# ACL-7125

## 8-CH Relay Outputs & 8-CH Isolated DI Card

#### **Features**

- PC AT bus
- 4-CH SPDT (Form C) and 4-CH SPST (Form A) relays

  Nonlatching relays
- On-board LED indicators for relay status
- On-board relay driving circuits
- Relay output status read back
- 8-CH isolated digital inputs
- On-board low-pass filtering for digital inputs
- Register compatible with ACL-725/PCL-725
- Operating Systems
- · Windows 2000/NT/XP/9x

#### ■ Recommended Software

- VB/VC++/BCB/Delphi
- Turbo C/Borland C
- Driver Support
- · ACLS-LVIEW
- ACLS-DLL/DLL2
- · DOS library



#### Introduction

ADLINK ACL-7125 provides 8-CH relay outputs and 8-CH isolated digital inputs. Four of the relays are SPDT (Form C) and four are SPST (Form A), which are suitable for device connection with ON/OFF control. The status of each relay output is represented by an on-board LED. When the relay is energized, its corresponding LED will turn ON, otherwise it is OFF. All of the digital input channels are non-polarity and optically isolated. Users can set for each digital input by using RC filter or not. The device is suitable for collecting digital inputs in noisy environments.

#### **Specifications**

#### **Relay Output**

- Number of channels: 8
- Relay types
- Channel 0-3: SPDT (Form C)
- · Channel 4-7: SPST (Form A)
- Contact rating
- AC: 120 V @ 0.5 A
- DC: 24 V @ 1 A
- Breakdown voltage: 1000 VRMs
- Contact resistance: 100 mΩ
- Relay ON/OFF time
- · Operate time: 5 ms
- Release time: 5 ms
- LED indicators: on-board LEDs for relay status
- Expected life
- >5x10<sup>5</sup> operations @ 1 A, 24 VDC
- >2x10<sup>5</sup> operations @ 0.5 A, 120 Vac
- Data transfer: programmed I/O

#### **Isolated Digital Input**

- Number of channels: 8
- Maximum input range: 24 V, non-polarity
- Digital logic levels
- 0-24 V, non-polarity
- Input high voltage: 5-24 V
- Input low voltage: 0-1.5 V ■Input resistance: 1.2 kΩ @ 0.5 W
- Isolation voltage: 1000 VRMs
- Data transfers: programmed I/O

#### **General Specifications**

- ■I/O connector: 37-pin D-sub female ■ Operating temperature: 0 to 55 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing
- Power requirements

+5 V	+12 V	
130 mA typical	180 mA	
	When all relays are actived simultaneously	

■ Dimensions (not including connectors) 148 mm x 107 mm

#### **Termination Boards**

#### ■ 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

General-Purpose Termination Board with a 37-pin D-sub Connector (Including One 1-meter ACL-10237 Cable)

### Pin Assignment

NO0	1	20	NO3			
COM0	2	21	COM3			
NC0	3	22	NC3			
NO1	4	23	NO4			
COM1	5	24	COM4			
NC1	6	25	NO5			
NO2	7	26	COM5			
COM2	8	27	NO6			
NC2	9	28	COM6			
NO7	10	29	N/C			
COM7	11	30	DICOM0			
DI0	12	31	DICOM1			
DI1	13	32	DICOM2			
DI2	14	33	DICOM3			
DI3	15	34	DICOM4			
DI4	16	35	DICOM5			
DI5	17	36	DICOM6			
DI6	18	37	DICOM7			
DI7	19					

#### **Ordering Information**

■ ACL-7125 8-CH Relay Outputs & 8-CH Isolated DI Card



