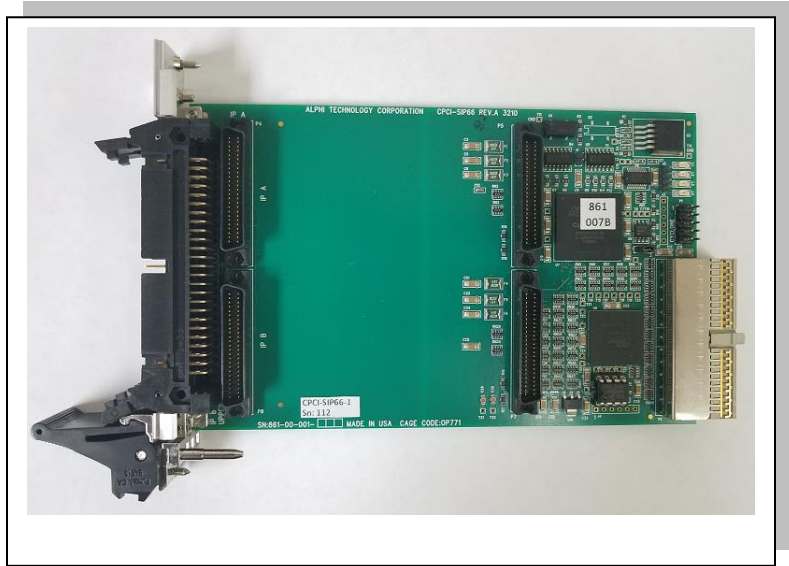


## CPCI Slave Dual Industry Pack Carrier, PLX

The CPCI-SIP66 3U module provides a high-performance flexible I/O scheme, that supports industry standard Industry Packs™. For applications requiring low cost, high density I/O or unique combinations, the CPCI-SIP66 is the perfect solution

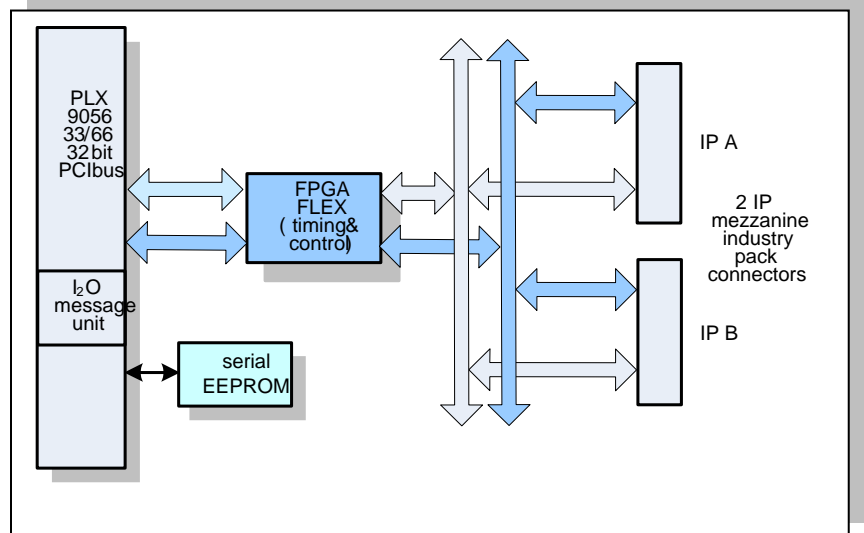
### Features

- Slave dual industry pack carrier, CPCI 3U format
- 3.3 or 5 volts PCI signaling
- Support for up to two 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 9056 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 96 I/O's on one single slot



### Block Diagram Overview

The CPCI-SIP66 is a 3U format slave Compact PCI (CPCI) bus IP carrier. The CPCI-SIP66 provides mechanical support and the electrical interfaces for two single width IP modules, or one double width IP modules. Multiple CPCI-SIP66 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-SIP66 is the perfect solution.

**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 °C  
 Optional: -40 °C to +85 °C
- Non-operating: -55 °C to +100 °C
- Airflow requirement – 5 CFM
- Humidity – 5 to 90% (non-cond)
- Altitude – 0 to 10,000 feet

**Mechanical Environment:**

- Size – 3U CPCI module  
 100mm x 160mm
- Power – 1 watt
- Vibration – 0.5G, 20-2000 Hz rand
- Shock – 20G, 11 msec, ½ sine
- Weight – 5 ounces
- MTBF – >250,000 hours

**PCI Bus Controller Features:**

**PCI Bus:**

- PLX 9056 33/66MHz 32-bit, PCI r2.2 compliant
- Motorola PowerQUICC and generic 32-bit, 66MHz local bus modes
- 3.3V I/O, 5V tolerant bus interfaces
- PICMG 2.1 r2.0
- Zero wait state burst operation, with PCI bus bursts to 264 MB/sec and local bus bursts to 264 MB/sec
- 2 DMA channels
- Direct master data transfers
- Direct slave data transfers

**PCI Bus Control:**

- I<sup>2</sup>O r1.5 messaging unit
- 8 mailboxes and 32 doorbell registers
- PCI arbiter supports 7 external masters
- Host mode reset/interrupt
- Power management event generation support
- Serial EEPROM interface

*\*For a complete list of Industry Packs offered by Alphi Technology please visit our WEB site at [www.alphitech.com](http://www.alphitech.com)*

**Ordering Information:**

CPCI-SIP66                      3U CPCI Slave Industry Pack Carrier with Front I/O only  
 CPCI-SIP66-I Same as above but Industrial temp: -40 °C to +85 °C

**Optional Accessories**

CBL-50-HDR                      Cable  
 TB-50-HDR                      Terminal block

