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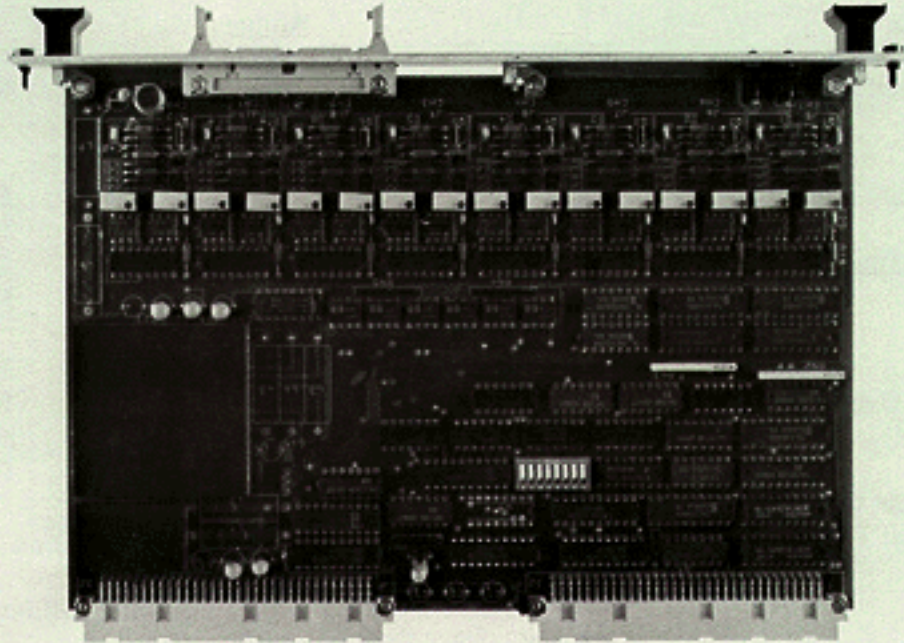
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# XVME-530 Analog Output Module



## Features

- 8 independent D/A output channels
- 300 volts of optical isolation
- On-board DC/DC converter
- Voltage or current output ranges
- Gain and offset adjustable on each channel
- Overall error:  $\pm 0.5$  LSB

## Applications

- Strip chart recorders
- Proportional valves
- Variable speed motor controllers
- Temperature controllers
- Set point controllers
- Meters

## Overview

The XVME-530 is an 8-channel isolated analog output module. The resolution of each D/A converter is 12 bits.

The eight output channels on the XVME-530 can be independently jumper configured for either unipolar voltage, bipolar voltage, or current mode of operation. The voltage output ranges include: 0-5 V, 0-10 V,  $\pm 2.5$  V,  $\pm 5$  V,  $\pm 10$  V, while the current range is 4-20 mA.

Each analog output channel on the XVME-530 is optically isolated (300 volts) from the digital logic. The gain and offset errors are both adjustable to zero, and the maximum overall error is 0.5 LSB. Also, the XVME-530 module conforms to the Xycom standard I/O architecture.

## Hardware Specifications

<u>Analog Outputs Available</u>	8
<u>Optical Isolation</u>	300 V
<u>Monotonicity</u>	Guaranteed
<u>Accuracy</u>	
Resolution	12 bits
Overall Error	$\pm 0.5$ LSB $\pm 0.0122\%$
<u>Conversion Time</u>	42 usec
<u>Settling Time</u>	(to 0.01% resistive load only) 30 usec, max. (current mode) 8 usec, max. (voltage mode)
<u>Voltage Output Characteristics</u>	
Ranges	0 to 5 V, 0 to 10 V, $\pm 2.5$ V, $\pm 5$ V, $\pm 10$ V
Output Current	5 mA min. @ +10 V
Offset T.C.	30 ppm/ $^{\circ}$ C (bipolar voltage mode) 15 ppm/ $^{\circ}$ C (unipolar voltage mode)
Gain T.C.	50 ppm/ $^{\circ}$ C
<u>Current Loop Characteristics</u>	
Range	4-20 mA
Offset T.C.	30 ppm/ $^{\circ}$ C
Gain T.C.	50 ppm/ $^{\circ}$ C
Load Resistance Range	50 to 525 ohms
Load Regulation	0.808 ppm/ohm
<u>Digital Input Coding</u>	BIN, OBN
<u>Reset</u>	All DACs are reset to 0000H at power-up or system reset
<u>Power Requirements</u>	5 V $\pm 5\%$ , typ. 2.6 A (with outputs at full scale in 4-20 mA mode)

## Environmental Specifications

<u>Temperature</u>	
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)
<u>Humidity</u>	5 to 95% RH, non-condensing
<u>Altitude</u>	
Operating	Sea level to 10,000 ft. (3048 m)
Non-operating	Sea level to 50,000 ft. (15240 m)
<u>Vibration</u>	
Operating	.015" peak to peak 2.5 g peak acceleration
Non-operating	.030" peak to peak 5.0g peak acceleration
<u>Shock</u>	
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
- Form Factor: DOUBLE (233.35 mm x 160 mm) (9.2" x 6.3")
- Conforms to Xycom Standard I/O Architecture

## Warranty Information

The XVME-530 carries a two-year warranty.

## Ordering Information

XVME-530: 8 Channel Isolated Analog Output Module

**XYCOM INC**  
750 North Maple Road, Saline, Michigan 48176  
Phone: (313) 429-4971 TWX 810-223-8153  
Call toll-free outside of Michigan: 1-800-AT-XYCOM

**XYCOM ASIA**  
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T.S.T. Kowloon, Hong Kong  
Phone: 852 3 311 7855 Telex: 780 33652 ALSITHX



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