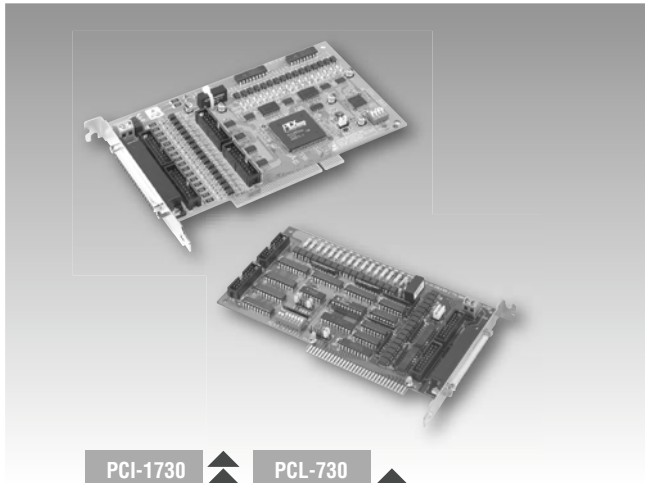


PCI-1730 PCL-730

**32-ch Isolated Digital I/O card with
32 TTL Channels and PCI Interface**

**32-ch Isolated Digital I/O card with
32 TTL Channels and ISA Interface**



PCI-1730

PCL-730

Features

- 32 isolated DIO ch. (16 inputs and 16 outputs)
- 32 TTL-level DIO ch. (16 inputs and 16 outputs)
- 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 and PCL-730 offer isolated digital input channels as well as isolated digital output channels with isolation protection up to 2,500 V_{DC}, which makes them ideal for industrial applications where high-voltage isolation is required. There are also 32 TTL DIO channels.

Specifications

Digital Input

- **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 (DIO, DI1)

Isolated Digital Input

- **Channels** 16 (16-ch/group)
- **Input Voltage** Logic 0: 1 V max. (PCI-1730 2 V max.)
Logic 1: 5V min. (PCI-1730: 30V max., PCL-730: 24 V)
- **Interrupt Capable Ch.** PCI-1730: 2 (IDIO, IDI1)
PCL-730: 2 (IDIO, IDI1)
- **Isolation Protection** 2,500 V_{DC}
- **Opto-Isolator Response** PCL-730: 100 μ s, PCI-1730: 25 μ s
- **Input Resistance** PCI-1730: 2.7 k Ω @ 1 W
PCL-730: 1.2 k Ω @ 0.5 W

Digital Output

- **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: PCI-1730: 24 mA, PCL-730: 8 mA
Source: PCI-1730: 15 mA, PCL-730: 0.4 mA

Isolated Digital Output

- **Channels** 16 (16-ch/group)
- **Output Type** Sink type (NPN)
- **Isolation Protection** 2,500 V_{DC}
(PCL-730: 1,000 V_{DC})
- **Output Voltage** 5 ~ 40 V_{DC}
- **Sink Current** 200 mA max./channel
- **Opto-Isolator Response** PCL-730: 100 ms, PCI-1730: 25 ms

General

- **Bus Type** PCI-1730: PCI V2.2
PCL-730: ISA
- **I/O Connectors** 1 x 37-pin D-type female
2 x 20-pin box header for flat cable
- **Dimensions (L x H)** PCL-730: 185 x 100 mm (7.3" x 3.9")
PCI-1730: 175 x 100 mm (6.9" x 3.9")
- **Power Consumption**
PCL-730: Typical: +5 V @ 330 mA
Max: +5 V @ 500 mA
PCI-1730: 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)
- **Storing Temperature** PCL-730: -20 ~ 70° C (-4 ~ 158° F)
PCI-1730: -25 ~ 85° C (-13 ~ 185° F)
- **Storing Humidity** 5 ~ 95% RH, non-condensing (see IEC 68-2-3)

Ordering Information

- **PCI-1730** 32-ch Isolated DIO Card, manual and driver CD-ROM (cable not included.)
- **PCL-730** 32-channel isolated digital I/O card, user's manual and driver CD-ROM (cable not included)
- **PCL-10120-1** 20-pin flat cable, 1m
- **PCL-10120-2** 20-pin flat cable, 2m
- **PCLD-782** 16-channel opto-isolated D/I board
- **ADAM-3920** 20-pin flat cable wiring terminal for DIN-rail mounting
- **PCLD-885** 16-channel power relay (form A) output board
- **PCLD-785** 16-channel relay output board
- **PCLD-786** 8-channel SSR I/O module carrier board
- **PCLD-780** Universal screw terminal board
- **PCLD-880** Universal screw terminal board
- **ADAM-3937** DB37 wiring terminal for DIN-rail mounting
- **PCL-10137-1** DB37 cable, 1m
- **PCL-10137-2** DB37 cable, 2m
- **PCL-10137-3** DB37 cable, 3m