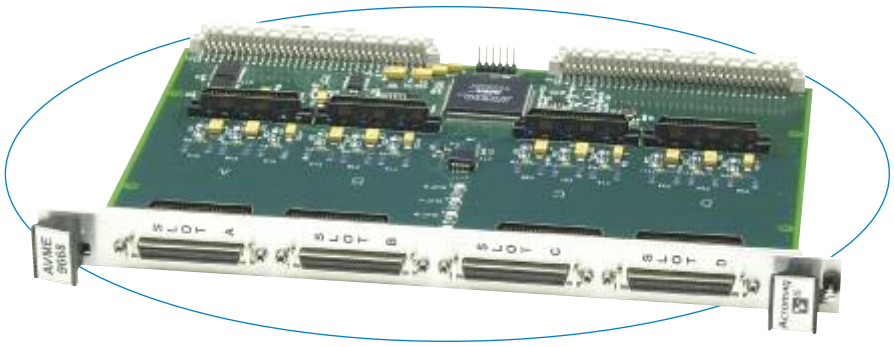
Industry Pack Carriers

Acromag
THE LEADER IN INDUSTRIAL I/O

Industry Pack Carriers

AVME9668 VMEbus 6U, Non-intelligent, IP Carrier Cards



This carrier card is ideal for applications requiring high-speed processing and secure connections to withstand shock and vibration.

The AVME9668 is a non-intelligent slave board that interfaces IP modules to the VMEbus. The full-height (6U) board holds four IP modules. All field I/O connections are made through the front panel of the carrier board.

This carrier card is ready for rugged, high-performance applications. The front-panel SCSI-2 connectors provide screw-down or spring latch connections to hold cables securely. And with support for 8MHz and 32MHz clocks, you can process data at very high speeds.

Features

- 6U VMEbus card holds four IP modules
- Industry-standard IP module interface
- Front panel SCSI-2 connectors for field I/O signals
- Supports two interrupt channels per IP
- Provides individually fused and filtered +5V, +12V, and -12V DC power lines to each IP module
- Accepts other manufacturers' IP modules
- Accommodates 8MHz and 32MHz IP clocks
- Up to 8MB of memory space per IP module

Benefits

- Full IP module data access enables convenient software configuration and control of the IP modules.
- Front panel connectors provide shielded SCSI-2 cable connections to field I/O for maximum noise immunity.
- SCSI-2 cables lock down for secure connections.
- 32MHz clock support allows faster data processing.

Operation

Acromag's carrier boards provide full data access to the IP module's I/O, ID and memory spaces. With full access to the programmable registers, you can easily configure and control the operation of the IP modules from the VMEbus.

Up to two interrupt requests are supported for each IP module. The VMEbus interrupt level is software programmable.

Individual passive filters and fuses on each IP module power supply line provide optimum filtering between the IP modules and the carrier board.

Specifications

IP Compliance (ANSI/VITA 4)

Meets IP specifications per ANSI/VITA 4-1995.

Electrical/mechanical interface:
Supports single or double size IP modules.
32-bit IP modules are not supported.

I/O space and ID space supported.

Memory space: Supports 1MB to 8MB per IP module.

8 and 32MHz IP modules are supported.

Interrupts: Supports two interrupt requests per IP module and interrupt acknowledge cycles, D16/D08(O).

VMEbus Compliance

Meets VME specifications per revision C.1 dated October 1985, IEC 821-1987 and IEEE 1014-1987.

Data transfer bus: A24/A16:D16/D08(EO) DTB slave; supports Read-Modify-Write cycles.

Interrupts: Creates I(1-7) programmable request levels (up to two requests sourced from each IP module). D16/D08(O) interrupter (interrupt vectors come from IP modules). Carrier registers are for control and status monitoring. Interrupt release mechanism is Release on Register Access (RORA) type.

Environmental

Operating temperature: 0 to 70°C (AVME9668) or -40 to 85°C (AVME9668E models).

Storage temperature: -25 to 85°C (AVME9668) or -40 to 85°C (AVME9668E models).

Relative humidity: 5 to 95% non-condensing.

Power:
+5V (±5%): Consult factory.
±12V (±5%): 0mA (not used).
Plus IP module load.

MTBF: 2,602,547 hrs at 25°C, MIL-HDBK-21F, Notice 2.

Ordering Information

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AVME9668
6U carrier. Holds four IP modules.

AVME9668E
Same as AVME9668 plus extended temperature range.

Software *(see software documentation for details)*

IPSW-API-VXW
VxWorks® software support package

IPSW-API-QNX
QNX® software support package

IPSW-API-WIN
Windows® DLL driver software support pkg.

IPSW-LINUX
Linux™ support (website download only)

Accessories *(see accessories documentation for details)*

5028-438
Cable, SCSI-2 to SCSI-2, shielded.

5028-378
Termination panel, SCSI-2 connector, 50 screw terminals.

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