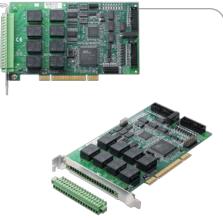
PCI-7260 8-CH High-Power Relay Outputs & 8-CH Isolated Digital Inputs Card



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 VDC
- 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
 - VB.NET/VC.NET/VB/VC++/BCB/Delphi
- DAOBench
- Driver Support
 - DAQPilot for LabVIEW[™]
 - DAO-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.

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.

- Release time: 10 ms max.
- LED indicators: onboard LEDs for relay status
- Expected relay life
- > 10⁵ 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 +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

+

- 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
- Updated 03-28, 2012. ©2012 ADLINK Technology, Inc. All Rights Reserved. All specifications are subject to change without further notice.

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	JP2	: Digi	tal In	put
	1	NO0	DI 0+	1	1	DI 0-
	2	COM0	DI 1+	2	2	DI 1-
	3	NO1	DI 2+	3	3	DI 2-
	4	COM1	DI 3+	4	4	DI 3-
	5	NO2	DI 4+	5	5	DI 4-
	6	COM2	DI 5+	6	6	DI 5-
	7	NO3	DI 6+	7	7	DI 6-
	8	COM3	DI 7+	8	8	DI 7-
	9	NO4	ISOGND	9	9	ISOGND
	10	COM4	ISO5V	10	10	ISO5V
	11	NO5 COM5 JP3: External LED				
	12					
	13	NO6	LED0-	1	1	LED0+
	14	COM6	LED1-	2	2	LED1+
	15	NO7	LED2-	3	3	LED2+
	16	COM7	LED3-	4	4	LED3+
	17	ESDN_SHDN+	LED4-	5	5	LED4+
	18	ESDN_SHDN-	LED5-	6	6	LED5+
		-	LED6-	7	7	LED6+
			LED7-	8	8	LED7+
			Х	9	9	х
			Х	10	10	х