

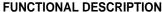


# PCIe-IIRO-16

ISO-INPUT RELAY CARD w/COS

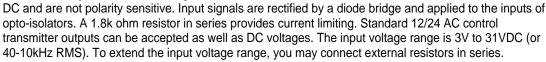
#### **FEATURES**

- 16 optically isolated, non-polarized digital inputs
- Switchable filters on inputs for electrically noisy environments
- Optically isolated channel to channel and channel to ground
- Can detect input state change and assert interrupt
- 16 electro-mechanical relay outputs
- Automatically detected under Windows



This product is a x1 lane PCIe isolated digital input and relay output board with Change of State (COS) detection capabilities.

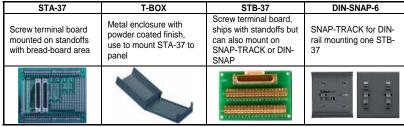
The isolated inputs can be driven by either AC or



The electro-mechanical relay outputs of the PCIe-IIRO-16 are comprised of ten form C SPDT outputs and six form A SPST (normally-open) type. The relays are all de-energized at power-on. Data to the relays is latched.

The card is 6.6 inches in length and 4.2 inches seated height. I/O wiring connections for this board are via a 78-pin D-sub connector. A molded round-wire "Y" cable is typically used to connect this card to termination panels with two 37-pin D-sub connectors.





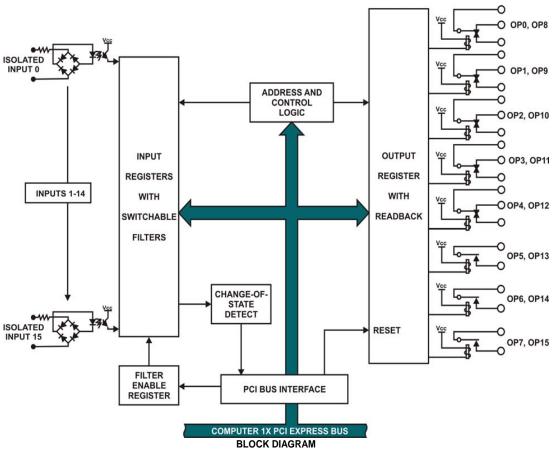
#### **SOFTWARE**

The card is supported for use in most operating systems and includes a free DOS, Linux, and Windows 2000/XP/2003/Vista/7 compatible software package. This package contains sample programs and source code in Visual Basic, Delphi, and Visual C++ for Windows. Also provided is a graphical setup program in Windows. Linux support includes installation files and basic samples for programming from user level via an open source kernel driver. Third party support includes a Windows standard DLL interface usable from the most popular application programs. Embedded OS support includes Windows XPe.



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#### **SPECIFICATIONS**

**Digital Inputs** 

Number of inputs:

Non-polarized, optically isolated from Type:

each other and from the computer. (not

TTL/CMOS compatible)

Voltage Range: 3 to 31V DC or AC (40 to 10kHz) Isolation: 500V\*(see manual) channel to channel

and channel to ground

Input Resistance: 1.8k ohms in series with two diodes and

a photo-coupler LED

Response Time: 10 mSec w/filter, 20 uSec w/o filter

**Relay Outputs** 

Number of outputs: 16

Contact Rating: 2A carry current

Contacts: Channels 0-4, 8-12 are SPDT Form C and channels 5-7, 13-15 are SPST Form

Contact Rating: Initial 100 milliohms maximum mech'l: 5 million operations minimum; Contact Life:

elect'l: 5 million ops min at full load

Operating Time: 2 milliseconds maximum

Release Time: 1 milliseconds maximum

Regulatory: UL and CSA

Enabled by software, generated when Interrupts

digital inputs change state.

**Power Required** 

+5VDC 0.750 A (all relays ON)



#### Environmental

0 to +55°C Operating Storage: -40 to +85°C

Humidity: 5 to 90 percent (non-condensing) Weight: Approx. 8 oz. (227 grams) 6.15" (156 mm) long Size:

### **ORDERING GUIDE**

PCIe-IIRO-16 16 isolated inputs 16 relay outputs

| DB37M Connector Pin Assignments |     |                |     |
|---------------------------------|-----|----------------|-----|
| Signal Name                     | Pin | Signal Name    | Pin |
|                                 |     | IP7 (or 15)    | 1   |
| IP7 (or 15)                     | 20  | IP6 (or 14)    | 2   |
| IP6 (or 14)                     | 21  | IP5 (or 13)    | 3   |
| IP5 (or 13)                     | 22  | IP4 (or 12)    | 4   |
| IP4 (or 12)                     | 23  | IP3 (or 11)    | 5   |
| IP3 (or 11)                     | 24  | IP2 (or 10)    | 6   |
| IP2 (or 10)                     | 25  | IP1 (or 9)     | 7   |
| IP1 (or 9)                      | 26  | IP0 (or 8)     | 8   |
| IP0 (or 8)                      | 27  | OP7 C (or 15)  | 9   |
| OP7 NO (or 15)                  | 28  | OP6 C (or 14)  | 10  |
| OP6 NO (or 14)                  | 29  | OP5 C (or 13)  | 11  |
| OP5 NO (or 13)                  | 30  | OP4 NC (or 12) | 12  |
| OP4 C (or 12)                   | 31  | OP4 NO (or 12) | 13  |
| OP3 NC (or 11)                  | 32  | OP3 C (or 11)  | 14  |
| OP3 NO (or 11)                  | 33  | OP2 NC (or 10) | 15  |
| OP2 C (or 10)                   | 34  | OP2 NO (or 10) | 16  |
| OP1 NC (or 9)                   | 35  | OP1 C (or 9)   | 17  |
| OP1 NO (or 9)                   | 36  | OP0 NC (or 8)  | 18  |
| OP0 C (or 8)                    | 37  | OP0 NO (or 8)  | 19  |

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