PCI-1760U

8-ch Relay and 8-ch Isolated Digital **Input Universal PCI Card with 8-ch Counter/Timer**



Features

- 8 opto-isolated digital input channels
- 8 relay actuator output channels
- 2 opto-isolated PWM outputs
- LED indicators to show activated relays
- Jumper selectable dry contact/wet contact input signals
- Up event counters for DI
- Programmable digital filter function for DI
- Pattern match interrupt function for DI
- "Change of state" interrupt function for DI •
- Universal PCI and BoardID switch

Introduction

PCI-1760U relay actuator and isolated digital input card is a PC add-on card for the PCI bus. It meets the PCI standard Rev. 2.2 (Universal PCI expansion card), and works with both 3.3 V and 5 V PCI slots. It provides 8 opto-isolated digital inputs with isolation protection of 2,500 V_{DC} for collecting digital inputs in noisy environments, 8 relay actuators that can be used as a on/off control devices or small power switches, and 2 isolated PWM (Pulse Width Modulation) outputs for custom applications.

For easy monitoring, each relay is equipped with one red LED to show its on/off status. Each isolated input supports both dry contact and wet contact so that it can easily interface with other devices when no voltage is present in the external circuit.

Specifications

Isolated Digital Input

- Channels
- Input Voltage Logic 0: 1.0 V max.
 - Logic 1: 4.5 V min. (12 V max.) Ch. 8 (IDI0 ~ IDI7)

8

16 bits

5 V/TTL

8

- Interrupt Capable
- Isolation Protection 2.500 V_{DC}
- Opto-Isolator Response 100 µs
- Input Resistance 2 k Ohm @ 1/4 W

Counter/Timer

- Channels
- Resolution
- . Compatibility
- Max. Input Frequency 500 Hz 2,500 V_{DC}
- Isolation Protection
- PWM Channels
- Digital Noise Filter

2 Min. effective high input period \geq [(2 ~ 65535) x 5 ms] + 5 ms Min. effective low input period $\geq [(2 \sim 65535) \times 5 \text{ ms}]$

+ 5 ms

Relay Output

- Channels
- Relay Type
- Contact Rating 1 A @ 125 VAC, 2 A @ 30 VDC

8

- Max. Switching Power 125 VA, 60 W
- Max. Switching Voltage 250 V_{AC}, 220 V_{DC} - Max. Switching Current 2 A
- Operate/Release Time max. 5 / 3.5 ms
- Resistance Contact: 50 mW max.
- Life Expectancy 3 x 105 cycles min.: 2 A @ 30 V_{DC}, 1 A @ 125 V_{AC} (Electrical)
 - $10^{\rm 6}$ cycles min.: 1 A @ 30 $V_{\text{DC}},\,0.5$ A @ 125 V_{AC}

2 x Form C. and 6 x Form A

General

Bus Type

Universal PCI V2.2

- 1 x DB37 female connector
- Dimensions (L x H)
- Power Consumption
- Storage Humidity
 - 5~95 % RH, non-condensing

Ordering Information

- DB37 Cable, 3 m
- PCL-10137-3E ADAM-3937
 - DB37 DIN-rail Wiring Board

AD\ANTECH **Data Acquisition Boards** PCI-1760U Accessories PCL-10137-1E PCL-10137-2E

DB37 Cable, 1 m DB37 Cable, 2 m

8-ch Relay/IDI PCI Card w/ 8-ch Counter/Timer

- I/O Connectors
 - 175 x 100 mm (6.9" x 3.9")
 - Typical: 5 V @ 450 mA Max.: 5 V @ 850 mA
- Operating Temperature 0 ~ 60°C (32 ~ 140°F)
- Storage Temperature -20 ~ 70°C (-4 ~ 158°F)