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Find the *Acromag / Xembedded / Xycom AVME9630* at our website: *Click HERE*

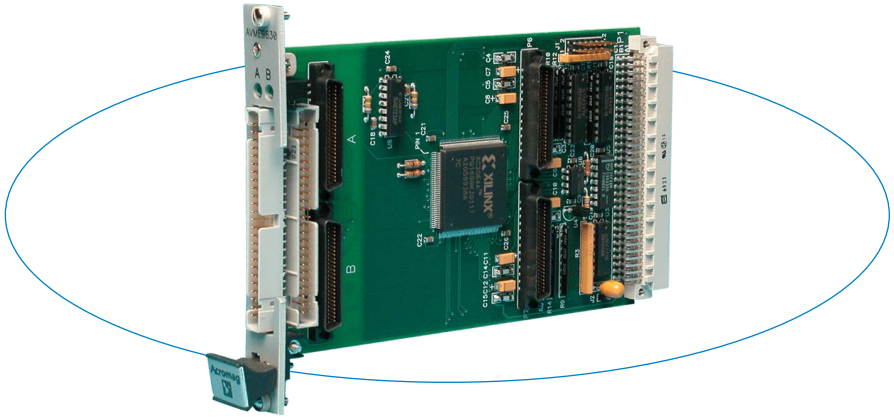
Industry Pack Carriers

Acromag
THE LEADER IN INDUSTRIAL I/O

Industry Pack Carriers

AVME9630 VMEbus 3U, Non-intelligent, IP Carrier Cards

The AVME9630 is a non-intelligent slave board that interfaces IP modules to the VMEbus. The half-height (3U) board holds two IP modules. All field I/O connections are made to the carrier board.



Mix and match plug-in modules with different I/O functions to quickly create custom I/O boards with hundreds of channels.

Features

- 3U model holds two modules
- Industry-standard IP module interface
- Front panel connectors for field I/O signals
- Supports two interrupt channels per IP
- Provides individually isolated and filtered +5V, +12V, and -12V DC power lines to each IP module
- Accepts other manufacturers' IP modules
- Locking front panel connectors

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.

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 on each IP module power supply line provide optimum filtering and power isolation 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.

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 (AVME9630/60) or -40 to 85°C (AVME9630E/60E models).

Storage temperature: -25 to 85°C (AVME9630/60) or -40 to 85°C (AVME9630E/60E models).

Relative humidity: 5 to 95% non-condensing.

Power:
+5V (±5%): 275mA maximum.
±12V (±5%): 0mA (not used).
Plus IP module load.

MTBF: 453,851 hrs. at 25°C, MIL-HDBK-217F, notice 2.

Ordering Information

Industry Pack Carriers

AVME9630: not available for new designs
3U carrier. Holds two IP modules.

AVME9630E: not available for new designs
Same as AVME9630 plus extended temperature range.

Software *(see software documentation for details)*
IPSW-API-VXW
VxWorks® software support package

Accessories *(see accessories documentation for details)*
5025-550: Cable, unshielded, 50-pin header both ends
5025-552: Termination panel, 50-pin connector, 50 screw terminals
TRANS-GP: Transition module

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