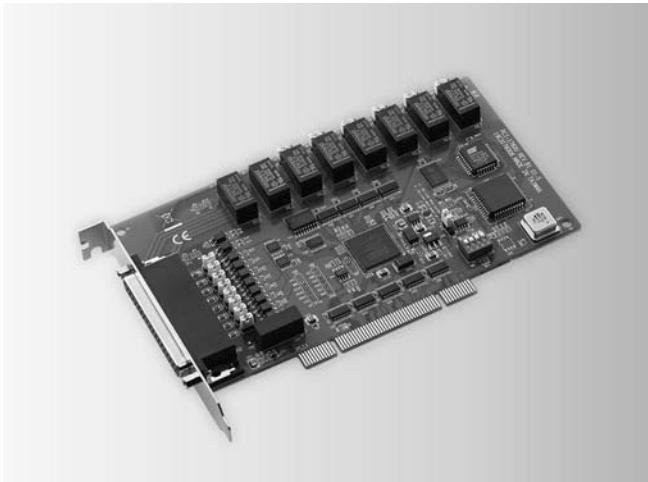


PCI-1760U

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



FCC CE

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	8
▪ 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 _{DC}
▪ 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	500 Hz
▪ Isolation Protection	2,500 V _{DC}
▪ PWM Channels	2
▪ Digital Noise Filter	Min. effective high input period $\geq [(2 \sim 65535) \times 5 \text{ ms}] + 5 \text{ ms}$ Min. effective low input period $\geq [(2 \sim 65535) \times 5 \text{ ms}] + 5 \text{ ms}$

Relay Output

▪ Channels	8
▪ Relay Type	2 x Form C, and 6 x Form A
▪ Contact Rating	1 A @ 125 V _{AC} , 2 A @ 30 V _{DC}
▪ 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 (Electrical)	3×10^6 cycles min.: 2 A @ 30 V _{DC} , 1 A @ 125 V _{AC} 10^6 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
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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