

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





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 $\hbox{current at 250 VaC or 5 A current at 30 VDC. Its pluggable front-panel connector gives consideration to both carrying } \\$ 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 compute halts.

Features

- Supports a 32-bit 3.3 V or 5 V PCI bus
- 8-CH high power relay outputs
- 5 A at 250 Vac
- 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 Vista/XP/2000/2003
- Windows CE (call for availability)

■ Recommended Software

- AD-Logger
- VB.NET/VC.NET/VB/VC++/BCB/Delphi
- DAQBench

■ Driver Support

- DAQPilot for Windows
- DAQPilot for LabVIEW™
- DAQ-MTLB for MATLAB®
- PCIS-DASK for Windows
- PCIS-DASK/X for Linux

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 VDC)
- Breakdown voltage: 2000 VAC, 50/60 Hz for 1 minute
- Contact resistance: 30 mΩ max
- Operate time: 10 ms max.

- Release time: 10 ms max.
- LED indicators: onboard LEDs for relay status
- Expected relay life
 - $> 10^5$ 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
- Input resistance: 4.7 KΩ @ 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 +5V 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

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

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■ 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 DI 0+ NO0 COM0 DI 1-DI 2+ DI 2-NO1 DI 3+ DI 3-COM₁ NO2 DI /I DI 4-COM2 DI 5+ DI 5-DI 6-NO3 DI 7-DI 7+ COM3 ISOGND ISOGND NOA COM4 ISO5V ISO5V 10 10 NO5 11 JP3: External LED COM5 12 13 NO6 LED0-COM6 14 LED1-LED1+ NO7 15 LED2-LED2+ COM7 16 LED3-LED3+ ESDN SHDN+ LED4-LED4+ 18 ESDN_SHDN-LED5-LED5+ LED6-LED6+ LED7-LED7+ Х 10 10