

I/O Cards

PISO-P64U PISO-P64U-24V *Available soon*

Universal PCI, 64-ch Optically Isolated D/I Board



Features ▶▶▶

- Universal PCI (3.3 V/5 V) interface
- 64 optically isolated D/I channels
- Four isolated banks when using four isolated external power supplies
- 3750 Vrms photo-isolation protection
- Drop-in replacement for the PISO-P64
- PISO-P64U: input range +5 V ~ +15 V
- PISO-P64U-24V: input range +20 V ~ +28 V
- Card ID function
- Built-in DC/DC converter providing 3000 Vbc isolation
- Selectable internal or external power for D/I

Introduction

The PISO-P64U/PISO-P64U-24V universal PCI card supports 3.3 V/5 V PCI bus. These cards provide 64 optically isolated digital input channels that use either an internal or external power supply that can be selected via a jumper. The internal power is provided by an onboard isolated DC/DC converter that provides 3000 Vbc isolation and is used for connecting dry-contact input devices. These DI channels are arranged into four isolated banks when using four isolated external power supplies. DI channels 0 ~ 15 are allocated to bank A, DI channels 16 ~ 31 are allocated to bank B, DI channels 32 ~ 47 are allocated to bank C, and DI channels 48 ~ 63 are allocated to bank D. The onboard photo couplers provide 3750 Vrms isolation, and act as an interface to field logic signals, eliminate ground-loop problems, and isolate the host computer from damaging voltages. These cards contains has a single DB-37 connector and a single 40-pin male header, each of which contains 32 input channels. The PISO-P64U/PISO-P64U-24V is fully compatible with the PISO-P64, and users can replace the PISO-P64 by the PISO-P64U/PISO-P64U-24V directly without software/driver modification.

The PISO-P64U/PISO-P64U-24V also adds a Card ID switch on-board. Users can set Card ID and then recognize the board by the ID via software when using two or more PIO-P64U/PISO-P64U-24V cards in one computer.

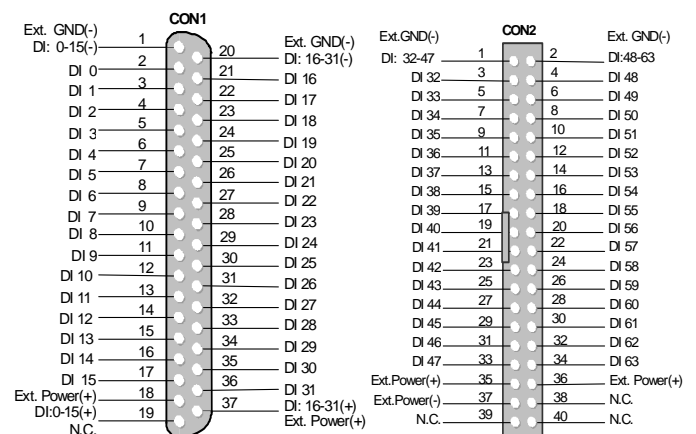
Software

- 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

Models	PISO-P64U	PISO-P64U-24V
Digital Input		
Isolation Voltage	3750 Vrms	
Channels	64-ch	
Compatibility	Photo coupler isolated	
Input Voltage	Logic0: 0~1 V Logic 1: 5~15 V	Logic0: 0~1 V Logic 1: 20~28 V
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 x 1	
Power Consumption	400 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-P64U CR	Universal PCI, 64-ch optically isolated digital input (Input Logic High: 5~15 V) Board. (RoHS) Includes one CA-4037B cable and two CA-4002 D-Sub connectors.
PISO-P64U-24V CR	Universal PCI, 64-ch optically isolated digital input (Input Logic High: 20~28 V) Board. (RoHS) Includes one CA-4037B cable and two CA-4002 D-Sub connectors.