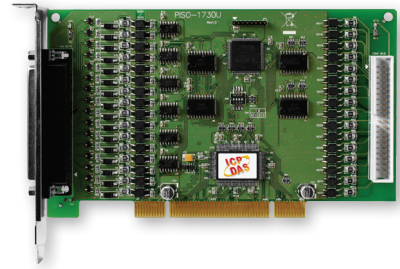


PISO-1730U

Universal PCI, 32-ch Optically Isolated DI and 32-ch Optically Isolated Open Collector Output Board (Sink, NPN)



Features

- Universal PCI (3.3 V/5 V) interface, Plug & Play
- 32-ch optically isolated digital input
- 32-ch optically isolated digital output (current sinking, NPN type)
- Supports Card ID function (SMD switch)
- Built-in DC/DC converter with 3000 V_{DC} isolation
- 3750 V_{rms} photo-isolation protection
- Four isolated bank

Introduction

The PISO-1730U has 32 channels of optically isolated digital inputs and 32 channels of optically isolated digital outputs, arranged into four isolated banks. Each input channel uses a photo-coupler input. Each digital output offers a Darlington transistor. The power supply of the output port and input port should use the external power. The board eliminates ground-loop problems and isolates the host computer from damaging voltages.

The PISO-1730U provides a Card ID switch. Users can set Card ID on a board and recognize the board by the ID via software when using two or more PIO-1730U cards in one computer

Software

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

Hardware Specifications

Digital Input	
Isolation Voltage	3750 V _{rms} (Using external power)
Channels	32-ch
Compatibility	Sink or Source, Photo-coupler isolated channel with common power or ground
Input Voltage	Logic 0: 0 ~ 1 V; Logic 1: 9 ~ 24 V
Inut Impedance	3 KΩ, 0.5 W
Response Speed	4 kHz (Typical)
Digital Output	
Isolation Voltage	3750 V _{rms}
Channels	32-ch
Compatibility	Sink, Open Collector
Output Capability	100 mA/+30 V for one channel @ 100% duty
Response Speed	4 kHz (Typical)
General	
Bus Type	3.3 V/5 V Universal PCI, 32-bit, 33 MHz
Card ID	Yes (4-bit)
Connectors	Female DB-37 x 1,40-pin box header x 1
Power Consumption	600 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	Pin Assignment	Terminal No.	Pin Assignment
IDO_0	01	20	IDO_1	02	IDI_1
IDO_2	02	21	IDO_3	03	IDI_3
IDO_4	03	22	IDO_5	04	IDI_5
IDO_6	04	23	IDO_7	05	IDI_7
PCOM	05	24	IDO_8	06	IDI_8
IDO_9	06	25	IDO_10	07	IDI_10
IDO_11	07	26	IDO_12	08	IDI_12
IDO_13	08	27	IDO_14	09	IDI_14
IDO_15	09	28	PCOM	10	PCOM
IDO_16	10	29	IDO_17	11	IDI_17
IDO_18	11	30	IDO_19	12	IDI_19
IDO_20	12	31	IDO_21	13	IDI_21
IDO_22	13	32	IDO_23	14	IDI_23
PCOM	14	33	IDO_24	15	IDI_24
IDO_25	15	34	IDO_26	16	IDI_26
IDO_27	16	35	IDO_28	17	IDI_28
IDO_29	17	36	IDO_30	18	IDI_30
IDO_31	18	37	PCOM	19	IDI_31
EGND	19			20	PCOM
				21	IDI_18
				22	IDI_20
				23	IDI_22
				24	IDI_25
				25	IDI_27
				26	IDI_29
				27	IDI_31
				28	IDI_29
				29	IDI_31
				30	EGND
				31	N/A
				32	N/A
				33	N/A
				34	N/A
				35	N/A
				36	N/A
				37	N/A
				38	N/A
				39	N/A
				40	N/A

Ordering Information

PISO-1730U CR	Universal PCI, 32-ch Optically Isolated Digital Input and 32-ch Optically Isolated Digital Open-collector Output Board (Sink, NPN) (RoHs) Includes one CA-4037B cable and two CA-4002 D-Sub connectors
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