

I/O Cards

PIO-D64U

Universal PCI, 64-ch OPTO-22 Compatible
DIO Board



Features ▶▶▶▶

- Universal PCI (3.3 V/5 V) interface
- 64-ch 5 V TTL DIO
- Card ID function (SMD Switch)
- D/I with pull-high and pull-low resistors
- 4 independent programmable 16-bit timer/counters
- One 32-bit timer with a 4MHz clock base
- Provide clock source: 2 MHz, 1MHz, 500 KHz, 250 KHz
- DIO response time is about 1 us (1 MHz max.)
- Interrupt trigger: Even/Timer trigger
- 3 Interrupt sources

Introduction

The PIO-D64U card is the new generation product that ICP DAS provides to meet RoHS compliance requirement. The new PIO-D64U card is designed as a drop-in replacement for the PIO-D64, and users can replace the PIO-D64 by the PIO-D64U directly without software/driver modification.

The PIO-D64U universal PCI card supports 3.3 V/5 V PCI bus. These cards provide 32-ch digital input and 32-ch digital output that consist of two 16-bit input ports and two 16-bit output ports. The PIO-D64U also offer 6-ch counter/timer with four-clock sources, 2 MHz, 1 MHz, 500 kHz and 250 kHz. The user can use the clock source from the soldering pad. 3 of the 6-ch timer/counter are for general purposes such as frequency measurement, event counting and pulse generation; the other 3 channels are for interrupt function.

The PIO-D64U also adds a Card ID switch and pull-high/pull-low resistors for DI on-board. Users can set Card ID and recognize the board by the ID via software when using two or more PIO-D64U cards in one computer. The pull-high/pull-low resistors allow the DI status to be specified when the DI channels are unconnected; the DI status may remain in high or low status other than floating.

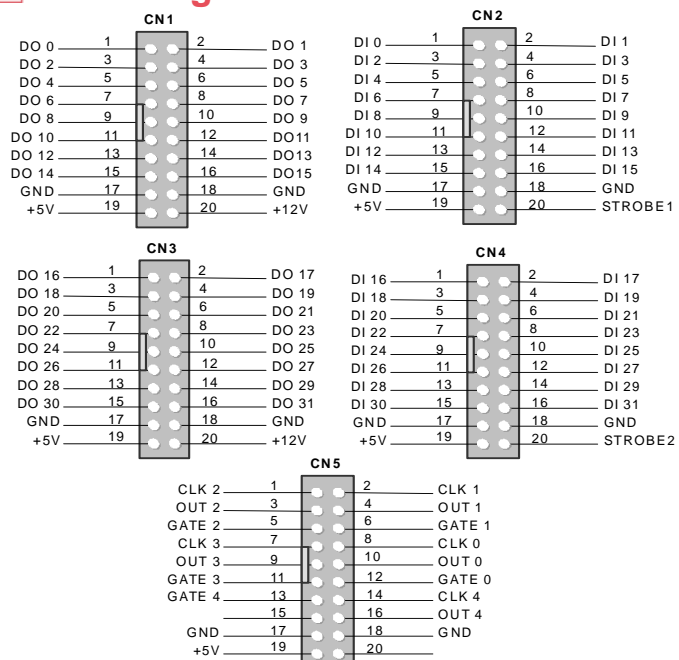
Software

- 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 I/O	
I/O Channels	32-ch, 5 V TTL
Input Logic Low	0.8 V max.
Input Logic High	2.4 V min.
Output Source Current	15 mA max.
Output Sink Current	24 mA max.
Programmable Interrupts	3
General	
Bus Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, Plug and Play
Connectors	20-pin box header x5
Power Consumption	580 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

PCI-D64U CR	Universal PCI, 64-ch TTL DIO Board (RoHS)
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