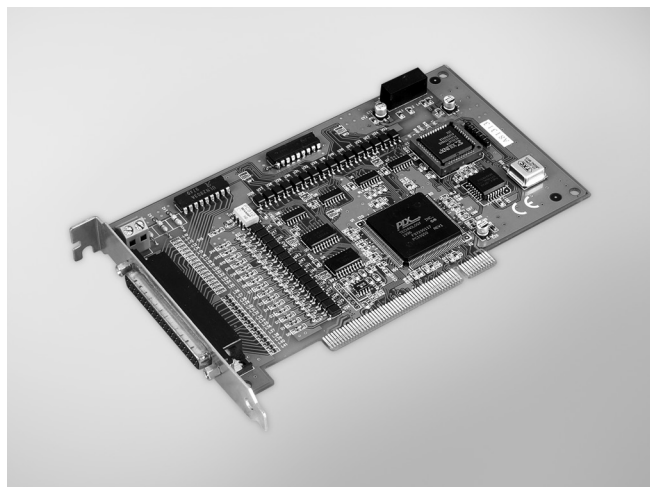


# PCI-1750

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



FCC CE RoHS

### Features

- 16 isolated DI and 16 isolated DO channels
- High voltage isolation on all isolated channels (2,500 V<sub>DC</sub>)
- High sink current on isolated output channels (200 mA/channel)
- Supports dry contact or 5 ~ 50 V<sub>DC</sub> isolated inputs
- Interrupt handling capability
- Timer/counter interrupt capability

### Introduction

PCI-1750 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 is ideal for industrial applications where high-voltage protection is required. Each I/O channel of the PCI-1750 corresponds to a bit in a PC I/O port. This makes PCI-1750 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 16
- 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 V<sub>DC</sub>
- Opto-Isolator Response 100 µs

#### Isolated Digital Output

- Channels 16
- Output Type Sink (NPN)
- Isolation Protection 2,500 V<sub>DC</sub>
- Output Voltage 5 ~ 40 V<sub>DC</sub>
- Sink Current 200 mA max. per channel
- Opto-Isolator Response 100 µs

#### Counter/Timer

- Channels 1
- Resolution 1 x 16-bit isolated counter
- Input Voltage Logic 0: 2V max.  
Logic 1: 5V min. (50V<sub>DC</sub> max.)
- Max. Input Frequency 1 MHz
- Isolation Protection 2,500 V<sub>DC</sub>

#### General

- Bus Type PCI V2.2
- I/O Connectors 1 x DB37 female connector  
1 x 2-pin terminal block for extended ground
- Dimensions (L x H) 175 x 100 mm (6.9" x 3.9")
- Power Consumption Typical: 5 V @ 850 mA  
Max.: 5 V @ 1.0 A
- 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 and Counter PCI Card

#### 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

DI0	1	DI1
DI2	2	DI3
DI4	3	DI5
DI6	4	DI7
DI8	5	DI9
DI10	6	DI11
DI12	7	DI13
DI14	8	DI15/Counter2
DI16	9	DI17
DI18	10	DI19
DI20	11	DI21
DI22	12	DI23
DI24	13	DI25
DI26	14	DI27
DI28	15	DI29
DI30	16	DI31
DI32	17	DI33
DI34	18	DI35
DI36	19	DI37

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