

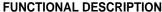


# PCIe-IIRO-16

ISO-INPUT RELAY CARD w/COS

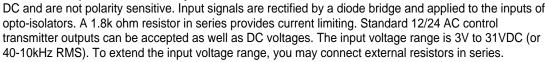
#### **FEATURES**

- 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.

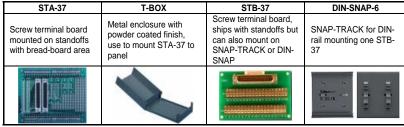
The isolated inputs can be driven by either AC or



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.





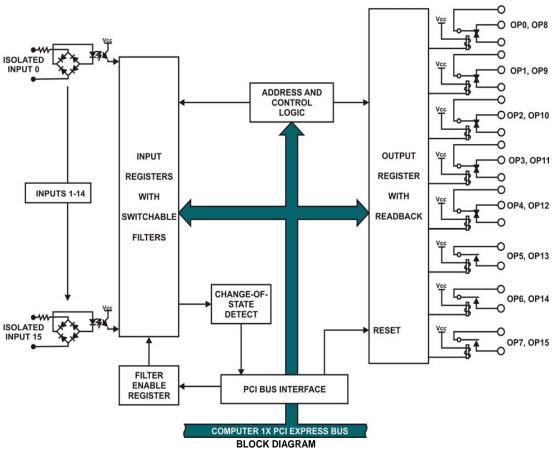
#### **SOFTWARE**

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.



 $10623 \ Roselle \ Street, San \ Diego, CA \ 92121 \bullet (858) \ 550-9559 \bullet Fax \ (858) \ 550-7322 \bullet contactus@accesio.com \bullet \\ \underline{ www.accesio.com} \ August \ 24^{th} \ 2010$ 





#### **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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## US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

### **EMEA**

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660