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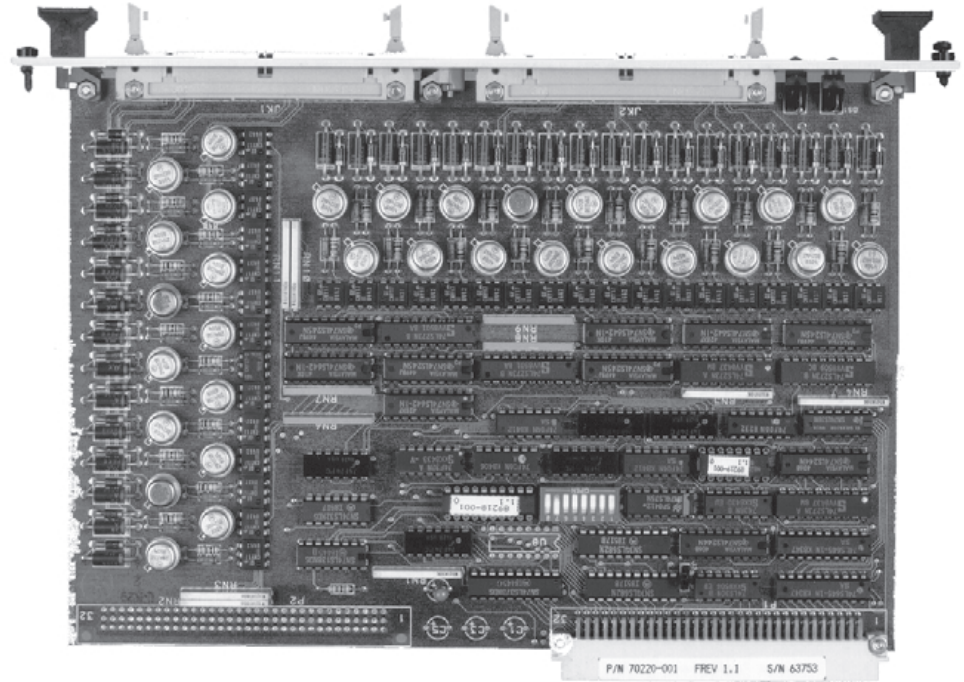
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XVME-220

Digital Output Module



Features

- 32 optically isolated, digital output channels
- Open-collector outputs to 30 V and 100 mA
- 300 VDC optical isolation
- Hardware initialization of outputs at module power-up
- Outputs are software-readable
- Transient protection on all outputs

Applications

- Control valves
- Solid state relays
- Counters
- Logic state interlock to programmable controllers
- Alarm interface
- Parallel interface
- Indicator lamps

Overview

The XVME-220 Digital Output module is a 32-channel, digital output module designed to be used in VMEbus systems. Each output channel is opto-isolated from the system bus and each uses an open-collector configuration to allow a maximum load capability of 30 volts and 100 mA. All outputs employ transient suppression circuitry to minimize the possibility of damage due to high-voltage transients occurring in the output application circuit.

The 32 output channels are arranged to form 4 (byte-wide) output registers. The output registers are addressed consecutively, allowing the output channels to be accessed in either the “byte” or “word” format. To add to the integrity of the system, default initialization will disable all outputs both on system power-up and during a software reset.

Hardware Specifications

Outputs 32
Located on two 50-pin ribbon headers on the front panel, 16 per header

Physical Output
Normally-open contacts

Output Voltage
Off-state (V_{oh}) 30 V max.
On-state (V_{ol}) 1 V typical, 2 V max.

Current
Off-state leakage (I_{oh}) 100 μ A max.
On-state output (I_{ol}) 100 mA max.

Turn-on Time 30 μ sec max.

Turn-off Time 100 μ sec max.

Isolation
Channel-to-channel,
and system-to-system 300 V min.

Output Transient Protection
Reverse voltage protection diode and varistor suppression transient

Power Requirements ± 5 V, $\pm 5\%$, 1.62 A, typical

Warranty Information

The XVME-220 carries a two-year parts and labor warranty.

Environmental Specifications

Temperature
Operating 0° to 65° C (32° to 149° F)
Nonoperating -40° to 85° C (-40° to 185° F)

Humidity 20% to 90% RH, non-condensing

Altitude
Operating Sea level to 10,000 ft. (3048 m)
Nonoperating Sea level to 40,000 ft (12192 m)

Vibration 5 to 2000 Hz
Operating .015" (.38 mm) peak-to-peak displacement
2.5 g (maximum) acceleration
Nonoperating .030" (.76 mm) peak-to-peak displacement
5.0 g (maximum) acceleration

Shock
Operating 30 g peak acceleration
11 msec duration
Nonoperating 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
- Conforms to Xycom Automation Standard I/O Architecture
- Form Factor: DOUBLE
9.2" \times 6.3" (233.68 mm \times 160.02 mm)

Ordering Information

XVME-220 32 Channel Isolated Digital Output Module

XYCOM AUTOMATION, INC.
750 North Maple Road
Saline, Michigan 48176-1292
Phone: (734) 429-4971
FAX: (734) 429-1010
Call toll-free: 1-800-AT-XYCOM
<http://www.xycomautomation.com/>

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