

PCI-7260

8-CH High-Power Relay Outputs & 8-CH Isolated Digital Inputs Card



Introduction

ADLINK's PCI-7260 is the world's first PCI-bus, high-power relay output card for industrial automation and machine control. The design of PCI-7260 conforms to EN61010-1 safety standards. All eight channels are capable to switch 5 A current at 250 V_{AC} or 5 A current at 30 V_{DC}. Its pluggable front-panel connector gives consideration to both carrying high current and easy wiring. The PCI-7260 also provides eight isolated digital input channels with debouncer capability. Users may monitor the digital inputs by handling the hardware interrupt generated when DI status changes or DI CH0/CH1 transitions from low to high.

PCI-7260 also provides advanced features to make it feasible for industrial applications. The emergency shutdown input on the front panel lets users get back to a safety state set by a DIP switch regardless the system condition. A DIP switch sets the initial output status upon powering on, while a built-in watchdog timer guarantees that all the relays return to the safety state when the computer halts.

Features

- Supports a 32-bit 3.3 V or 5 V PCI bus
- 8-CH high power relay outputs
- 5 A at 250 V_{AC}
- 5 A at 30 V_{DC}
- 8-CH isolated digital inputs
- 8-CH relay status outputs
- 1-CH emergency shutdown input
- Pluggable connector for high current input
- Onboard LED indicators for relay status
- Initial and safety state setting by DIP switches
- Interrupt generated from
 - COS (Change-of-State) of DI
 - CH0/CH1 rising edge
- Built-in watchdog timer
- 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

- Release time: 10 ms max.
- LED indicators: onboard LEDs for relay status
- Expected relay life
 - > 10⁵ operations @ 5 A, 250 V_{AC}/30 V_{DC}
- Data transfer: programmed I/O

Isolated Digital Input

- Number of channels: 8
- Input current
 - Rated current: 10 mA
 - Max current: 50 mA, for isolated input.
- Input voltage: Up to 24 V_{DC}
 - Input high voltage: 10-24 V
 - Input low voltage: 0-2 V
- Input resistance: 4.7 K Ω @ 0.5 W
- Input mode: AC-filter/ Non-AC-filter
- Isolation voltage: 2,500 V_{RMS} channel-to-system
- Interrupt sources
 - Change-of-state (COS)
 - CH0/CH1 rising edge
- Data transfer: programmed I/O

Isolation +5 V Power Supply

- Output Voltage: +5 V
- Output Current: 170 mA max. (@ 40 °C)

Relay Status Output

- Number of channels: 8
- Driving capacity: 15 mA

General Specifications

- I/O connector
 - 18-pin pluggable terminal block connector
 - 20-pin ribbon male x2
- Operating temperature: 0 °C to 60 °C
- Storage temperature: -20 °C to 70 °C
- Relative humidity: 35% to 85%, non-condensing
- Power requirements

+5 V
510 mA typical
990 mA typical (when all relays are activated simultaneously)
- Dimensions (not including connectors)
175 mm x 107 mm

Certificate

- EMC/EMI: CE, FCC Class A
- Safety: EN61010: 2001

Ordering Information

■ PCI-7260

8-CH High-Power Relay Outputs & 8-CH Isolated Digital Inputs Card

■ ACL-10337 (for JP2/JP3)

Two 20-Pin Header to 37-Pin D-Sub PC Back Panel

Pin Assignment

CNI: Relay Output/ Emergency Shutdown Input

1	NO0
2	COM0
3	NO1
4	COM1
5	NO2
6	COM2
7	NO3
8	COM3
9	NO4
10	COM4
11	NO5
12	COM5
13	NO6
14	COM6
15	NO7
16	COM7
17	ESDN_SHDN+
18	ESDN_SHDN-

JP2: Digital Input

DI 0+	1	1	DI 0-
DI 1+	2	2	DI 1-
DI 2+	3	3	DI 2-
DI 3+	4	4	DI 3-
DI 4+	5	5	DI 4-
DI 5+	6	6	DI 5-
DI 6+	7	7	DI 6-
DI 7+	8	8	DI 7-
ISOGND	9	9	ISOGND
ISO5V	10	10	ISO5V

JP3: External LED

LED0-	1	1	LED0+
LED1-	2	2	LED1+
LED2-	3	3	LED2+
LED3-	4	4	LED3+
LED4-	5	5	LED4+
LED5-	6	6	LED5+
LED6-	7	7	LED6+
LED7-	8	8	LED7+
X	9	9	X
X	10	10	X

Specifications

Relay Output

- Number of channels: 8
- Relay type: Non-latching SPST-NO + SPST-NC (for output indicator)
- Contact rating
 - AC: 250 V @ 5 A
 - DC: 30 V @ 5 A
- Insulation resistance: 1000 M Ω min. (at 500 V_{DC})
- Breakdown voltage: 2000 V_{AC}, 50/60 Hz for 1 minute
- Contact resistance: 30 m Ω max
- Operate time: 10 ms max.

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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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