

PCI-7256

16-CH Latching Relay Outputs & 16-CH Isolated DI Card



Introduction

ADLINK's PCI-7256 is a 16-CH latching relay outputs and 16-CH isolated DI card. All relays are Form C type, which are suitable for device connection with ON/OFF control. With latching relays, the PCI-7256 has the advantage of power saving. The status of each latching relay output is represented by an onboard LED. When the relay is in SET condition, its corresponding LED will turn ON, and on the contrary, it is OFF. Latching relays also features unchanged status even when the system power is turned off, so that the PCI-7256 is suitable for critical applications which need to keep output status when fault conditions happen.

All digital input channels are non-polarity, optically isolated, and may be set to use RC filter or not. The PCI-7256 also features a change-of-state (COS) function that generates an interrupt when any digital input changes its state.

Features

- Supports a 32-bit 3.3 V or 5 V PCI bus
- 16-CH latching SPDT relays
- Latching relays
- Power saving on relay actuation
- Output status unchanged when power-off
- Onboard LED indicators for relay status
- Relay output status read back
- Onboard relay driving circuits
- Onboard connectors for external LED connection
- 16-CH isolated digital inputs
- 2500 VRMS optical isolation for digital inputs
- Change-of-state (COS) interrupt
- Onboard low-pass filtering for digital inputs
- Two external interrupt sources
- Onboard isolated +5 V power for dry contact inputs
- Compact, half-size PCB
- Board ID
- Operating Systems
 - Windows 7/Vista/XP/2000/2003 Server
 - Linux
- Recommended Software
 - AD-Logger
 - VB.NET/VC.NET/VB/VC++/BCB/Delphi
 - DAQBench
- Driver Support
 - DAQPilot for LabVIEW™
 - DAQ-MTLB for MATLAB®
 - PCIS-DASK for Windows
 - PCIS-DASK/X for Linux

Specifications

Relay Output

- Number of channels: 16
- Relay type: Latching SPDT (Form C), latching
- The output status will keep unchanged when power-off
- Isolation voltage: 1500 VRMS
- Contact rating
 - AC: 125 V @ 0.5 A
 - DC: 30 V @ 1 A
- Breakdown voltage: 1000 VRMS
- Contact resistance: 60 mΩ
- Relay ON/OFF time
 - Operate time: 3 ms
 - Release time: 3 ms
- LED indicators
 - Onboard LEDs for relay status
 - Onboard connectors for external LED connection
- Expected relay life:
 - >2x10⁵ operations @ 1 A, 30 Vdc
 - > 10⁵ operations @ 0.5 A, 125 VAC
- Data transfer: programmed I/O

Isolated Digital Input

- Number of channels: 16
- Maximum input range: 24 V, non-polarity
- Digital logic levels
 - 0-24 V, non-polarity
 - Input high voltage: 10-24 V
 - Input low voltage: 0-2 V
- Input resistance: 4.7 kΩ @ 0.5 W
- Isolation voltage: 2500 VRMS channel-to-system
- Interrupt sources: Change-of-state interrupt, digital input channel 0 and 1
- Data transfer: programmed I/O

Isolated Power Supply

- Output voltage: +5 V
- Output current: 170 mA max @ 40 °C

General Specifications

- I/O connector: 68-pin SCSI-II female
- Operating temperature: 0 °C to 60 °C
- Storage temperature: -20 °C to 80 °C
- Relative humidity: 5% to 95%, non-condensing
- Power requirements

| |
|--|
| +5 V |
| 340 mA typical |
| 980 mA max. (when all relays are activated simultaneously) |

- Dimensions (not including connectors)
- 175 mm x 107 mm

Terminal Boards & Cables

DIN-68S-01

Terminal Board with One 68-pin SCSI-II Connector and DIN-Rail Mounting (Cables are not included.)

ACL-10569-1

68-pin SCSI-II cable (mating with AMP-787082-7), 1 M

* For more information on mating cables, please refer to P2-61/62.

Ordering Information

■ PCI-7256

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Pin Assignment

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| | | | |
|--------|----|----|--------|
| ISO5V | 1 | 35 | ISOGND |
| DIO | 2 | 36 | DI1 |
| DI2 | 3 | 37 | DI3 |
| DI4 | 4 | 38 | DI5 |
| DI6 | 5 | 39 | DI7 |
| DICOM2 | 6 | 40 | DICOM1 |
| DI8 | 7 | 41 | DI9 |
| DI10 | 8 | 42 | DI11 |
| DI12 | 9 | 43 | DI13 |
| DI14 | 10 | 44 | DI15 |
| NC0 | 11 | 45 | NC8 |
| COM0 | 12 | 46 | COM8 |
| NO0 | 13 | 47 | NO8 |
| NC1 | 14 | 48 | NC9 |
| COM1 | 15 | 49 | COM9 |
| NO1 | 16 | 50 | NO9 |
| NC2 | 17 | 51 | NC10 |
| COM2 | 18 | 52 | COM10 |
| NO2 | 19 | 53 | NO10 |
| NC3 | 20 | 54 | NC11 |
| COM3 | 21 | 55 | COM11 |
| NO3 | 22 | 56 | NO11 |
| NC4 | 23 | 57 | NC12 |
| COM4 | 24 | 58 | COM12 |
| NO4 | 25 | 59 | NO12 |
| NC5 | 26 | 60 | NC13 |
| COM5 | 27 | 61 | COM13 |
| NO5 | 28 | 62 | NO13 |
| NC6 | 29 | 63 | NC14 |
| COM6 | 30 | 64 | COM14 |
| NO6 | 31 | 65 | NO14 |
| NC7 | 32 | 66 | NC15 |
| COM7 | 33 | 67 | COM15 |
| NO7 | 34 | 68 | NO15 |

Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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