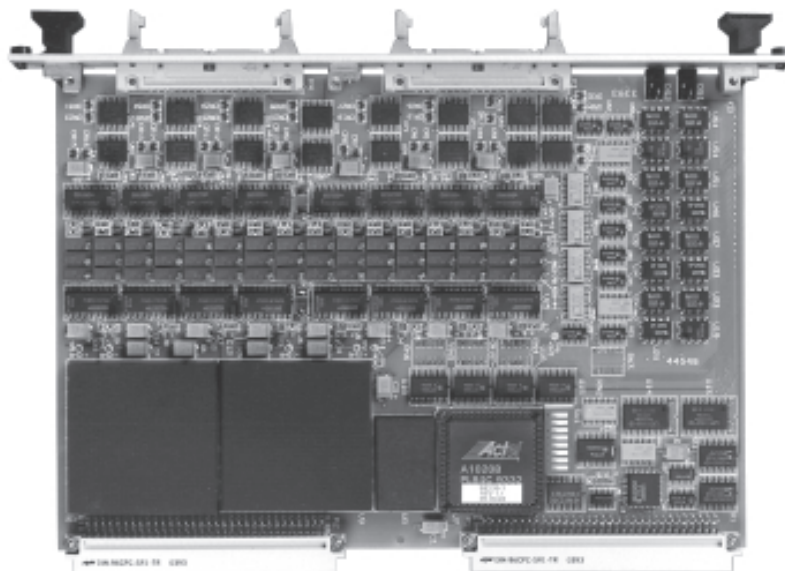




Embedded products you can count on!

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 ± 0.5 LSB output voltage, ± 0.66 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 ± 0.66 LSB for current. The XVME-531 module conforms to the XycomVME standard I/O architecture.

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, ± 5 V 5 μ sec.
 ± 10 V 6 μ sec.
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 $\pm .66$ LSB, $\pm .016\%$
Settling Time (to 1/2 LSB) 80 μ sec.
Load Resistance Range 50 to 525 Ω
Offset T.C. 30 ppm/C max
Gain T.C. 50 ppm/C max

Conversion Time

XVME-531 4.7 μ sec., 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 $\pm 5\%$, 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.

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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(E0) DTB Slave
- Utility signals- SYSFAIL

Warranty Information

The XVME-531 carries a two-year warranty.

Ordering Information

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

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