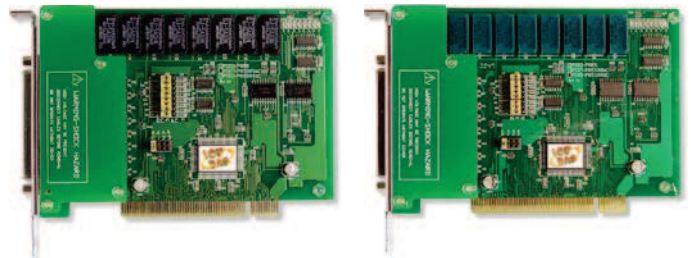


# PISO-P8SSR8AC PISO-P8SSR8DC

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



## Features >>>

- PCI Bus (5 V) interface
- 8-ch optically isolated digital input
- 8-ch SSR output
- 3750 Vrms photo-isolation protection
- Selectable DC signal input filter
- AC signal input with filter
- Decreased electrical noise during relay switching
- Supports Plug & Play to obtain I/O resources
- No more manually setting of I/O address and IRQ

## Introduction

The PISO-P8SSR8AC/P8SSR8DC card supports 5 V PCI bus. These cards provide 8 optically isolated DI channels and 8 solid-state relay output channels. The DI channels provide 3750 Vrms isolation protection, allowing 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. Solid-state relays (SSR) control power circuits using a semiconductor device instead of moving parts to perform switching. The advantages of SSR include long-term reliability, no contact bounce, no sparking, silent operation, decreased electrical noise when switching, and faster switching than electromechanical relays. These cards can be used in various applications, such as controlling the ON/OFF state of external devices, driving external relays or small power switches, activating alarms, contact closure, sensing external voltages or switches, etc.

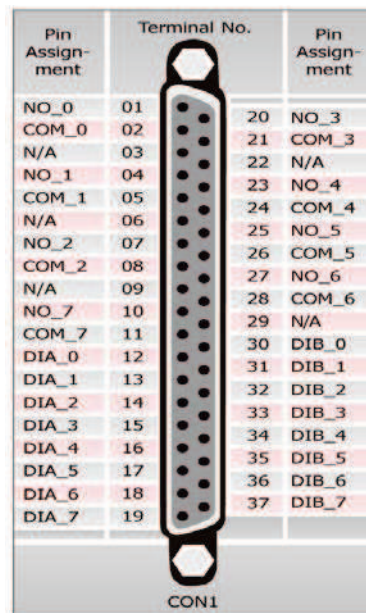
## Software

- 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

Models	PISO-P8SSR8UAC	PISO-P8SSR8UDC
<b>Digital Input</b>		
Isolation Voltage	5000 Vrms	
Channels	8	
Input Logic Low	0~1 V	
Input Logic High	5~24 V (AC 50 ~ 1 kHz)	
Input Impedance	1.2 KΩ, 1 W	
<b>Relay Output</b>		
Channels	8	
Relay Type	SPST N.O. (Form A)	
Contact Rating	AC: 24~265 V	DC: 3~30 V
Operate Time	1 ms (Typical)	
Release Time	0.5 cycle + 1 ms (Typical)	1 ms (Typical)
Insulation Resistance	1000 MΩ	
Life	Mechanical: 2,000,000 ops. Electrical: 100,000 ops.	
<b>General</b>		
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



## Ordering Information

PISO-P8SSR8AC CR	PCI Bus, 8-ch isolated AC type SSR output and 8-ch isolated digital input board. (RoHs) Includes one CA-4002 D-Sub connector.
PISO-P8SSR8DC CR	PCI Bus, 8-ch isolated DC type SSR output and 8-ch isolated digital input board. (RoHs) Includes one CA-4002 D-Sub connector.