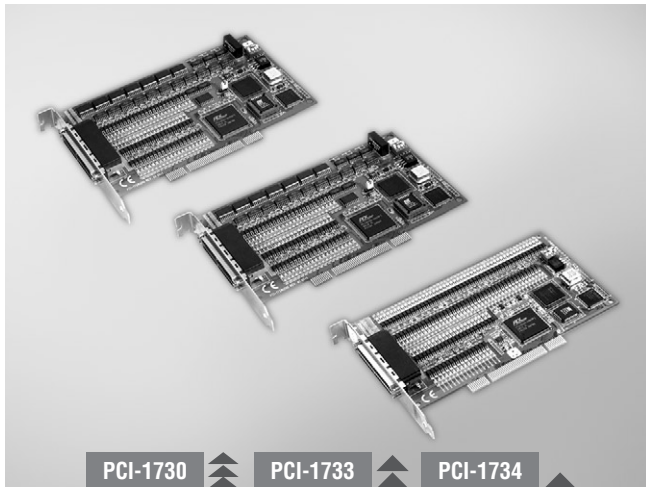


# PCI-1730 PCI-1733 PCI-1734

32-ch Isolated Digital I/O PCI Card

32-ch Isolated Digital Input PCI Card

32-ch Isolated Digital Output PCI Card



## Features

- ISA-Compatible with PCL-730/733/734
- 32-ch isolated digital I/O (16-ch digital input and 16-ch digital output)
- 32-ch TTL isolated digital I/O (16-ch digital input and 16-ch digital output)
- High output driving capacity
- Interrupt capability
- Two 20-pin connectors for isolated digital I/O channels and two for TTL digital I/O channels
- D-type connector for isolated input and output channels
- High-voltage isolation on output channels

## Introduction

PCI-1730, PCI-1733, and PCI-1734 offer isolated digital input channels as well as isolated digital output channels with isolation protection up to 2,500 V<sub>DC</sub>, which makes them ideal for industrial applications where high-voltage isolation is required. There are also 32 TTL digital I/O channels on PCI-1730.

## Specifications

### Digital Input (PCI-1730 only)

- **Channels** 16 (16-ch/group)
- **Compatibility** 5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.  
Logic 1: 2.0 V min.
- **Interrupt Capable Ch.** 2 (DI0, DI1)

### Isolated Digital Input

- **Channels** 16 (16-ch/group)
- **Input Voltage** Logic 0: 1 V max. (2 V max.)  
Logic 1: 5V min. (30 V max.)
- **Interrupt Capable Ch.** 2 (IDIO, IDI1)
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **Opto-Isolator Response** 25 μs
- **Input Resistance** 2.7 kΩ @ 1 W

### Digital Output (PCI-1730 only)

- **Channels** 16 (16-ch/group)
- **Compatibility** 5 V/TTL
- **Output Voltage** Logic 0: 0.8 V max.  
Logic 1: 2.0 V min.
- **Output Capability** Sink: 24 mA  
Source: 15 mA

### Isolated Digital Output

- **Channels** 16 (16-ch/group)
- **Output Type** Sink type (NPN)
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **Output Voltage** 5 ~ 40 V<sub>DC</sub>
- **Sink Current** 200 mA max./channel
- **Opto-Isolator Response** 25 μs

### General

- **Bus Type** PCI V2.2
- **I/O Connectors** 1 x DB37 female connector  
4 x 20-pin box header (PCI-1730 only)
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical: 5 V @ 250 mA, 12 V @ 35 mA  
Max: 5 V @ 400 mA, 12 V @ 60 mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Storage Temperature** -25 ~ 85° C (-13 ~ 185° F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing (see IEC 68-2-3)

## Ordering Information

- **PCI-1730** 32-ch Isolated Digital I/O PCI Card
- **PCI-1733** 32-ch Isolated Digital Input PCI Card
- **PCI-1734** 32-ch Isolated Digital Output PCI Card
- **PCL-10120-1** 20-pin Flat Cable, 1 m
- **PCL-10120-2** 20-pin Flat Cable, 2 m
- **PCLD-782** 16-ch Isolated DI Board w/ 1m 20-pin Flat Cable
- **ADAM-3920** 20-pin DIN-rail Flat Cable Wiring Board
- **PCLD-885** 16-ch Power Relay Board w/ 20p & 50p Flat Cables
- **PCLD-780** Screw Terminal Board w/ Two 20-pin Flat Cables
- **PCLD-785** 16-ch Relay Board w/ One 1m 20-pin Flat Cable
- **PCLD-786** 8-ch SSR I/O Module Board w/ 20-pin Flat Cable
- **PCLD-880** Wiring Board w/ Two 20-pin Flat Cables & Adapter
- **ADAM-3937** DB37 DIN-rail Wiring Board
- **PCL-10137-1** DB37 Cable, 1 m
- **PCL-10137-2** DB37 Cable, 2 m
- **PCL-10137-3** DB37 Cable, 3 m