

General Features

The ACP-1 is member of AIM's new family of 64bit extended PMC Carrier Boards. The ACP-1 is a 'Short Length PCI' module format with one PMC slot to plug in a standard PMC module. The ACP-1 implements a PCI-to-PCI Bridge using the industry standard INTEL device. It fulfils the requirements of the PCI Bus Specification Revision 2.3, for both the Primary and Secondary side. The PMC-slot is in conformance with the Draft Standard Physical and Environmental Layers for PCI Mezzanine Cards (P1386.1/Draft 2.4).

PMC Module Interface

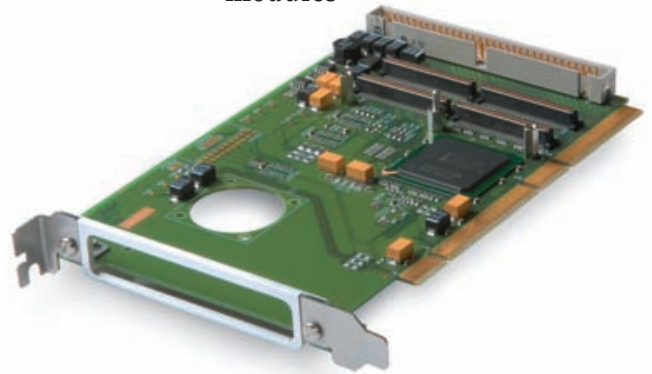
The ACP-1 is designed to plug all standard PMC modules with a maximum PCIbus width of 64bit and a PCIbus operation frequency up to 66 MHz.

The ACP-1 carrier board Interface is of an Universal I/O signalling voltage type and can be plugged in either a +3.3V or +5.0V PCI- Slot.

On the secondary PCIbus side, the PMC slot is configured to support +3.3V, I/O signalling voltage for use with +3.3V PMC modules. For +5.0V PMC modules the Carrier is identified by a different part number. The use of a voltage keying pin protects against false PMC assembly.

ACP-1

**PCI Generic Carrier Card for
PMC (PCIbus Mezzanine Card)
modules**

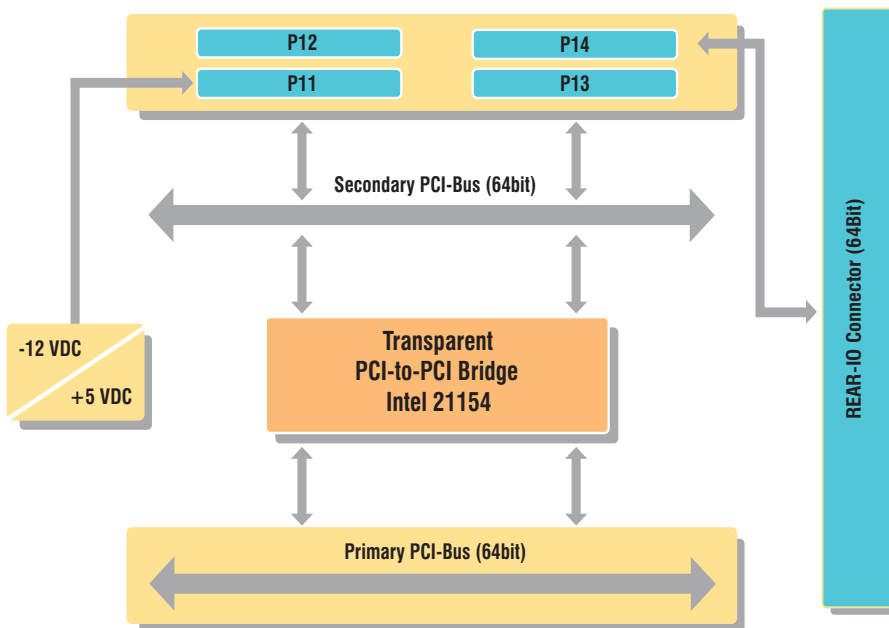


**Plug all standard PMC
modules with a maximum
PCIbus width of 64bit!**

Key Features

- Easily configured with any AIM PMC Databus Module: AFDX/ARINC664, ARINC429, MIL-STD-1553 or any standard Third Party PMC module.
- Up to 66MHz operation for +3.3V environments
- +5.0V signalling environment available
- 64 bit PCI bus extension
- Fully compliant to PCI Specification, Rev. 2.3
- Hosts PMC interface designed to PMC standard P1386.1/Draft 2.4
- Onboard Ribbon cable connector provided for access to the PMC- Rear I/O signals (P14)
- On-board -12VDC Power Supply (up to 10 Watts) to supply ARINC429 Transmitters

PMC Slot



ACP-1

PCI Generic Carrier
Card for PMC
(PCibus Mezzanine Card)
modules

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Technical Data

PCI Interface

- Fully compliant to PCI Local Bus Specification, Revision 2.3
- Supports +5V and +3.3V signalling voltage
- PCI Databus width of 32bit / 64bit
- PCI Databus operation of up to 66MHz
- INTEL 21154 PCI-to-PCI Bridge Controller between Host PCibus and local PCibus

PMC Interface

- Provides one PMC slot
- Fully compliant to PCI Mezzanine card standardisation P1386.1 / Draft 2.4
- Supports either +5V or +3.3V signalling voltage, protected by PMC Keying Code (configuration / Ordering option)
- PMC Databus width of 32bit / 64bit
- PMC Databus operation of up to 66MHz
- On-board -12VDC Power Supply (up to 10 Watts) to supply ARINC429 Transmitters

Front Panel: PMC-Bezel standard Breakout on PCI- Bracket

Dimensions: Short Length PCI - Module format: 167, 64mm x 106, 68mm

Power Dissipation: 2.2 Watt maximum: full BusLoad (excludes PMC dissipation)

Temperature: 0 to +70°C Standard Operating
-15 to +85°C Extended Temperature
-55 to +125°C Storage

Humidity: 5 to 95% non-condensing

Ordering Information

ACP-1: PCI Carrier Module with one PMC slot

ACP-1-5V: PCI Carrier Module with one PMC slot (5V version)