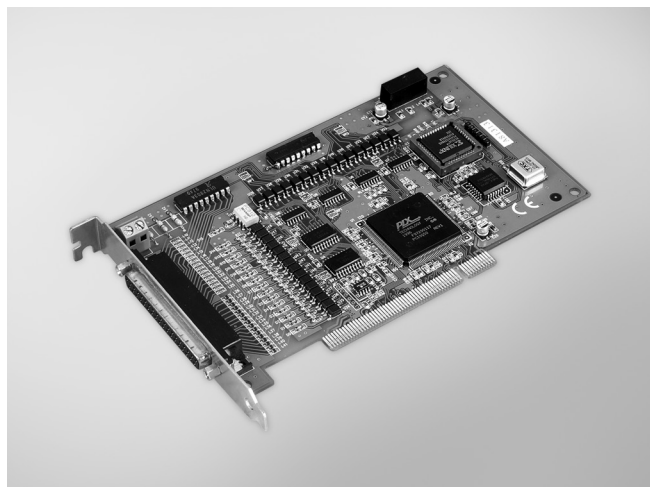


# PCI-1750

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



FCC CE RoHS  
COMPLIANT  
2002/95/EC

### 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	20	DI1
DI2	2	21	DI3
DI4	3	22	DI6
DI6	4	23	DI7
DI8	5	24	DI9
DI10	6	25	DI11
DI12	7	26	DI13
DI14	8	27	DI15/Counter2
IGND	9	28	IGND
COM1	10	29	IGND
IDO0	11	30	IDO1
IDO2	12	31	IDO3
IDO4	13	32	IDO5
IDO6	14	33	IDO7
IDO8	15	34	IDO9
IDO10	16	35	IDO11
IDO12	17	36	IDO13
IDO14	18	37	IDO15
COM2	19		