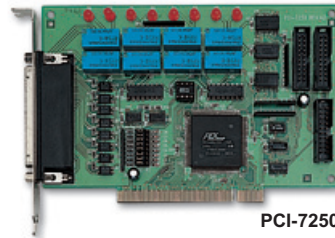


PCI-7250/7251, LPCI-7250

8-CH Relay Outputs & 8-CH Isolated DI Cards / Low Profile PCI Card

Features

- Support a 32-bit 5V PCI bus (PCI-7250/7250)
 - Support a 32-bit 3.3V or 5V PCI bus (LPCI-7250)
 - 4-CH SPDT & 4-CH SPST relays (PCI-7250)
 - 8-CH SPDT & 8-CH SPST relays (PCI-7250 + 1 x PCI-7251)
 - 12-CH SPDT & 12-CH SPST relays (PCI-7250 + 2 x PCI-7251)
 - 16-CH SPDT & 16-CH SPST relays (PCI-7250 + 3 x PCI-7251)
 - 8-CH SPDT (LPCI-7250)
 - Nonlatching relays
 - On-board LED indicators for relay status
 - On-board relay driving circuits
 - Relay output status read back
 - 8-CH isolated digital inputs (PCI-7250/LPCI-7250)
 - 16-CH isolated digital inputs (PCI-7250 + 1 x PCI-7251)
 - 24-CH isolated digital inputs (PCI-7250 + 2 x PCI-7251)
 - 32-CH isolated digital inputs (PCI-7250 + 3 x PCI-7251)
 - On-board low-pass filtering for digital inputs
 - Compact, half size PCB (PCI-7250/7251)
 - Compact, low-profile PCI size PCB (LPCI-7250)
- **Operating Systems**
 - Windows 98/NT/2000/XP/2003
 - Linux
 - DOS
 - Windows CE (call for availability)
 - **Recommended Software**
 - VB/VC++/BCB/Delphi
 - DAQBench
 - **Driver Support**
 - DAQ-LVIEW PnP for LabVIEW
 - DAQ-MTLB for MATLAB
 - DAQBOY for Windows
 - PCIS-DASK for Windows
 - PCIS-DASK/X for Linux



PCI-7250



PCI-7251



LPCI-7250

Introduction

ADLINK PCI-7250/7251 provides 4-CH SPDT (Form C) & 4-CH SPST (Form A) relay outputs and 8-CH isolated digital inputs. The LPCI-7250 provides 8-CH SPDT (Form C) relay outputs and 8-CH isolated digital inputs. The status of each relay output is represented by an on-board LED. When the relay is in SET condition, its corresponding LED will turn ON, and on the contrary, it is OFF. All of the digital input channels are non-polarity and optically isolated. You can set for each digital input by using RC filter or not. The devices are suitable for collecting digital inputs in noisy environments.

The PCI-7251 is an 8-CH relay outputs and 8-CH isolated DI extension card of the PCI-7250. All the I/O functions of PCI-7251 are the same as those of the PCI-7250. The PCI-7251 has to be connected with PCI-7250 and the bus interface is controlled by the PCI-7250. Up to 3 PCI-7251 cards can be connected to one PCI-7250, therefore, expanding the PCI-7250's DIO from 8 DIO to at most 32 DIO.

Specifications

Relay Output

- Number of channels: 8
- Relay types
 - PCI-7250/7251:
 - Channel 0-3: SPDT (normal open)
 - Channel 4-7: SPST (normal open)
 - LPCI-7250:
 - Channel 0-7: SPDT (normal open)
- Contact rating
 - PCI-7250/7251
 - AC: 120 V @ 0.5 A
 - DC: 24 V @ 1 A
 - LPCI-7250
 - DC: 30 V @ 2 A
- Breakdown voltage: 1000 V_{RMS}
- Contact resistance: 100 mΩ
- Relay ON/OFF time
 - Operate time: 8 ms
 - Release time: 8 ms
- LED indicators: on-board LEDs for relay status
- Expected life
 - PCI-7250/7251:
 - >5x10⁵ operations @ 1 A, 24 V_{dc}
 - >2x10⁵ operations @ 0.5 A, 120 V_{AC}
 - LPCI-7250:
 - >10⁵ operations @ 2 A, 30 V_{dc}
 - >5x10⁵ operations @ 1 A, 30 V_{dc}
- Data transfers: programmed I/O

- Isolation voltage: 5000 V_{RMS}
- Data transfers: programmed I/O

General Specifications

- I/O connector
 - PCI-7250/7251
 - 37-pin D-sub female
 - LPCI-7250
 - 50-pin SCSI-II female
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing
- Power requirements

Device	+5 V
PCI-7250	140 mA typical
PCI-7251	125 mA typical
LPCI-7250	200 mA typical

- Dimensions (not including connectors)
 - 162 mm x 107 mm (PCI-7250)
 - 141 mm x 102 mm (PCI-7251)
 - 120 mm x 65 mm (LPCI-7250)

Termination Boards

PCI-7250/7251:

- **DIN-37D**
 - Termination Board with a 37-pin D-sub Connector and DIN-Rail Mounting (Including One 1-meter ACL-10137 Cable)

■ ACLD-9137

- General-Purpose Termination Board with a 37-pin D-sub Male Connector

LPCI-7250:

- **DIN-50S**
 - Termination Board with a 50-pin SCSI-II Connector and DIN-Rail Mounting (Including One 1-meter ACL-10250 Cable)

Pin Assignment

PCI-7250			LPCI-7250						
NO0	1	20	NO3	1	26	NO4	1	26	
COM0	2	21	COM3	2	27	COM4	2	27	
NC0	3	22	NC3	3	28	NC4	3	28	
NO1	4	23	NO4	4	29	NO5	4	29	
COM1	5	24	COM4	5	30	COM5	5	30	
NC1	6	25	NO5	6	31	NC5	6	31	
NO2	7	26	COM5	7	32	NO6	7	32	
COM2	8	27	NO6	8	33	COM6	8	33	
NC2	9	28	COM6	9	34	NC6	9	34	
NO7	10	29	N/C	NO3	10	35	NO7	10	35
COM7	11	30	DI0_H	COM3	11	36	COM7	11	36
DI0_L	12	31	DI1_H	NC3	12	37	NC7	12	37
DI1_L	13	32	DI2_H	N/C	13	38	N/C	13	38
DI2_L	14	33	DI3_H	N/C	14	39	N/C	14	39
DI3_L	15	34	DI4_H	N/C	15	40	N/C	15	40
DI4_L	16	35	DI5_H	N/C	16	41	N/C	16	41
DI5_L	17	36	DI6_H	N/C	17	42	N/C	17	42
DI6_L	18	37	DI7_H	IDI_0H	18	43	IDI_0L	18	43
DI7_L	19			IDI_1H	19	44	IDI_1L	19	44
				IDI_2H	20	45	IDI_2L	20	45
				IDI_3H	21	46	IDI_3L	21	46
				IDI_4H	22	47	IDI_4L	22	47
				IDI_5H	23	48	IDI_5L	23	48
				IDI_6H	24	49	IDI_6L	24	49
				IDI_7H	25	50	IDI_7L	25	50

Ordering Information

- **PCI-7250**
 - 8-CH Relay Outputs & 8-CH Isolated DI Card
- **PCI-7251**
 - 8-CH Relay Outputs & 8-CH Isolated DI Extension Card for PCI-7250
- **LPCI-7250**
 - 8-CH Relay Outputs & 8-CH Isolated DI Low-Profile PCI Card

- 1 Software Solutions
- 2 PXI/ CompactPCI Platforms
- 3 PXI-Based Instruments
- 4 PXI/ CompactPCI Modules
- 5 PCI DAQ Cards
- 6 PCI DIO Cards
- 7 PC/ 104-Plus Products
- 8 ISA DAS/ DIO Cards
- 9 Wiring Termination Boards
- 10 Motion Vision & COM
- 11 Remote I/O Modules
- 12 Industrial Computers