

XYCOM XVME-531

16-channel isolated VMEbus analog output module

Overview

XYCOM XVME-531 is a double-high VMEbus analog output module with sixteen independent 12-bit D/A channels. Each channel can be configured for 0-10 V, +/-5 V, +/-10 V or 4-20 mA output and is optically isolated from the VMEbus.

01 / Function

Provides sixteen independent 12-bit analog output channels

02 / Function

Supports 0-10 V, +/-5 V, +/-10 V and 4-20 mA ranges

03 / Function

Provides 500 V optical isolation between the outputs and VMEbus

04 / Function

Supports transparent or multi-channel simultaneous update operation

PARAMETER		SPECIFICATION
Country of origin		USA
HS / tariff code		8537101190
Shipping origin		Xiamen, Fujian, China
Stock / delivery		1 / 3 days; fast shipment

Install XYCOM XVME-531 in a compatible VMEbus chassis and match the programmed output range, load and update mode to the documented control design. Preserve the channel calibration and reset-state jumper selection during replacement.

Technical parameter dashboard

XYCOM XVME-531

PARAMETER	SPECIFICATION
Model	XVME-531
Form factor	Double-high VMEbus module
Analog outputs	16 independent channels
Resolution	12 bit
Voltage ranges	0-10 V, +/-5 V, +/-10 V
Current range	4-20 mA
Isolation	500 V optical isolation from VMEbus
Update modes	Transparent or multi-channel simultaneous update

PARAMETER	SPECIFICATION
Gain and offset	Individually adjustable per channel
Voltage maximum error	+/-0.5 LSB
Current maximum error	+/-0.66 LSB
Voltage settling, 0-10 V / +/-5 V	5 microseconds
Voltage settling, +/-10 V	6 microseconds
Current settling	80 microseconds
Current compliance	10.5 V at 20 mA
Current load range	50 to 525 ohms

PARAMETER	SPECIFICATION
Typical conversion time	4.7 microseconds
VMEbus interface	IEEE 1014; A24/A16:D16/D08(EO) slave
Reset output code	0000H or 0800H jumper selectable
Power	+5 V +/-5 percent; 1.8 A voltage full scale, 3.2 A current full scale
Operating temperature	0 to 65 deg C
Storage temperature	-40 to 85 deg C
Relative humidity	20 to 95 percent, non-condensing

Application and installation

XYCOM XVME-531

Process-control analog actuation

Drive proportional valves, setpoints and other documented analog loads from sixteen isolated channels.

Variable-frequency drive references

Provide voltage or 4-20 mA commands to compatible drives using the configured range.

Display and recorder outputs

Generate calibrated outputs for panel meters, strip-chart recorders and monitoring instruments.

Multi-channel machine control

Coordinate simultaneous updates when several analog commands must change together.

Product Precautions

01 / Check

Verify the complete XYCOM XVME-531 marking and installed VMEbus slot before work.

02 / Check

De-energize the VMEbus chassis and all connected analog field circuits before removal or installation.

03 / Check

Use ESD-safe handling and keep the double-high module aligned with the chassis guides and connectors.

04 / Check

Record the configured voltage or current range, gain and offset setting for every active channel.

05 / Check

Confirm that 4-20 mA loads remain within the documented 50-to-525-ohm range and 10.5 V compliance limit.

06 / Check

Preserve the jumper-selected 0000H or 0800H reset state so field devices assume the intended safe output.

07 / Check

Verify the VMEbus address, A24/A16 access and D16/D08(E0) data configuration before energization.

08 / Check

After installation, test all used channels, simultaneous-update behavior and SYSFAIL response before service release.

Technical notes: The XycomVME data sheet specifies sixteen independent outputs, VMEbus A24/A16:D16/D08(E0) slave operation, five-microsecond voltage settling for 0-10 V and +/-5 V ranges, six-microsecond settling for +/-10 V, and 80-microsecond current-output settling.

Important Notice: Confirm the exact XVME-531 identity and I/O map before work. De-energize the VMEbus chassis and field loads, observe ESD-safe handling, and verify every channel with a controlled output test before return to service.

Engineering FAQ

XYCOM XVME-531 / same answers as the product page

How many outputs does XYCOM XVME-531 provide?

XYCOM XVME-531 provides sixteen independent analog output channels.

What resolution does XYCOM XVME-531 use?

The module uses 12-bit digital-to-analog conversion on all sixteen channels.

Can XYCOM XVME-531 update several outputs together?

Yes. It supports both transparent operation and a multi-channel simultaneous-update mode.

What happens to XYCOM XVME-531 outputs during reset?

All DACs can be reset to 0000H or 0800H as selected by the module jumper during power, system or software reset.

Which output ranges are supported by XYCOM XVME-531?

Each channel can be configured for 0-10 V, +/-5 V, +/-10 V or 4-20 mA output.

Is XYCOM XVME-531 isolated from the VMEbus?

Yes. The data sheet specifies 500 V optical isolation between the analog outputs and the VMEbus.

What load is allowed for the 4-20 mA output on XYCOM XVME-531?

The documented load range is 50 to 525 ohms, with 10.5 V compliance at 20 mA.

Which VMEbus access modes apply to XYCOM XVME-531?

The module operates as an IEEE 1014 VMEbus slave using A24 or A16 addressing with D16 or D08(EO) data access.

Catalogue navigation

Eight verified product links / navigation only, not approved substitutes

BRAND + MODEL	RELATION	PRODUCT LINK
ABB 83SR11E	Industrial I/O catalogue	Explore ABB 83SR11E page
Emerson 5X00167G01	Industrial I/O catalogue	Explore Emerson 5X00167G01 page
GE IS200EGDMH1AFG	Industrial control catalogue	Explore GE IS200EGDMH1AFG page
Xycom XVME-976	VMEbus catalogue	Explore Xycom XVME-976 page
GE IS200SRTDH2ACB	Industrial I/O catalogue	Explore GE IS200SRTDH2ACB page
Emerson KJ3001X1-BC1-12P0551X132-VE4001S3T1B1	Industrial I/O catalogue	Explore Emerson KJ3001X1-BC1-12P0551X132-VE4001S3T1B1 page
Bachmann AIO216	Industrial I/O catalogue	Explore Bachmann AIO216 page
Yokogawa AAI835-S00 S2	Industrial I/O catalogue	Explore Yokogawa AAI835-S00 S2 page

Catalogue links are navigation aids and do not establish compatibility with XYCOM XVME-531.

Source and contact

XYCOM XVME-531

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Technical source: XycomVME XVME-531 Analog Output Module Data Sheet, DS-74531-001 Rev D, 2005. Commercial fields supplied by Apter Power.

The supplied exact-model reference PDF provides the technical evidence used for this document.