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CPCI-4SIP-PLX

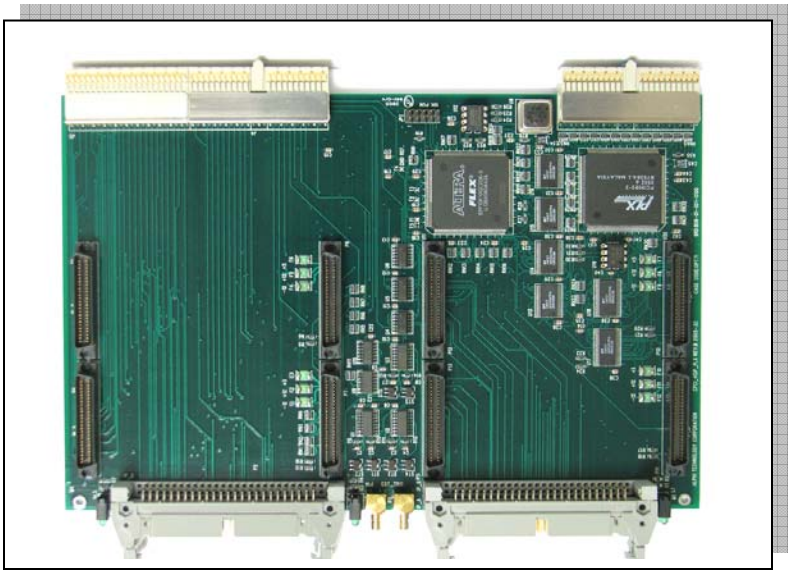
CPCI Module

CPCI Slave Quad Industry Pack Carrier, PLX

The CPCI-4SIP-PLX 6U module provides a high-performance flexible I/O scheme, that support industry standard Industry Packs™. For applications requiring low cost, high density I/O or unique combinations, the CPCI-4SIP-PLX is the perfect solution

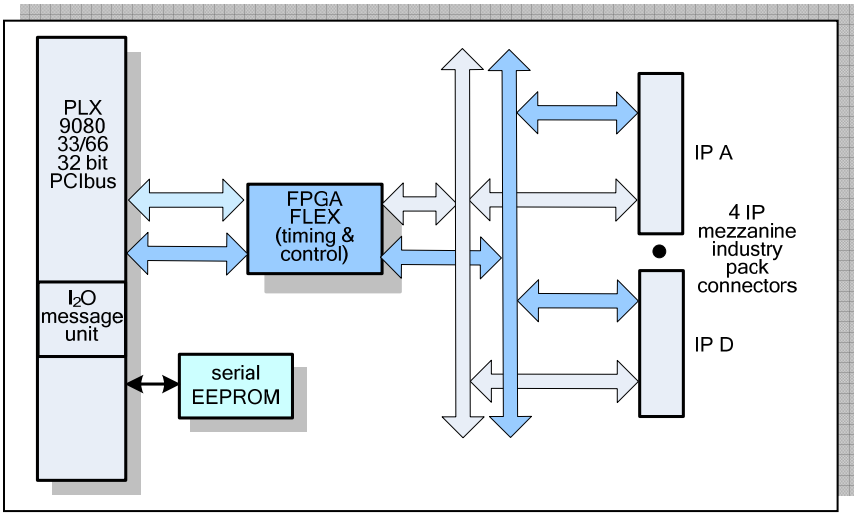
Features

- Slave quad industry pack carrier, CPCI 6U format
- 3.3 or 5 volts PCI signaling
- Support for up to four IP modules
- 8 MHz or 32 MHz IP operation Per slot software programmable
- Direct I/O or Memory mapped access from CPCI bus via PLX 9080 PCI Chip
- Supports double-wide form factor Industry Pack
- Full interrupt support of host
- Front panel I/O connectors for all IP's; rear connector I/O also available
- Up to 196 I/O's on one single slot



Block Diagram Overview

The CPCI-4SIP-PLX is a 6U format slave Compact PCI (CPCI) bus IP carrier. The CPCI-4SIP-PLX provides mechanical support and the electrical interfaces for four single width IP modules, or two double width IP modules. Multiple CPCI-4SIP-PLX boards may be installed in a single system.



Available Software Drivers:

- Labview
- Linux
- Window XP

Applications:

For application requiring low cost, high density I/O or unique I/O combinations, the CPCI-4SIP-PLX is the perfect solution.

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Alphi Technology Corporation, 1898 E. Southern Ave., Tempe, Arizona, 85282
Telephone: 480.838.2428 Fax: 480.838.4477
Contact Email: engineering@alphitech.com Visit: www.alphitech.com

CPCI-4SIP-PLX

CPCI Module

Industry Pack Specifications:

- Meets ANSI/VITA 4-1995
- 8/32 MHz synchronous operation
- Supports ID, 128 byte I/O, interrupt. & 8 Mbyte memory spaces
- 2 Interrupts per module
- Two passive DMA channels are possible.
- Hardware self timed per IP module
- Triggered via system reset and software control
- Jumper or software time-out function
- 5, +/-12 volt reset-able fuse per IP
- 8/16 bit data on 3U board, 32 bit on 6U board

Operating Environment:

- Operating temperature
  Commercial: 0 to +70 ºC
  Optional: -25 ºC to +80 ºC
- Non-operating: -40 ºC to +85 ºC
- Airflow requirement – 5 CFM
- Humidity – 5 to 90% (non-cond)
- Altitude – 0 to 10,000 feet

Mechanical Environment:

- Size – 6U CPCI module
  233.35mm x 160mm
- Power – 1.5 watt
- Vibration – 0.5G, 20-2000 Hz rand
- Shock – 20G, 11 msec, ½ sine
- Weight – tbd
- MTBF – >250,000 hours

PCI Bus Controller Features:

- The PLX PCI 9080 is PCI Version 2.1 compliant
- Bus Master interface chip for adapters and embedded systems
- Programmable local bus supports non-multiplexed 32-bit address/data, multiplexed 32- or 16-bit, and accesses of 32-, 16-, or 8-bit local bus devices
- I_2O compatible messaging unit
- 3.3 or 5 volt PCI signaling, 5 volt core, low-power CMOS in 208-pin PQFP
- Two independent programmable DMA channels for local bus memory to/from PCI host bus data transfers
- Eight programmable FIFOs for zero wait state burst operation
- PCI to/from local data transfers up to 133MB/sec
- Local bus runs asynchronously to the PCI bus
- Eight 32-bit mailbox and two 32-bit doorbell registers
- Performs Big Endian/Little Endian conversion

**For a complete list of Industry Packs offered by Alphi Technology please visit our WEB site at www.alphitech.com*

Ordering Information:

CPCI-4SIP-PLX-F	6U CPCI Slave Industry Pack Carrier with Front I/O only
CPCI-4SIP-PLX-R	6U CPCI Slave Industry Pack Carrier with Rear I/O only
CPCI-4SIP-PLX-FR	6U CPCI Slave Industry Pack Carrier with Front and Rear I/O
	Optional Accessories
CBL-50-HDR	Cable
TB-50-HDR	Terminal block
CPCI-RPIO-HDR	6U Rear I/O inter-connect module for up to 4x IP's

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