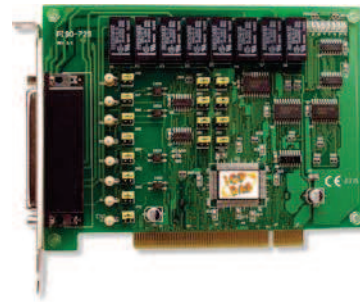


# PISO-725

PCI Bus, 8-ch isolated digital input and 8-ch relay output Board



## Features

- PCI Bus (5 V) interface
- 8-ch isolated digital input
- 8-ch electromechanical relay output (Form C x4, Form A x4)
- Jumper selectable isolated or non-isolated digital inputs
- State-changed interrupt for all digital inputs
- 3750 Vrms photo-isolation protection
- Supports relay output status read back
- Onboard relay output status LED indicators
- Support Plug & Play to obtain I/O resources
- No more manually setting of I/O address and IRQ

## Introduction

The PISO-725 card supports 5 V PCI bus. These cards provide 8 electromechanical relay output channels and 8 isolated/non-isolated digital input channels. The digital inputs can be set to either isolated or non-isolated via a hardware jumper. Each of the digital inputs will generate an interrupt signal if the state is changed, which is very useful when monitoring for contact closures/openings as it is not necessary to continuously poll the inputs. The isolated DI channels use a short optical transmission path to transfer an electronic signal between elements of a circuit and keep them electrically isolated. With 3750 Vrms isolation protection, these DI channels allow the input signals to be completely floated so as to prevent ground loops and isolate the host computer from damaging voltages. Relays are used where it is necessary to control a circuit using a low-power signal (with complete electrical isolation between the control and controlled circuits), or where several circuits must be controlled by one signal. All relays are de-energized (off) while powering-on, and support On/Off status read back. The PISO-725 can be used in various applications, including contact closure, external voltage sensing, load sensing and I/O control.

## Software

- DOS Lib and TC/BC/MSC sample program (with source codes)
- VB/VC/Delphi/BCB/VB.NET/C#.NET/VC.NET/MATLAB sample programs with source codes
- DLL and OCX SDK for 32-bit/64-bit Windows XP/2003/Vista/2008/7/8
- Support LabVIEW and Linux

## Hardware Specifications

Digital Input	
Isolation Voltage	3750 Vrms
Channels	8
Input Logic Low	0~1 V
Input Logic High	9~24 V
Input Impedance	1.2 KΩ, 1 W
Relay Output	
Channels	8
Relay Type	DPDT (Form C)
Contact Rating	AC: 120 V @ 0.3 A DC: 30 V @ 1 A
Operate Time	5 ms (Typical)
Release Time	10 ms (Typical)
Insulation Resistance	1000 MΩ
Life	Mechanical: 100,000 ops. (30 V/1 A)
General	
Bus Type	5 V PCI, 32-bit, 33 MHz
Connectors	Female DB-37 x1
Power Consumption	300 mA @ +5 V
Operating Temperature	0 °C ~ +60 °C
Storage Temperature	-20 °C ~ +70 °C
Humidity	5 ~ 85% RH, non-condensing

## Pin Assignments

Pin Assignment	Terminal No.	Pin Assignment
NO_0	01	20 NO_3
COM_0	02	21 COM_3
NC_0	03	22 NC_3
NO_1	04	23 NO_4
COM_1	05	24 COM_4
NC_1	06	25 NO_5
NO_2	07	26 COM_5
COM_2	08	27 NO_6
NC_2	09	28 COM_6
NO_7	10	29 GND
COM_7	11	30 DIB_0
DIA_0	12	31 DIB_1
DIA_1	13	32 DIB_2
DIA_2	14	33 DIB_3
DIA_3	15	34 DIB_4
DIA_4	16	35 DIB_5
DIA_5	17	36 DIB_6
DIA_6	18	37 DIB_7
DIA_7	19	

CON1

## Ordering Information

PISO-725	PCI Bus, 8-ch isolated digital input and 8-ch relay output board. Includes one CA-4002 D-Sub connector.
----------	---