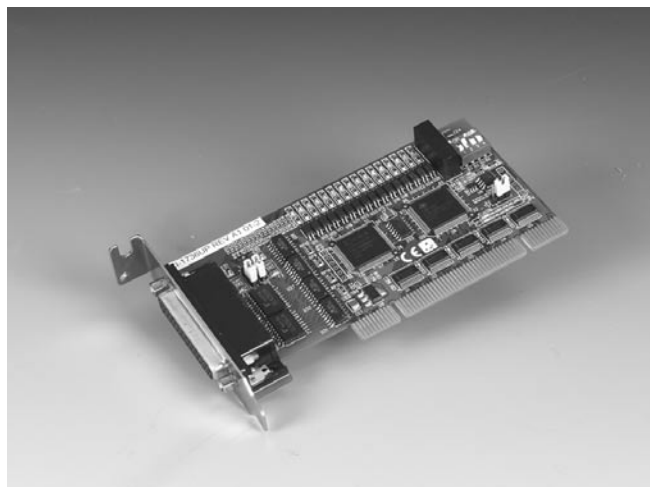# PCI-1736UP

32-ch Low-Profile Isolated Digital I/O Card

Features

- 32 isolated DI/O channels (16 inputs and 16 outputs)
- High output driving capacity
- High-voltage isolation on I/O channels (2500 VDC)
- Interrupt handling capability
- D-type connector for isolated input and output channels
- Keep digital output values when hot system reset
- Wide input range (5 ~ 30 V_{DC})
- Surge protection
- Universal PCI Bus
- Low profile card
- BoardID™ switch

Introduction

PCI-1736UP offer isolated digital input channels as well as isolated digital output channels with isolation protection up to 2,500 V_{DC}, which makes it ideal for industrial applications where high-voltage isolation is required. In addition, all output channels provide high-voltage protection. The low profile PCI form factor and universal PCI connector (V2.2 compliant) meet requirements for size and power consumption.

Specifications

Isolated Digital Input

- **Channels**   16
- **Input Voltage**   Logic 0: 2 V max.
                        Logic 1: 5 V min. (30 V max.)
- **Interrupt Capable Ch.**   2
- **Isolation Protection**   2500 V_{DC}
- **Opto-Isolator Response** 25 μs
- **Input Resistance**   2.8 KΩ

Isolated Digital Output

- **Channels**   16
- **Output Type**   Sink (NPN)
- **Isolation Protection**   2500 V_{DC}
- **Output Voltage**   5-40 V_{DC}
- **Sink Current**   200 mA max./channel
- **Opto-isolator Response** 25 μs

General

- **Bus Type**   Universal PCI V2.2
- **I/O Connectors**   DB-44 female
- **Dimensions**   119.91 x 64.41 mm (Low profile MD1)
- **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)
- **Storing Temperature**   -25 ~ 85° C (-4 ~ 185° F)
- **Storing Humidity**   5 ~ 95% RH, non-condensing

Ordering Information

- **PCI-1736UP**   32-channel low-profile isolated digital I/O card
- **PCL-10144-1**   DB 44-pin cable, 1m
- **ADAM-3944**   DB-44 Wiring Terminal for DIN-rail mounting

Applications

- Industrial on/off control
- Contact closure monitoring
- Switch status sensing
- BCD interfacing
- Digital input control
- Industrial and lab automation

Pin Assignments

ADVANTECH

All product specifications are subject to change without notice

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