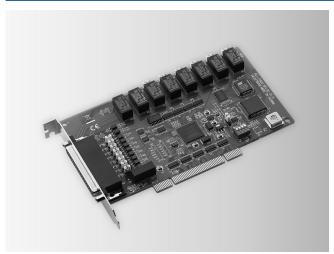
# PCI-1760U

# 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 Vpc for one-ing 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 Modulaton) utputs for custom applications.

For easy monitoring, each relay is equipped with one red LED to show its on/off status. Each is later in at 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 1solation Protection 2,500 V<sub>DC</sub>

PWM Channels

**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 x 10⁵ cycles min.: 2 A @ 30 V<sub>DC</sub>, 1 A @ 125 V<sub>AC</sub> (10⁵ cycles min.: 1 A @ 30 V<sub>DC</sub>, 0.5 A @ 125 V<sub>AC</sub>

#### 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