

I/O Cards

PISO-C64U

Universal PCI, 64-ch Optically Isolated
Open-collector D/O Board (Sink, NPN)



Features ▶▶▶▶

- Universal PCI (3.3 V/5 V) interface
- 64 optically isolated D/O channels
- Four isolated banks when using four isolated external power supplies
- 3750 Vrms photo-isolation protection
- Card ID function
- Output status Readback
- Supports Plug & Play to obtain I/O resources
- No more manually settings of I/O address and IRQ
- Drop-in replacement for the PISO-C64

Introduction

The PISO-C64U universal PCI card supports 3.3 V/5 V PCI bus. These cards provide 64 optically isolated digital output (DO) channels, each of which includes a darlington transistor that provides 3750 Vrms isolation, and an integrated suppression diode for inductive load. These DO channels are allocated into four isolated banks when using four isolated external power supplies. These DO channels 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 output channels. The PISO-C64U is fully compatible with the PISO-C64, and users can replace the PISO-C64 by the PISO-C64U directly without software/driver modification.

The PISO-C64U 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-C64U cards in one computer.

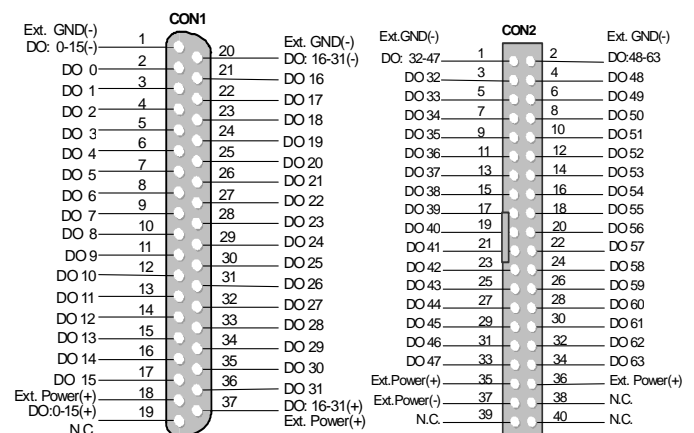
Software

- 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 Output | |
|-----------------------|---|
| Isolation Voltage | 3750 Vrms |
| Channels | 64-ch |
| Compatibility | Sink, Open Collector |
| Output Capability | 100 mA/+30 V for one channel @ 60% 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 x 1 |
| 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-C64U CR

Universal PCI, 64-ch optically isolated open-collector digital output Board (Current Sinking). (RoHS)
Includes one CA-4037B cable and two CA-4002 D-Sub connectors.