# PCI-1750/1750S0

## 32-ch Isolated Digital I/O and 1-ch **Counter PCI Card**



## FCC CE

## Introduction

PCI-1750/1750S0 offers 16 isolated digital input channels, 16 isolated digital output channels, and one isolated counter/timer for the PCI bus. With isolation protection of 2,500 V<sub>DC</sub>, and dry contact support, PCI-1750/1750SO is ideal for industrial applications where high-voltage protection is required. Each I/O channel of the PCI-1750/1750SO corresponds to a bit in a PC I/O port. This makes PCI-1750/1750SO very easy to program. This card also offers a counter or timer interrupt and two digital input interrupt lines to a PC, so you can then easily configure the card with software.

# **Specifications**

#### **Isolated Digital Input**

- Channels
- Input Voltage
- Logic 0: 2 V max. Logic 1: 5 V min. (50 V<sub>DC</sub> max.) or dry contact
- Interrupt Capable Ch. 2 Isolation Protection
- 2.500 Vpc Opto-Isolator Response 100 µs

#### **Isolated Digital Output**

- Channels
- 16 Sink Current 200mA max. / channel (PCI-1750 NPN type)
- 200mA max. / channel (PCI-1750SO PNP type) Source Current
- **Isolation Protection** 2,500 VDC
- **Output Voltage**  $5 \sim 40 V_{DC}$ 200 mA max. per channel
- **Source Current**
- Opto-Isolator Response 100 µs
- Sufficient Withstanding 1.6A max. per PCOM current
- Over current ground

#### **Counter/Timer**

- Channels
- Resolution
- Input Voltage
  - Logic 0: 2V max. Logic 1: 5V min. (50Vpc max.)

1 MHz

- Max. Input Frequency
- Isolation Protection 2,500 V<sub>DC</sub>

#### General

- Bus Type PCI
- I/O Connectors

1 x 16-bit isolated counter

- Dimensions (L x H)
- Power Consumption
- V2.2 1 x DB37 female connector 1 x 2-pin terminal block for extended ground 175 x 100 mm (6.9" x 3.9") Typical: 5 V @ 850 mA Max.: 5 V @ 1.0 A

CN5 (wiring necessary if totally current over 1.6A)

- Operating Temperature 0 ~ 70°C (32 ~ 158°F)
- Storage Temperature -20 ~ 80°C (-4 ~ 176°F)
- Storage Humidity 5~95% RH, non-condensing

### **Ordering Information**

- PCI-1750 32-ch Isolated Digital I/O (NPN DO) and Counter PCI
- Card 32-ch Isolated Digital I/O (PNP DO) and Counter PCI PCI-1750SO Card

**Features** 

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• 16 isolated DI and 16 isolated DO channels

Interrupt handling capability

Timer/counter interrupt capability

High voltage isolation on all isolated channels (2.500 Vpc)

Supports dry contact or  $5 \sim 50 V_{DC}$  isolated inputs

High source current on isolated output channels (200 mA/channel)

Accessories PCL-10137-1E DB37 Cable, 1 m PCL-10137-2E DB37 Cable, 2 m PCL-10137-3E DB37 Cable, 3 m ADAM-3937 DB37 DIN-rail Wiring Board

# **Pin Assignments**

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INTO/IDIO	1	20	DI 1
IDI 2	2	21	IDI 3
INTO_G/IDI4	3	22	IDI 5
IDI 6	4	23	IDI 7
INT1/IDI8	5	24	IDI 9
IDI 10	6	25	IDI 11
INT1_G/IDI 12	7	26	IDI 13
IDI 14	8	27	IDI 15/Counter
IGND	9	28	IGND
COM1	10	29	IGND
IDO 0	11	30	IDO 1
IDO 2	12	31	IDO 3
IDO 4	13	32	IDO 5
IDO 6	14	33	IDO 7
IDO 8	15	34	IDO 9
IDO 10	16	35	IDO 11
IDO 12	17	36	IDO 13
IDO 14	18	37	IDO 15
COM2	19	_	J
	C	/	