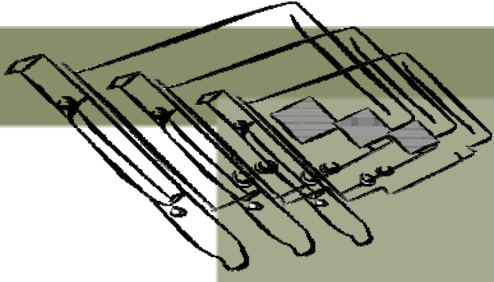


I/O CARD QUICK START GUIDE



for PIO-D168U

English/ Oct. 2010/ Version 1.0

1

What's in the shipping package?

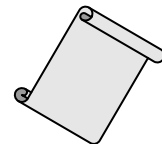
- One PIO-D168U series card
- One software utility PCI CD (V4.9 or later)
- One Quick Start Guide (This document)



**PIO-D168U
Series Card**



Software Utility CD



Quick Start Guide

2

Installing Windows Driver

Follow these steps:

1. Setup the Windows driver. The driver is located at:

- The UniDAQ driver supports 32-bit/64-bit Windows XP/2003/Vista/2008/7; it is recommended to install this driver for new user:

CD:\NAPDOS\PCI\UniDAQ\DLL\Driver\
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/dll/driver/>



This example uses this driver

- The PIO-DIO driver supports Windows 98/NT/2K and 32-bit XP/2003/Vista/7. Recommended to install this driver for have been used PIO-DIO series boards of regular user, please refer to:

CD:\NAPDOS\PCI\PIO-DIO>manual\QuickStart\PID-D144_168_QuickStart_Eng.pdf
http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pio-dio/manual/quickstart/pio-d144_168_quickstart_eng.pdf

2. Click the “**N**ext>” button to start the installation.
3. Click the “**N**ext>” button to install the driver into the default folder.
4. Click the “**I**nstall” button to continue the installation.
5. Select “**N**O, I will restart my computer later” and then click the “**F**inish” button.

3

Installing Hardware on PC

Follow these steps:

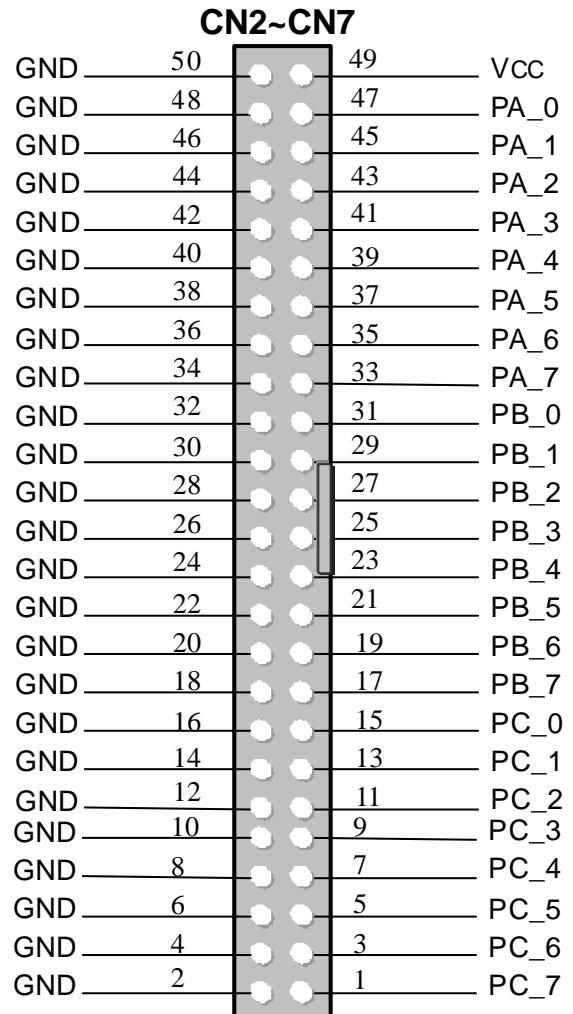
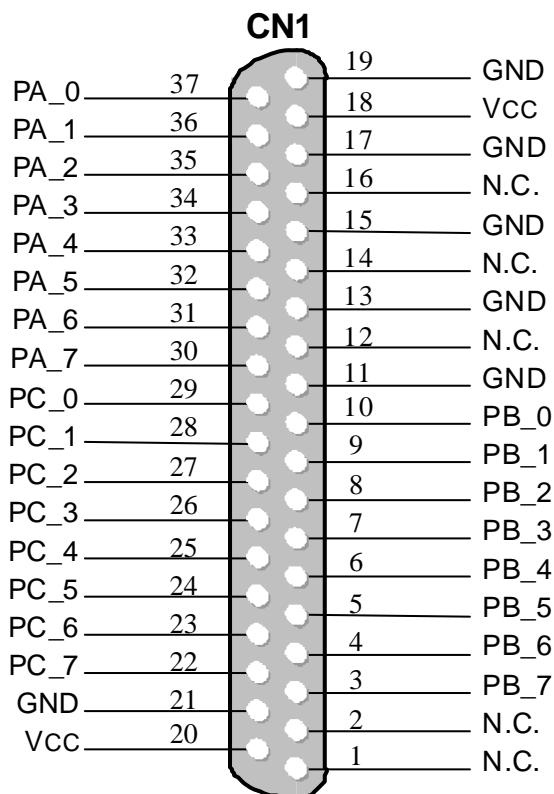
1. Shut down and power off your computer.
2. Remove the cover from the computer.
3. Select an unused PCI slot.
4. Carefully insert your I/O card into the PCI slot.
5. Replace the PC cover.
6. Power on the computer.

After powering-on the computer, please finish the Plug&Play steps according to the prompted messages.

4

Pin Assignments

- **CN1: 37-pin D-type female connector** (Port 0~Port 2)
- **CN2/CN3/CN4/CN5/CN6/CN7: 50-pin flat-cable connector** (Port 3~Port 20)



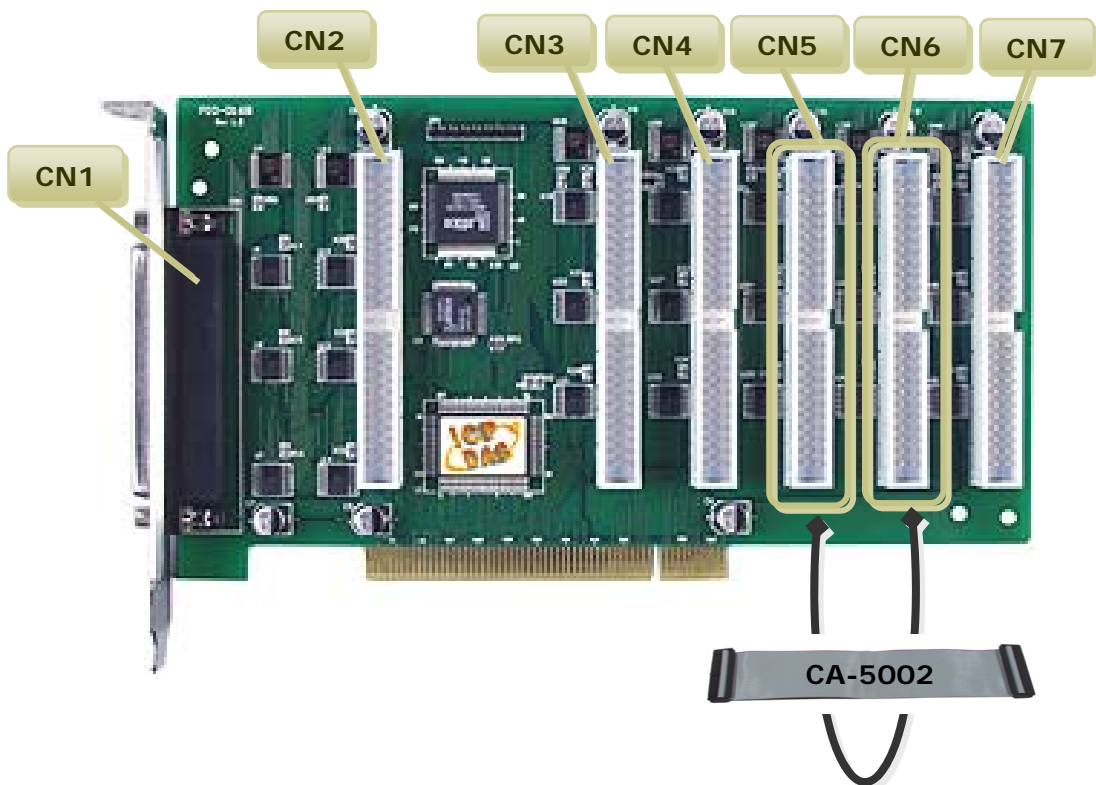
All Signals are TTL Compatible

High (1)	2.0 ~ 5.0 V(Voltage over 5.0V will damage the device)
None Define	2.0 V ~ 0.8 V
Low(0)	Under 0.8 V

5 Self Test

❏ DIO Test Wiring:

1. Use CA-5002 (optional) to connect the CN5 with CN6.
(Connect the Port 12,13,14 with Port 15,16,17)



❏ Execute the Digital IO sample program:

2. The sample program is contained in:

CD:\NAPDOS\PCI\UniDAQ\DLL\Demo\

<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/dll/demo/>

3. The following sample program is written in Delphi4.

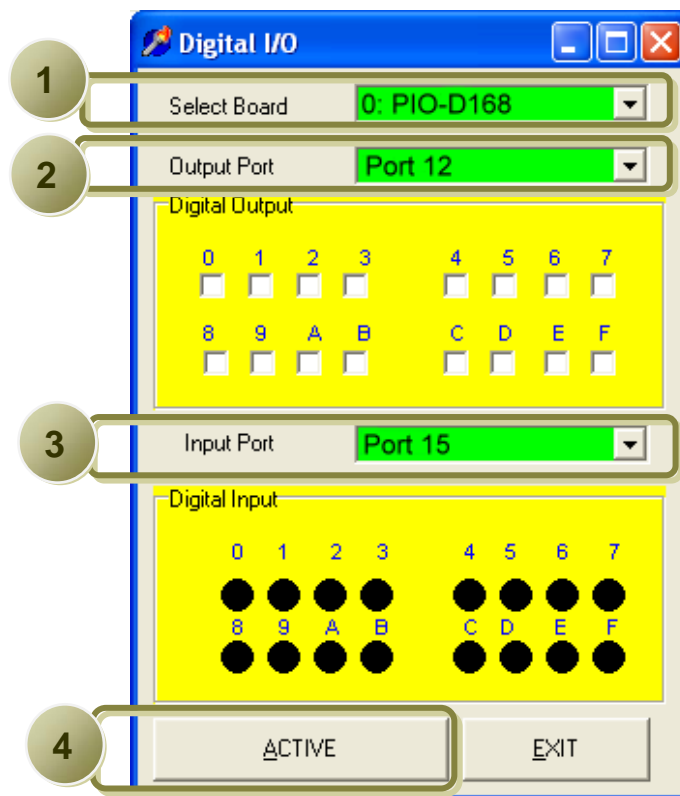
File: DLL_delphi4_xxxxxx.exe
 Path: ... \ DLL_Delphi4 \ Digital_IO \
 Double click the "Digital_IO.exe"



Digital_IO.exe

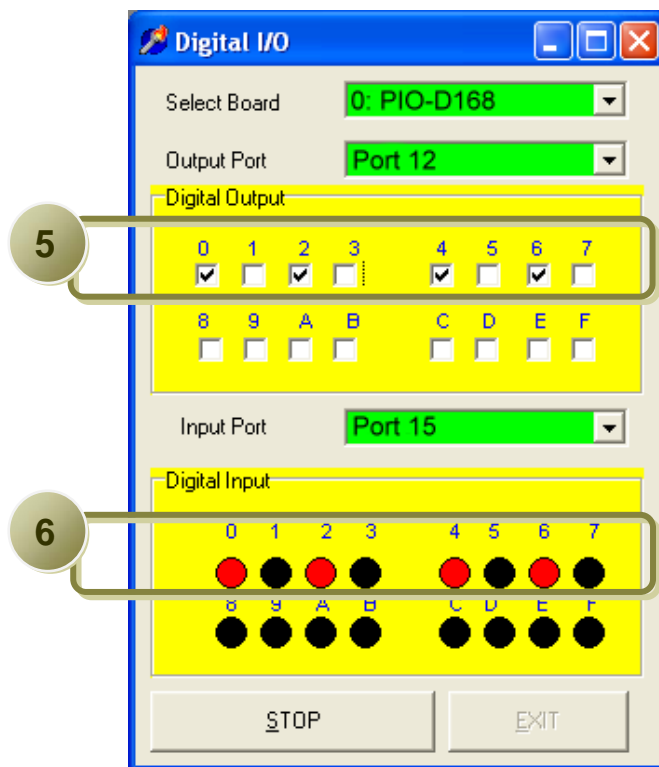
4. Set the test program.

- 1 Select the board number for the PIO-D168 to activate. (It ranges form 0 to total board number subtracting one)
- 2 Select Port 12 in the Output port drop down list.
- 3 Select the Port 15 in the Input port drop down list.
- 4 Click this button to start test.



5. Get DIO function test result.

- 5 Click channel 0、2、4、6 in Digital Output field.
- 6 The Digital Input status should show current status-- channel 0、2、4、6 now in high state. (Red light)



Related Information

- ❏ **PIO-D168U Series Card product page:**
http://www.icpdas.com/products/DAQ/pc_based/pio_d168.htm
- ❏ **CA-5002 page (optional):**
http://www.icpdas.com/products/Accessories/cable/cable_selection.htm
- ❏ **Documentation:**
 CD:\NAPDOS\PCI\PIO-DIO\Manual
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pio-dio/manual/>
 CD:\NAPDOS\PCI\UniDAQ\Manual
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/maunal/>
- ❏ **Software:**
 CD:\NAPDOS\PCI\UniDAQ\DLL
<http://www.icpdas.com/download/pci/pio-dio.htm>

