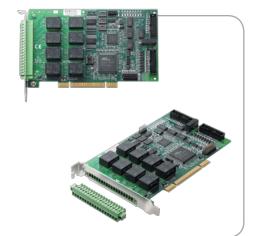


# 8-CH High-Power Relay Outputs & 8-CH Isolated Digital Inputs Card





#### 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 Vac or 5 A current at 30 VDC. 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<sub>AC</sub>
- 5 A at 30 Vpc
- 8-CH isolated digital inputs
- 8-CH relay status outputs
- I-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
- $\bullet \ VB.NET/VC.NET/VB/VC++/BCB/Delphi\\$
- DAOBench

#### Driver Support

- DAQPilot for LabVIEW $^{™}$
- DAQ-MTLB for MATLAB®
- PCIS-DASK for Windows
- PCIS-DASK/X for Linux

# **S**pecifications

#### 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:  $1000 \text{ M}\Omega$  min. (at 500 VDC)
- Breakdown voltage: 2000 VAC, 50/60 Hz for 1 minute
- $\blacksquare$  Contact resistance: 30 m $\Omega$  max
- Operate time: 10 ms max.

- Release time: 10 ms max.
- LED indicators: onboard LEDs for relay status
- Expected relay life
  - > 10<sup>5</sup> operations @ 5 A, 250 Vac/30 VDC
- 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 VDC
- Input high voltage: 10-24 V
- Input low voltage: 0-2 V
- $\blacksquare$  Input resistance: 4.7 K $\Omega$  @ 0.5 W
- Input mode: AC-filter/ Non-AC-filter
- Isolation voltage: 2,500 VRMs 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: I70 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** JP2: Digital Input Shutdown Input NO0 COM0 DI 2+ DI 2-NO1 COM1 DI 3+ DI 3-DI 4+ DI 4-NO2 DI 5+ COM2 DI 5-6 DI 6+ DI 6-NO3 DI 7+ DI 7-COM3 NO4 ISOGND ISOGND 9 10 ISO5V ISO5V COM4 NO5 11 JP3: External LED COM5 NO6 LED0+ LED0-COM6 14 LED1-LED1+ NO7 15 LED2+ LED2-COM7 LED3+ LED3-ESDN SHDN+ I FD4-I FD4+ ESDN\_SHDN-LED5-LED5+ LED6-LED6+ LED7-8 LED7+ 9 Х 10