Introduction

PCI-1730U, 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 DC, which makes them ideal for industrial applications where high-voltage isolation is required. There are also 32 TTL digital I/O channels on PCI-1730U.

Specifications

Digital Input (PCI-1730U only)
- Channels: 16
- 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 (PCI-1730U/ PCI-1733)
- Channels: 16, 32
- Input Voltage: Logic 0: 1 V max. (2 V max.)
  Logic 1: 5 V min. (30 V max.)
- Interrupt Capable Ch.: PCI-1730U: 2 (ID10, ID11)
  PCI-1733: 4 (ID10, ID11, ID16, ID17)
- Isolation Protection: 2,500 V DC
- Opto-Isolator Response: 100 us

Digital Output (PCI-1730U only)
- Channels: 16
- Compatibility: 5 V/TTL
- Output Voltage: Logic 0: 0.8 V max.
  Logic 1: 2.0 V min.
- Output Capability: Sink: 0.5 V max. @+24mA
  Source: 2.4 V min. @-15mA

Isolated Digital Output (PCI-1730U/ PCI-1734)
- Channels: 16, 32
- Output Type: Sink type (NPN)
- Isolation Protection: 2,500 V DC
- Output Voltage: 5 – 40 V DC
- Sink Current: PCI-1730U: 300 mA max./channel
  PCI-1734: 200 mA max./channel
- Opto-Isolator Response: 100 us

Features

- ISA-compatible with PCL-730/733/734
- 32-ch isolated DI/O (16-ch digital input, 16-ch digital output) (PCI-1730U only)
- 32-ch TTL DI/O (16-ch digital input, 16-ch digital output) (PCI-1730U only)
- High output driving capacity
- Interrupt handling capability
- 2 x 20-pin connectors for isolated DI/O channels (PCI-1730U only)
- 2 x 20-pin connectors for TTL DI/O channels (PCI-1730U only)
- D-type connector for isolated input and output channels
- High-voltage isolation on output channels

General

- Bus Type: PCI V2.2 (Universal PCI V2.2 for PCI-1730U)
- I/O Connectors: 1 x DB37 female connector
  4 x 20-pin box header (PCI-1730U 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 (-4 ~ 185°F)
- Storage Humidity: 5 ~ 95% RH, non-condensing

Ordering Information

- PCI-1730U: 32-ch Isolated Digital I/O Universal PCI Card
- PCI-1733: 32-ch Isolated Digital Input PCI Card
- PCI-1734: 32-ch Isolated Digital Output PCI Card

Accessories

- PCL-10120-1E: 20-pin Flat Cable, 1 m
- PCL-10120-2E: 20-pin Flat Cable, 2 m
- ADAM-3920: 20-pin DIN-rail Flat Cable Wiring Board
- PCLD-782: 16-ch Isolated DI Board w/ 1m 20-pin Flat Cable
- PCLD-885: 16-ch Power Relay Board w/ 20p & 50p Flat Cables
- PCLD-785: 16-ch Relay Board w/ One 20-pin Flat Cable
- ADAM-3937: DB37 DIN-rail Wiring Board
- PCL-10137-1E: DB37 Cable, 1 m
- PCL-10137-2E: DB37 Cable, 2 m
- PCL-10137-3E: DB37 Cable, 3 m