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# AVME948x General-Purpose Digital I/O

- **Model AVME948O:** front panel access
- **Model AVME9481:** P2 access

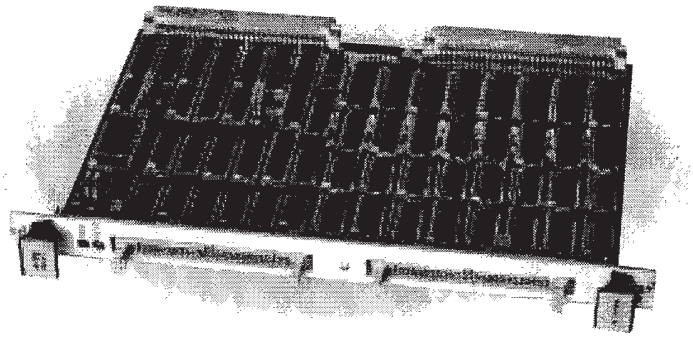
These digital input/output boards interface solid-state or mechanical control relays and other discrete industrial logic devices to the VMEbus. The interfacing is accomplished by providing 64 general purpose I/O points (or lines). Each of the 64 points is selectable as an input, an output, or both - depending on the application.

These boards can handle inputs from a low range of 0 to 5V DC to a high range of 0 to 30V DC. The host can read each of the points configured as an output.

A variety of features includes host interrupt capability and adjustable input threshold.

## Features

- 64 points of bidirectional I/O
- I/O range of 0 to 30 volts
- I/O points configurable as eight 8-bit ports or four 16-bit ports
- One 8-bit port (Port 0) for handshaking with latch and interrupt capability
- Read state of points configured as outputs
- Open collector output
- Adjustable input threshold
- Status LEDs
- Built-in protection diodes for driving relay coils
- Byte or word data transfers
- Compatible with industry-standard plug-in solid-state relays and termination panels



*AVME9480 and AVME9481 boards offer a price/performance balance that is ideal for a broad range of I/O applications.*

## Specifications

### General

I/O points per board: 64; each point is programmable as an input and/or an output.

Interrupt capability: 8 level-selectable interrupt lines with programmable masks.

### Digital Input

Input voltage range: 0 to 30V DC.

Input threshold:
High to low:
Internal reference supply:
$V_{IL}$ = 1.0V DC nominal.
External reference supply:
$V_{IL}$ = (.448 X REF) - 1.22V DC nominal.

Low to high:
Internal reference supply:
$V_{IH}$ = 2.25V DC nominal.
External reference supply:
$V_{IH}$ = (.448 X REF) +0.025V DC nominal.

Input hysteresis: 1.2V DC nominal.

Input current (per point):
$I_{IL}$ = -0.2µA at 0V, $V_{REF}$ = 5V.
$I_{IH}$ = 61µA at 30V DC.

External reference supply: 2.75 to 27.5V DC.

### Digital Output

Output type: open collector with optional pull-up resistor.

Output voltage range: 0 to 30V DC.

Output current (per point): $I_{OL}$ = 100mA maximum.

### Power Supply Requirements

Power: +5V DC +5%/-2.5% @ 1.6 A, typical.

### Environmental

Operating temperature: 0 to 70°C (32 to 158°F).

Relative humidity: 5 to 95%, non-condensing.

Isolation: Non-isolated.

### Connector

1P, P2: IEC Type 603-2-C096MX-xxx (96 pin DIN).

P3, P4: (AVME9480 only) 50 pin male header connector.

### VME Compliance

Meets VME Specifications per revision C.1 dated October 1985 and IEC 821-1987.

Data transfer bus: A16: D16/D08 (EO) DT8 slave.

Address modifier codes: 29H, 2DH.

Interrupt request levels: IRQ(1) - IRQ(7) eight programmable vectors.

Memory map: short I/O space occupying 1K.

## Ordering Information

**AVME9480:**
Front cable access

**AVME9481**
Rear cable access (P2), see warning below

**WARNING:** Do not plug AVME9481 into a P2 backplane slot. The middle row of P2 pins are used for I/O. Instead, use a 9921 adapter and P2 backplane with an open slot. See termination products for more information.

*For software, see Page 58. For wiring hardware, see Pages 60-65. For signal conditioning, see Page 66.*



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