



Universal PCI, 8-ch Relay Output and 8-ch Isolated Digital Input Board

■ Introduction

The PISO-P725U is a Universal PCI card supporting both the 3.3 V and 5 V PCI bus, and provides 8 isolated or non-isolated Digital Input channels and 8 electromechanical Relay Output channels.

The DI channels can be set to either isolated or non-isolated via a hardware jumper, and each channel will generate an interrupt signal if the state is changed, which is very useful when monitoring contact openings/closures 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, the DI channels allow the input signals to be completely floated so as to prevent ground loops and isolate the host computer from potentially damaging voltage spikes.

The Relay Output channels are used where it is necessary to control a circuit using a low-power signal, with complete electrical isolation between the control and the controlled circuits, or where several circuits must be controlled by a single signal. All relays are de-energized (switched off) during power-on, and support ON/OFF status read back.

The PISO-725 can be used in a variety of applications, including contact closure, external voltage sensing, load sensing and I/O control, etc.

Pin Assignments

Pin Assignment	Terminal	Q	No.	Pin Assignment
NO_0	01		20	CM_0
NO_1	02		-	_
NO_2	03	•	21	CM_1
NO_3	04	•	22	CM_2
NO_4	05		23	CM_3
NO_5	06		24	CM_4
NO_6	07		25	CM_5
NO_7	08		26	CM_6
N/A	09		27	CM_7
·	10		28	N/A
N/A	-		29	N/A/GND
N/A	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	_
DIA_6	18			DIB_6
DIA_7	19		37	DIB_7
				CON1

■ Features
■ Universal PCI (3.3 V/5 V) Interface
8-channel Electromechanical Relay Output
☐ Supports Status Readback
Onboard Status LED Indicators
■ 8-channel Optically-isolated Digital Input
☐ 3750 Vrms Photo-isolation Protection
☐ State-changed Interrupt for all Digital Inputs
☐ Jumper-selectable Isolated or Non-isolated Digital Inputs
CE FC ROHS

Software

Drivers 32/64-bit Windows XP/2003/2008/7/8/10 ✓ Linux ✓ DASYLab Sample Programs ✓ DOS Lib and TC/BC/MSC Demo ✓ LabVIEW Toolkit ✓ VB/VC/Delphi/BCB/VB.NET/C#.NET/WATLAB Demo

■ Hardware Specifications

Hardware			
Connector	Female DB37 x 1		
Digital Input			
Channels	8		
Туре	Photocoupler (Sink)		
Response Speed	4 kHz (Typical)		
Trigger Mode	Static Update		
Wet Contact, ON Voltage Level	9 ~ 24 V		
Wet Contact, OFF Voltage Level	0 ~ 1 V		
Isolation	3750 Vrms (Using external power)		
Digital Output			
Channels	8		
Туре	Form C		
Contact Rating	AC: 0.3 A/120 V DC: 1 A/30 V		
Operate Time	5 ms (Typical)		
Release Time	10 ms (Typical)		
PC Bus			
Туре	3.3 V/5 V Universal PCI, 32-bit, 33 MHz		
Data Bus	8-bit		
Power			
Consumption	300 mA @ +5 V		
Mechanical			
Dimensions (mm)	110 x 150 x 22 (W x L x D)		
Environmental			
Operating Temperature	0 ~ +60°C		
Storage Temperature	-20 ~ +70°C		
Humidity	5 ~ 85% RH, Non-condensing		

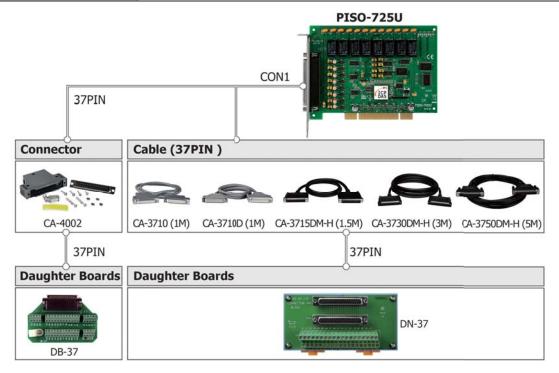
Ordering Information

	Universal PCI, 8-ch Relay Output and 8-ch Isolated
PISO-725U CR	Digital Input Board (RoHS)
	Includes one CA-4002 D-Sub connector

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Accessories

0	CA-3710 CR	DB-37 Male-Male D-sub cable 1 M (Cable for Daughter Board (45°)) (RoHS)
	CA-3710D CR	DB-37 Male-Male D-sub cable 1 M (Cable for Daughter Board (180°)) (RoHS)
4	CA-3715DM-H CR	DB-37 Male-Male Cable, 1.5 M, 180° (RoHS)
2	CA-3730DM-H CR	DB-37 Male-Male Cable, 3.0 M, 180° (RoHS)
S	CA-3750DM CR	DB-37 Male-Male Cable, 5.0 M, 180° (RoHS)
0	CA-3750DM-H CR	DB-37 Male-Male Cable, 5.0 M, 180° (RoHS)
1	CA-4002 CR	37-pin Male D-sub connector with plastic cover (RoHS)
	DB-37 CR	Directly connect signal to D-sub 37-pin connector (RoHS)
	DN-37 CR	DIN Rail Mounting 37-pin Connector (RoHS)



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