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AVME941x/6x Low-Cost Digital I/O

- **AVME9410:** 64 outputs, front access
- **AVME9411:** 64 outputs, P2 access
- **AVME9412:** 32 outputs, front access
- **AVME9413:** 32 outputs, P2 access
- **AVME9460:** 64 I/O channels, front access
- **AVME9461:** 64 I/O channels, P2 access
- **AVME9462:** 32 I/O channels, front access
- **AVME9463:** 32 I/O channels, P2 access

These boards economically interface digital signals to the VMEbus. They are ideally suited to interface with a variety of discrete devices such as relays, switches, contact closures, and indicators.

Series AVME946x I/O boards allow programming of up to 64 points individually as either inputs or outputs. These I/O points are configured as 8-bit ports. 8-bit or 16-bit data transfers may be used to access the ports either individually or in pairs.

Series AVME941x boards are designed for output-only applications. They offer reduced cost and increased load voltage capacity.

FEATURES

- 32 or 64 bi-directional I/O (AVME946x)
32 or 64 outputs only (AVME941x)
- TTL and CMOS compatible
- Input hysteresis
- Open collector output with removable pull-up resistors
- Built-in protection diodes for driving relay coils
- AVME946x outputs sink up to 100mA, from an external source up to 5V
- AVME941x outputs handle up to 100mA, from an external source up to 30V

SPECIFICATIONS

Input (AVME946x only)

Input voltage range: 0-5V DC

Input hysteresis: 0.4V DC nominal

Input current: 0.2mA nominal

Digital Output

Output type: Open collector with removable pull-up resistor

Output voltage range:

0-5V DC, AVME946x

0-30V DC, AVME941x

Output current sink:

From external power supply: 100mA maximum

From internal power supply: 24mA maximum

Output saturation voltage @ 100mA: 1.1V maximum, 0.9V typical

VME Compliance

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

Data transfer bus: A24/A16:D16/D08 (EO) DTB slave

Address modifier codes: 29H, 2DH, 39H, 3DH

Memory map: Standard or short address space, supervisory or non-privileged access, occupying 1K consecutive byte locations, base address jumper-configurable

Board size: Double Eurocard (NEXP) (233mm x 160mm)

Connectors

P1: IEC Type 603-2-C096MX-xxx (96pin DIN)

P2: IEC Type 603-2-C096MX-xxx (96pin DIN)

P3: BNC jack

Environmental

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

Relative humidity: 5 to 95%, noncondensing

Isolation: Non-isolated

Power:

+5V DC +0.25V/-0.125V @ 600mA typical

ORDERING INFORMATION

Digital I/O boards

AVME9410

64 outputs, front cable access

***AVME9411**

64 outputs, rear cable access (P2)

AVME9412

32 outputs, front cable access

***AVME9413**

32 outputs, rear cable access (P2)

AVME9460

64 I/O pts, front cable access

***AVME9461**

64 I/O pts, rear cable access (P2)

AVME9462

32 I/O pts, front cable access

***AVME9463**

32 I/O pts, rear cable access (P2)

***WARNING:** Do not plug these boards into a P2 backplane slot. Middle row of P2 pins are used for I/O. Instead, use a 9921 adapter and a P2 backplane with an open slot.

Adapters

9921-16

Interfaces boards with rear cable access to four 16-channel termination panels

9921-32

Interfaces boards with rear cable access to one or two 32-channel termination panels

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