PCI-7256 16-CH Latching Relay Outputs & 16-CH Isolated DI Card



Features

- Supports a 32-bit 3.3 V or 5 V PCI bus
- н. 16-CH latching SPDT relays
- Latching relays
- Power saving on relay actuation
- Output status unchanged when power-off н.
- Onboard LED indicators for relay status н.
- Relay output status read back н.
- Onboard relay driving circuits н.
- Onboard connectors for external LED connection .
- I6-CH isolated digital inputs
- 2500 VRMS optical isolation for digital inputs н.
- Change-of-state (COS) interrupt н.
- н. Onboard low-pass filtering for digital inputs
- Two external interrupt sources н.
- Onboard isolated +5 V power for dry contact inputs .
- Compact, half-size PCB н.
- Board ID н.

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

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.

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 @ I 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: I70 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

175 mm x 107 mm





Terminal Boards & Cables

- DIN-685-01
- 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), I M
- * For more information on mating cables, please refer to P2-61/62.

Ordering Information

PCI-7256

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

Pin Assignment

PCI-7256				
ISO5V	1		35	ISOGND
D10	2		36	DI1
DI2	3		37	DI3
DI4	4		38	DI5
D16	5		39	DI7
DICOM2	6		40	DICOM1
DI8	7		41	D19
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

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