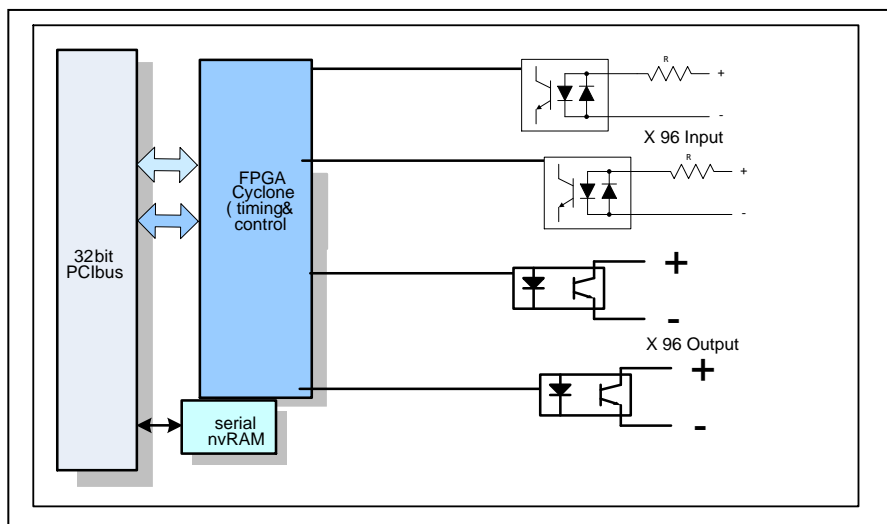


PCle 96 Input I/O Card Isolated

Features

- PCIe x1 module
- Front Panel I/O
- 64 inputs and 64 Outputs optically isolated
- Back-to-back optically isolate diode input (no polarity input required) with selectable voltage dropping resistor in series
- V ISO 5300V RMS
- Conductive Cooled Option
- 6U form factor



Block Diagram Overview

The input /Output board consists of FPGA input / Output control. The FPGA provides the timing and control. Each input and output has its own optical isolation, and supports a hardware adjustable resistor/opto-diode combination for various input voltage ranges. An PCI controller provides the interface to the host computer. All I/O is accessible from the rear I/O.

Available Software Drivers and Software Tools:

- C library dll's
- Windows NT drivers available, service pack 2 & 3

Applications:

Used in industrial applications where there is a need to control devices such as LED's, lamps, relays, contactors, etc. Full output system isolation is provided up to 5300Vrms/channel.



Ordering Information:

CPCI-96DIO-ISO	96 channel input/Output ; optically isolated; 4-30V input range
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Optional Accessories

Z8536 Features

- Two independent 8-bit, double-buffered bidirectional I/O ports
- I/O ports feature programmable polarity
- Programmable direction at the bit level
- Flexible pattern-recognition logic; programmable as a 16-bit vector interrupt controller
- Three independent 16-bit counter/timers with up to four external access lines per counter/timer
- Four handshake modes
- All internal registers are readable and writable
- All registers have own unique address so that they can be accessed directly

PCI Bus Controller Features:

- Uses the AMCC S5935 PCI controller
- PCI 2.1 compliant master/slave
- 132 Mbytes/sec transfer rate
- Supports Windows NT service pack 2 & 3
- PCI bus operation DC to 33 MHz
- Four definable pass-through data channels
- Two 32 byte internal FIFOs with DMA
- Mail box registers with byte level status
- Direct PCI and add-on interrupt pins
- Supports serial nvRAM configuration space

I/O Specifications:

- 48 input pins, front panel accessible
- SCSI 2 style front panel connector
- Input current and the input threshold are a function of the hardware adjustable resistor and the input voltage range
 - 4.7K 4V to 30V input 3V threshold
 - 10K 7.5V to 44V input 5.4V threshold
 - 20K 14V to 60V input 9.8V threshold
- Optically isolated to 2500 VDC

Operating Environment:

- Operating temperature
 - Commercial: 0 to +70 °C
 - Optional: -25 °C to +80 °C
- Non-operating: -40 °C to +85 °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 – 1.5 watt
- Vibration – 0.5G, 20-2000 Hz rand
- Shock – 20G, 11 msec, ½ sine
- Weight – 4 ounces
- MTBF – >250,000 hours