

I/O Cards

PISO-P16R16U

Universal PCI, 16-ch Isolated D/I and
16-ch Relay Output Board



Features ▶▶▶

- Universal PCI (3.3 V/5 V) interface
- 16 optically isolated D/I channels
- 16 relay output channels
- Drop-in replacement for the PISO-P16R16
- Selectable DC signal input filter
- AC Signal input with filter
- Card ID function

Introduction

The PISO-P16R16U is a universal PCI card supporting both the 5 V and 3.3 V PCI bus. Each contain 16 photo coupler digital inputs that provide 3750 Vrms isolation protection, allowing the input signals to be completely floated so as to prevent ground loops. They are also equipped with 16 relay output channels to enable the control of the ON/OFF state of external devices, drive external relays or small power switches, or activate alarms, etc. The PISO-P16R16U is fully compatible with the PISO-P16R16, and users can easily replace the PISO-P16R16 with the PISO-P16R16U without any need for software/driver modification.

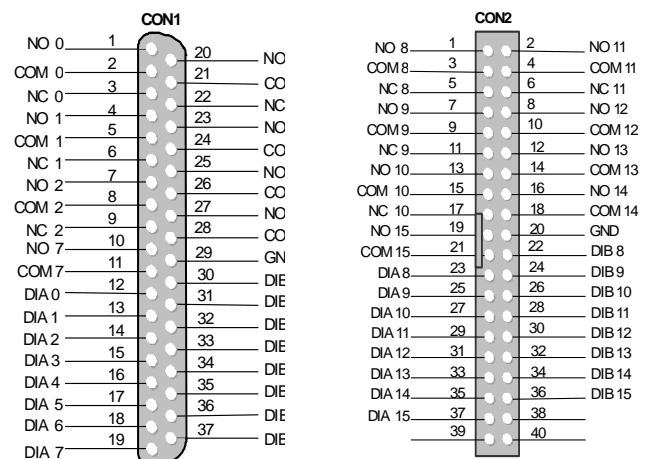
Software

- 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	16-ch
Input Voltage	Logic 1: AC/DC 5~24 V (AC 50~1 kHz), Logic0: AC/Dc 0~1 V
Response Speed	Without Filter: 50 kHz (Typical) With Filter: 0.455 kHz (Typical)
Relay Output	
Channels	16-ch
Relay Type	8 SPDT, 8 SPST
Contact Rating	AC: 120 V @ 0.5 A DC: 24 V @ 1 A
Operate Time	1 ms (Typical)
Release Time	7 ms (Typical)
Insulation Resistance	1000 MΩ
Life	Mechanical: 2,000,000 ops. Electrical: 100,000 ops.
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	800 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-P16R16U CR

Universal PCI, 16-ch relay output and 16-ch isolated D/I board. (RoHS)
Includes one CA-4037W cable and two CA-4002 D-Sub connectors.