

I/O Cards

PISO-P32C32U

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



Features ▶▶▶▶

- Universal PCI (3.3 V/5 V) interface
- 32-ch optically isolated open collector output (Current Sinking, NPN type)
- DIO response time is about 250 us (4 kHz max.)
- 32-ch optically isolated D/I
- 3000 Vdc isolation voltage
- Card ID function
- Drop-in replacement for PISO-P32C32

Introduction

The PISO-P32C32U 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 which allows either internal isolated power supply or external power selected by jumper. Each digital output offers a Darlington transistor. The power supply of the input port may use the external power or the power from the PC side via DC/DC converter. The power supply of the output port should use the external power. The board eliminates ground-loop problems and isolates the host computer from damaging voltages. The PISO-P32C32U is fully compatible with the PISO-P32C32, and users can replace the PISO-P32C32 by the PISO-P32C32U directly without software/driver modification.

The PISO-P32C32U also adds a Card ID switch (version 1.1 or above). Users can set Card ID on a board and recognize the board by the ID via software when using two or more PISO-P32C32U cards in one computer.

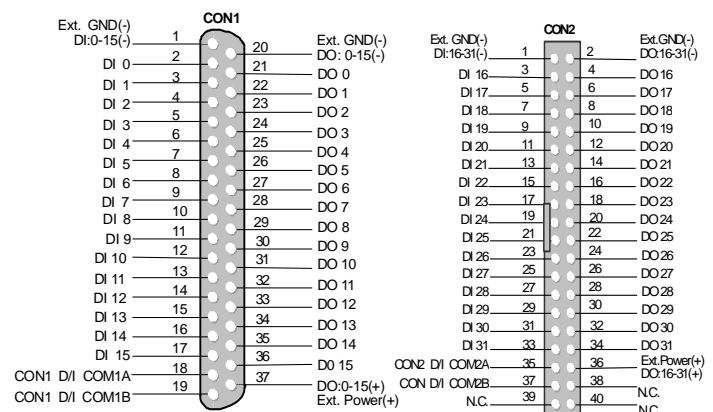
Software

- 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	100 mA/+30 V for one channel @ 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-P32C32U CR

Universal PCI, 32-ch optically isolated D/I and 32-ch optically isolated open collector output Board (Sink, NPN). (RoHS)
Includes one CA-4037W cable and two CA-4002 D-Sub connectors.