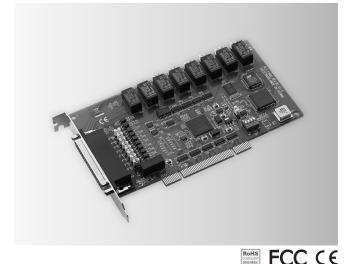
PCI-1760U

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



Features

- Universal PCI card, for 3.3 V and 5 V PCI slot
- 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.

8

8

16 bits

5 V/TTL

8 (Sink)

- Logic 1: 4.5 V min. (12 V max.)
- Interrupt Capable Ch. 8 (IDI0 ~ IDI7)

Isolation Protection 2,500 VDC

- Opto-Isolator Response 25 us
- Input Resistance $2 \text{ k}\Omega 1/4 \text{ W}$

Counter/Timer

- Channels
- Resolution
- Compatibility
- Max. Input Frequency 500 Hz
- Isolation Protection
- PWM Channels
- Digital Noise Filter
- $+5 \, ms$ Min. effective low input period \geq [(2 ~ 65535) x 5 ms]

Relay Output

- Channels
- Relay Type 2 x Form C, and 6 x Form A
- Contact Rating
- 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

- Life Expectancy (Electrical)

General

- Bus Type
- I/O Connectors
- Dimensions (L x H)
- Power Consumption
- - 5 ~ 95 % RH, non-condensing (IEC 68-2-3)

Ordering Information 8-ch Relay/IDI PCI Card w/ 10-ch Counter/Timer

- PCL-10137-2
- PCL-10137-3
- ADAM-3937
- DB37 Cable, 3 m

DB37 Cable, 1 m

- Max.: 5 V @ 850 mA

PCI-1760U

- Accessories
- PCL-10137-1
 - DB37 Cable, 2 m
 - - DB37 DIN-rail Wiring Board

Insulation: 100 M Ω min. @ 500 V_{DC} 3 x 105 cycles min.: 2 A @ 30 V_{DC}, 1 A @ 125 V_{AC} 106 cycles min.: 1 A @ 30 V_{DC}, 0.5 A @ 125 V_{AC}

Contact: 50 m Ω max.

- Universal PCI V2.2
- 1 x DB37 female connector 175 x 100 mm (6.9" x 3.9")
 - Typical: 5 V @ 450 mA

- -20 ~ 70° C (-4 ~ 158° F)
- Storage Temperature
 - Operating Temperature 0 ~ 60° C (32 ~ 140° F) (IEC 68 2 1, 2)
 - Storage Humidity

2,500 VDC 2 Min. effective high input period \geq [(2 ~ 65535) x 5 ms]

1 A @ 125 V_{AC}, 2 A @ 30 V_{DC}

- + 5 ms