

# 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

## FUNCTIONAL DESCRIPTION

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



DC and are not polarity sensitive. Input signals are rectified by a diode bridge and applied to the inputs of opto-isolators. A 1.8k ohm resistor in series provides current limiting. Standard 12/24 AC control transmitter outputs can be accepted as well as DC voltages. The input voltage range is 3V to 31VDC (or 40-10kHz RMS). To extend the input voltage range, you may connect external resistors in series.

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.

## ACCESSORIES

STA-37	T-BOX	STB-37	DIN-SNAP-6
Screw terminal board mounted on standoffs with bread-board area	Metal enclosure with powder coated finish, use to mount STA-37 to panel	Screw terminal board, ships with standoffs but can also mount on SNAP-TRACK or DIN- SNAP	SNAP-TRACK for DIN- rail mounting one STB- 37
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## 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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