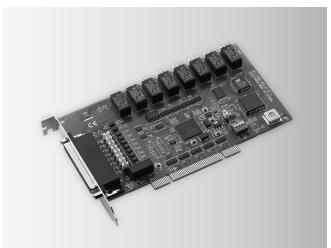
## PCI-1760U

# 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<sub>DC</sub> 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.)

Interrupt Capable Ch. 8 (IDIO ~ IDI7)
 Isolation Protection 2,500 V<sub>DC</sub>
 Opto-Isolator Response 100 µs

Input Resistance
 2 k Ohm @ 1/4 W

#### Counter/Timer

Channels 8
 Resolution 16 bits
 Compatibility 5 V/TTL
 Max. Input Frequency 1500 Hz
 Isolation Protection 2,500 V<sub>DC</sub>

PWM Channels2

**Digital Noise Filter** Min. effective high input period ≥ [(2 ~ 65535) x 5 ms]

+ 5 ms

Min. effective low input period  $\geq$  [(2 ~ 65535) x 5 ms]

+ 5 ms

#### **Relay Output**

Channels

Relay Type
 Contact Rating
 2 x Form C, and 6 x Form A
 1 A @ 125 V<sub>AC</sub>, 2 A @ 30 V<sub>DC</sub>

Max. Switching Power 125 VA, 60 W
 Max. Switching Voltage 250 V<sub>AC</sub>, 220 V<sub>DC</sub>
 Max. Switching Current 2 A

Operate/Release Time max. 5 / 3.5 ms
 Resistance Contact: 50 mW max.

 Life Expectancy (Electrical)
  $3 \times 10^5$  cycles min.:  $2 A @ 30 V_{DC}$ ,  $1 A @ 125 V_{AC}$  

 106 cycles min.:  $1 A @ 30 V_{DC}$ ,  $0.5 A @ 125 V_{AC}$ 

#### General

Bus Type Universal PCI V2.2
 I/O Connectors 1 x DB37 female connector
 Dimensions (L x H) 175 x 100 mm (6.9" x 3.9")
 Power Consumption 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)
 Storage Humidity 5 ~ 95 % RH, non-condensing

## **Ordering Information**

• PCI-1760U 8-ch Relay/IDI PCI Card w/ 8-ch Counter/Timer

#### **Accessories**

PCL-10137-1E DB37 Cable, 1 m
 PCL-10137-2E DB37 Cable, 2 m
 PCL-10137-3E DB37 Cable, 3 m

ADAM-3937 DB37 DIN-rail Wiring Board