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TECHNOLOGY GROUP

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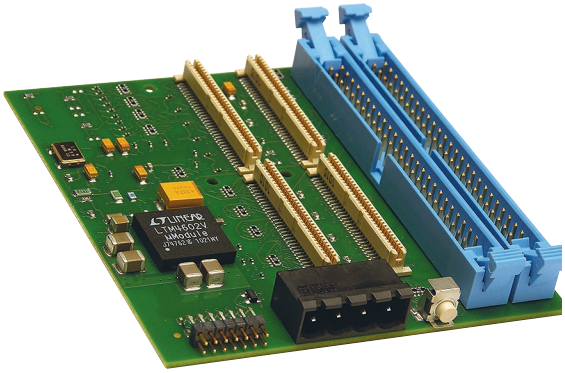
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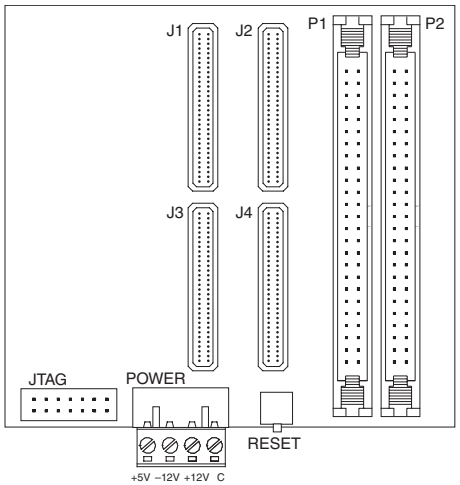
Find the *Acromag / Xembedded / Xycom APMC4110* at our website: *Click HERE*

PMC Module Carriers

APMC4110 Busless PMC Module Carrier Card

24 HOUR STOCK ITEM 2 YEAR WARRANTY





Holds one PMC module ◆ Delivers power to PMC module ◆ Enables a trouble-free start-up sequence

Description

This PMC module carrier card allows use of a PMC module in an independent stand-alone mode. The carrier card delivers power to the PMC module and regulates the PCI bus start-up sequence to prevent a system lock-up by the connection to the local bus.

As a non-intelligent carrier, the board acts simply as an adapter to route signals to and from the PMC module. The user has full access to the field I/O via two 50-pin ribbon cable connectors.

Using an external power supply, this carrier card allows use of any industry-standard PMC module. The on-board DC-DC converter creates +3.3VDC from the external +5VDC source, lowering the number of external power connections required.

For troubleshooting, a 14-pin Xilinx JTAG connector facilitates boundary scan debugging. Also, a manual reset button allows the user to force an RST# signal when needed.

Key Features & Benefits

- Single-slot PMC carrier card
- Stand-alone design does not require expensive card cage or other computer chassis
- Ideal for custom computing solutions based on configurable FPGA modules
- On-board DC-DC converter provides +3.3V DC to the PMC module from a +5V power source
- Users can optionally provide a ±12V DC source
- Manual reset button initiates a PCI reset at user's discretion
- Voltage monitor designed to prevent code execution errors during power-up, power-down, or potential brown-out conditions when +5V DC supply dips too low
- A standard 14-pin Xilinx JTAG connection is available for utilizing the TDI, TDO, TCK, and TMS signals
- Front or rear connection I/O access

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Tel 248-295-0310 ■ solutions@acromag.com ■ www.acromag.com ■ 30765 Wixom Rd, Wixom, MI 48393 USA

PMC Module Carriers

APMC4110 Busless PMC Module Carrier Card

Performance Specifications

PMC Compatibility

Pin assignment conforms to PCI Bus Specification, Revision 3.0.

Physical

Physical Configuration
Height: 3.300 inches (83.820 mm).

Depth: 3.520 inches (89.408 mm).

Board Thickness: 0.063 inches (1.600 mm).

Unit Weight: 0.107 lbs. (0.053 kg).

Connectors
P1, P2 (Field I/O): 50-pin, ribbon cable, male receptacle headers.

P3: 4-pin power header.

P4: 14-pin Xilinx JTAG port.

J1 - J4: 64-pin PMC module connectors.

Environmental

Operating temperature
-40 to 85°C.

Storage temperature
-55 to 120°C.

Relative humidity
5 to 95% non-condensing.

Power
+5V (±5%): 66mA, typical.

+12V (±10%): 0mA, used by PMC module only.

-12V (±10%): 0mA, used by PMC module only.

Note that 3.3V is generated from the 5V supply. Power requirements do not include the PMC module.

±12.0V DC is optional based on user's needs.

Isolation
Non-Isolated. PCI interface and field commons have a direct electrical connection.

MTBF
Contact the factory.

Ordering Information

Carrier Card

APMC4110
Stand-alone powered PMC module carrier card.

Accessories

5025-550-x
Flat ribbon cable, non-shielded, 50-pin connector at both ends. Specify x = length, in feet (12ft. max.).

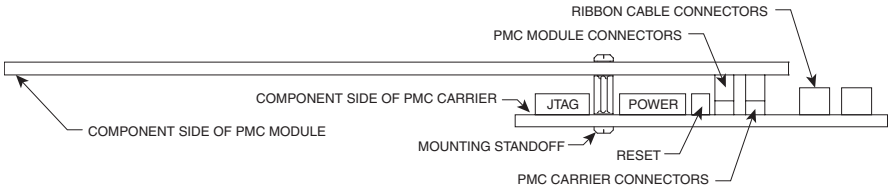
5025-552
Termination panel, DIN rail-mount, 50 screw terminals, 50-pin ribbon cable connector.

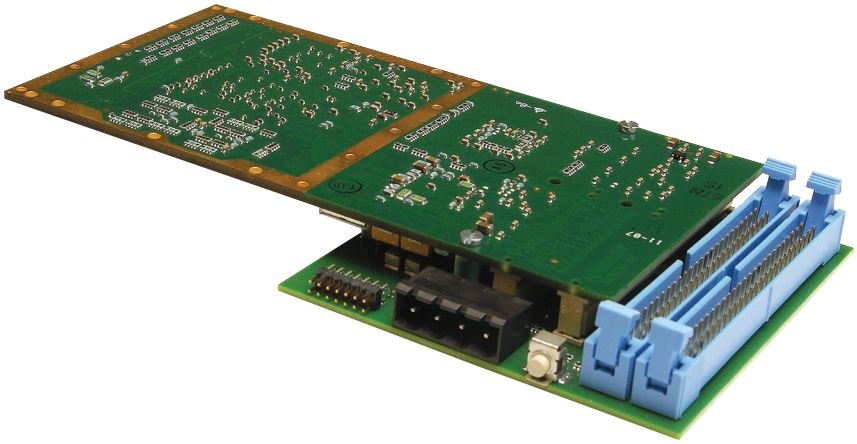
PMC Modules

See www.acromag.com for more information.

Software Development Tools

See www.acromag.com for more information.





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