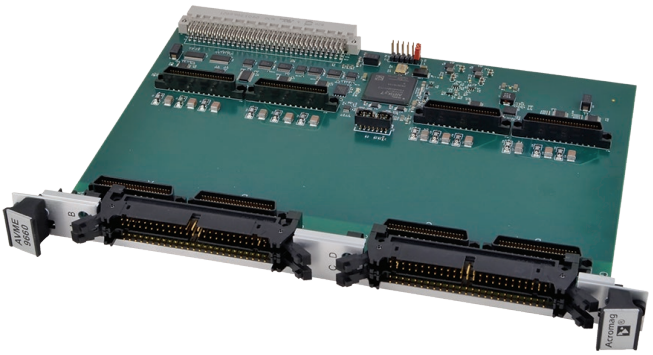
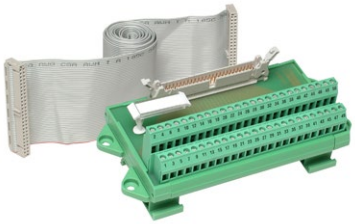
Industry Pack Carriers

AVME9660A VMEbus 6U, Non-intelligent, IP Carrier Cards

RoHS Compliant CE 2 YEAR WARRANTY





Termination panel & cable

Industry Pack modules

Holds four IP modules ◆ Supports 1MB-8MB memory per IP module ◆ Front panel connectors

Description

The AVME9660A is a non-intelligent slave board that interfaces Industry Pack (IP) modules to the VMEbus. The full-height (6U) board holds four IP modules. All field I/O connections are made to the carrier board.

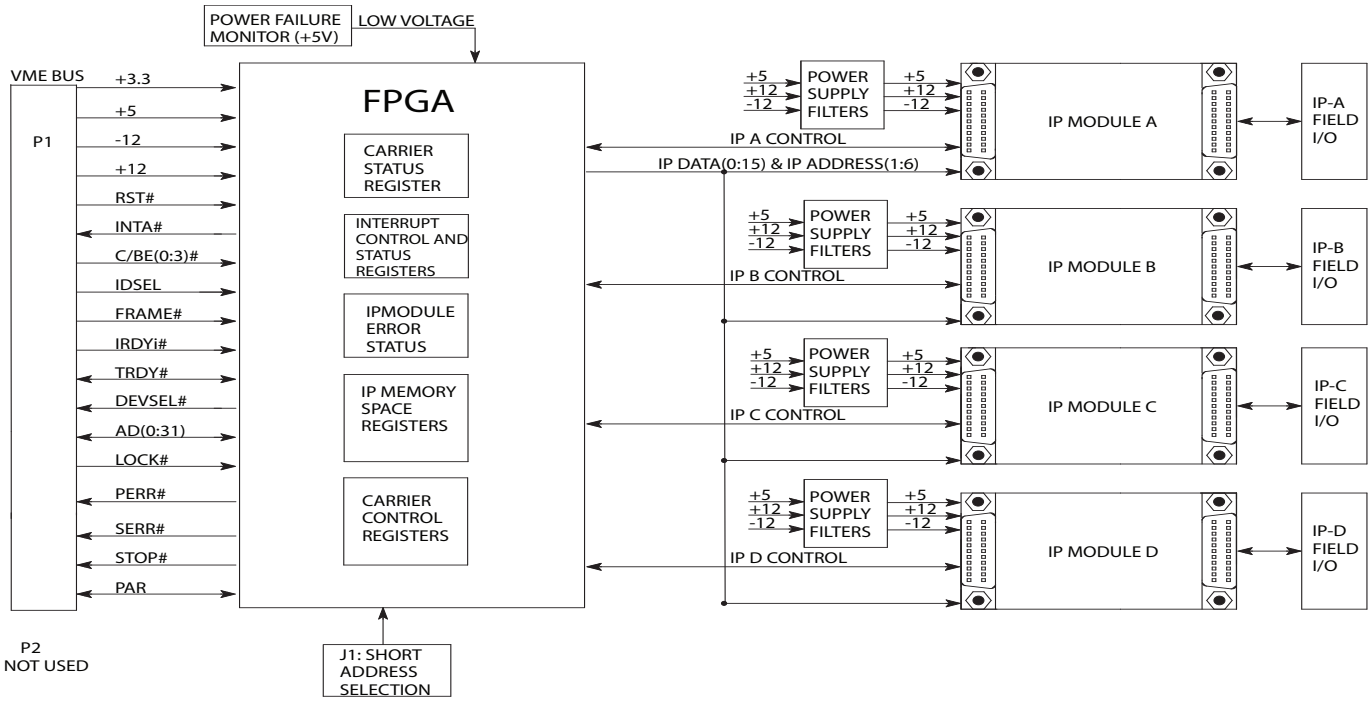
Acromag's carrier boards provide full data access to the IP module's I/O, ID and memory spaces. With full access to the programmable registers, you can easily configure and control the operation of the IP modules from the VMEbus.

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

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

Key Features & Benefits

- Full IP module data access enables convenient software configuration and control of the IP modules.
- Front panel LEDs simplify debugging with a visual indication of successful IP accesses.
- Front panel connectors provide ribbon cable access to field I/O without interference from boards in adjacent slots.



844-878-2352 ■ solutions@acromag.com ■ www.acromag.com ■ 30765 Wixom Rd, Wixom, MI 48393 USA

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Performance 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.

Interrupts: Supports two interrupt requests per IP module & 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.

Physical

Physical Configuration
Length: 9.187 inches (233.3 mm).

Width: 6.299 inches (160.0 mm).

Board Thickness: 0.062 inches (1.59 mm).

Max Component Height: 0.550 in. (13.97 mm)

Recommended Card Spacing: 0.800 inches (20.32mm)

Connectors
P1 (VMEbus): DIN 41612 96-pin Type C, Level II

P2 (VMEbus): Not Used.

A-D (Carrier Field I/O): 50-pin Male Header x2 stacked "condo type" 3M 3433-D303 with ejector latches

Environmental

Operating temperature
0 to 70°C (AVME9660A-LF)
or -40 to 85°C (AVME9660AE-LF models).

Storage temperature
-55 to 100°C.

Relative humidity
5 to 95% non-condensing.

Power
+5V (±5%): 0.233A typical, 0.275A maximum.
±12V (±5%): 0mA (not used).
Plus IP module load.

MTBF
Contact the factory

Ordering Information

Carrier Card

AVME9660A-LF*
VMEbus 6U carrier board, holds four Industry Pack modules.

AVME9660AE-LF*
VMEbus 6U carrier board, holds four Industry Pack modules. Extended temperature. (-40 to 85°C)

* The AVME9660A is designed as a fit, form and functional replacement of the AVME9660.

Accessories

5025-550
Cable, unshielded, 50-pin header both ends

5025-552
Termination panel, 50-pin connector, 50 screw terminals

IP Modules

See www.acromag.com/industrypack for more information.

Software Development Tools

IPSW-API-LNX
Linux example libraries for Industry Pack modules and PCI/CompactPCI carrier cards.

IPSW-API-VXW
Deluxe Library (I/O function routines for VxWorks® 6.x 32-bit, x86, PowerPC, and other RTOS environments), CD-RROM

IPSW-API-WIN
64-bit and 32-bit Windows® DLL driver and demonstration software for Industry Pack Modules, PCI, and cPCI carriers.

MADE IN USA ISO9001 AS9100

Acromag® THE LEADER IN INDUSTRIAL I/O

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