

Eight Relay Outputs, and Change of State Detection

### **FEATURES**

- · Eight optically isolated, non-polarized digital inputs
- Switchable filters on inputs for electrically noisy environments
- · Eight electro-mechanical relay outputs
- Optically isolated channel to channel and channel to ground
- Can detect input state change and assert interrupt
- 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 31V (rms). To extend the input voltage range, you may connect external resistors in series.

The electro-mechanical relay outputs of the PCIe-IIRO-8 are comprised of five form C SPDT outputs and three 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 male 37-pin D-sub connector. A ribbon cable can be used to connect this card to termination panels.

# ACCESSORIES

ADAP37	CAB37-XX	STA-37	T-BOX	STB-37	DIN-SNAP-6
DB37F screw terminal board plugs directly onto the card's I/O connector	Ribbon Cable Assy, XX=length in inches	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

# 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.



**Operating Time:** Release Time: Regulatory: Interrupts

+5VDC

1 milliseconds maximum UL and CSA Enabled by software, generated when digital inputs change state. **Power Required** 

0.510A (all relays ON)



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OP7 NO

OP6 NO

OP5 NO

OP4 C

OP3 NC

OP3 NO

OP2 C

OP1 NC

OP1 NO

OP0 C

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33

34

35

36

37

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OP6 C

OP5 C

OP4 NC

OP4 NO

OP3 C

OP2 NC

OP2 NO

OP1 C

OP0 NC

OP0 NO