

# I/O Cards

## PISO-P32S32WU

Universal PCI, 32-ch Optically Isolated D/I and 32-ch Optically Isolated Open Collector Output Board (Sink, NPN, 8-ch for high driving)



### Features ▶▶▶▶

- Universal PCI (3.3 V/5 V) interface
- 32-ch optically isolated digital input
- 3750 Vdc isolation voltage
- Input range up to 30 Vdc
- Card ID function
- 32-ch optically isolated open collector output
  - 500 mA (8-ch) high driving
  - 100 mA (24-ch)
  - Current Sinking (NPN)
- DIO response time is about 250 us (4 kHz max.)

### Introduction

PISO-P32S32WU has 32 channels of optical-isolated DI and 32 channels of optical-isolated open-collector output board (8-channel for 500 mA and 24-channel for 100 mA current sinking output, NPN), arranged into four isolated banks. Each input channel use a photo-coupler to isolate the card and computer from external signal. Each digital output offers a NPN transistor and integral suppression diode for inductive load. PISO-P32S32WU requires external power to drive the D/I and D/O ports and supports Card ID (jumper) features for multi-board identification and supports both 5 V and 3.3 V PCI slot.

This interface board is easily installed in any PC. The board interface to field logic signals, eliminating ground-loop problems and isolating the host computer from damaging voltages. PISO-P32S32WU has one 37-pin D-Sub connector and one 40-pin male header. The 40-pin to DB-37 flat cable is used to fix with the case. The user can connect the digital signal through the second D-Sub connector. Each D-Sub connector contains 16 input channels and 16 output channels.

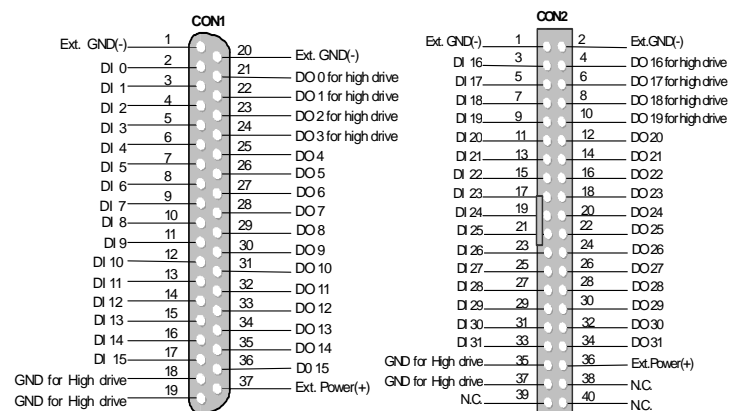
### Software

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

### Hardware Specifications

Digital Input	
Isolation Voltage	3750 Vrms
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
Response Speed	4 kHz (Typical)
Digital Output	
Isolation Voltage	3750 Vrms
Channels	32-ch
Compatibility	Sink, Open Collector
Output Capability	500 mA for one high driving channel @ 100% duty 500 mA for all high driving channels @ 100% duty 100 mA for one low driving channel @ 100% duty 100 mA for all low driving channels @ 100% duty
Response Speed	4 kHz (Typical)
General	
Bus Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, Plug and Play
Connectors	Female DB-37 x1 40-pin box header x1
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



### Ordering Information

PISO-P32S32WU CR

Universal PCI, 32-ch optically isolated D/I and 32-ch optically isolated open collector output Board (8-ch for 500 mA and 24-ch for 100 mA Current sinking output, NPN, RoHS). Includes one CA-4037W cable and two CA-4002 D-Sub connectors.