I/O CARD QUICK START GUIDE

for PISO-P8R8U Series

PCI Bus Digital I/O Boards

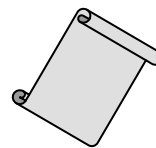## 1

What's in the shipping package?

- One PISO-P8R8U/P8SSR8UAC/P8SSR8UDC series card
- One software utility PCI CD (V5.2 or later)
- One Quick Start Guide (This document)
- One CA-4002 D-Sub connector

PISO-P8R8U
PISO-P8SSR8UAC
PISO-P8SSR8UDC
Series Card

Software Utility CD

Quick Start Guide

CA-4002

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 2K/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 PISO-DIO driver supports Windows 98/NT/2K and 32-bit XP/2003/Vista/7. Recommended to install this driver for have been used PISO-DIO series boards of regular user, please refer to:
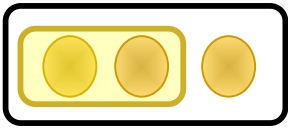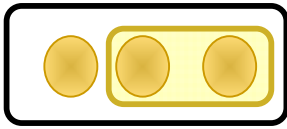
   > CD:\NAPDOS\PCI\PISO-DIO\manual\QuickStart\PSIO-P8R8_QuickStart_Eng.pdf
   > http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/manual/quickstart/piso-p8r8_quickstart_eng.pdf

2. **Click the "Next>" button to start the installation.**

3. **Click the "Next>" button to install the driver into the default folder.**

4. **Click the "Install" button to continue the installation.**

5. **Select "NO, I will restart my computer later" and then click the "Finish" button.**

3 Jumper Setting

Please make sure JP1~JP8 jumper is kept in default setting before self-test.

Jumper	Channel	Without filter for DC signal	With filter for AC signal (or for DC signal)
JP1	DIA0-DIB0		
JP2	DIA1-DIB1		
JP3	DIA2-DIB2	1 2 3	1 2 3
JP4	DIA3-DIB3		
JP5	DIA4-DIB4		
JP6	DIA5-DIB5	1 2 3	1 2 3
JP7	DIA6-DIB6	**Default Setting**	
JP8	DIA7-DIB7		
This example uses the filter		✔	

PCI Bus Digital I/O Boards

4 Installing Hardware on PC
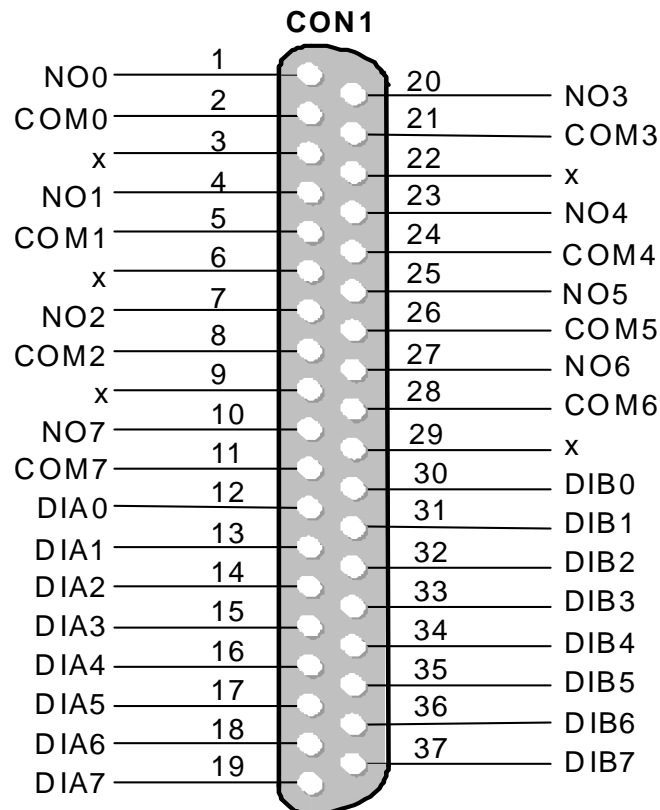
Follow these steps:

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.

5 Pin Assignments

CON1 Connector (Female DB37)

CON1

| Pin	Signal		Pin	Signal
1	NO0		20	NO3
2	COM0		21	COM3
3	x		22	x
4	NO1		23	NO4
5	COM1		24	COM4
6	x		25	NO5
7	NO2		26	COM5
8	COM2		27	NO6
9	x		28	COM6
10	NO7		29	x
11	COM7		30	DIB0
12	DIA0		31	DIB1
13	DIA1		32	DIB2
14	DIA2		33	DIB3
15	DIA3		34	DIB4
16	DIA4		35	DIB5
17	DIA5		36	DIB6
18	DIA6		37	DIB7
19	DIA7			

6 Self Test

1. **Prepare for device:**
   - DN-37 (optional) wiring terminal board.
   - Exterior power supply device. For example: DP-665(optional)

2. **Use the DN-37 to connect the board CON1.**

3. External Power +24V **connect to** NO0 (Pin 1)
   …. External Power +24V **connect to** NO7 (Pin 10)

4. External Power GND **connect to** DIB0 (Pin 30)
   …. External Power GND **connect to** DIB0 (Pin 37)

5. COM0 (Pin 2) **connect to** DIA0 (Pin 12)
   …. COM7 (Pin11) **connect to** DIA7 (Pin 19)

PCI Bus Digital I/O Boards
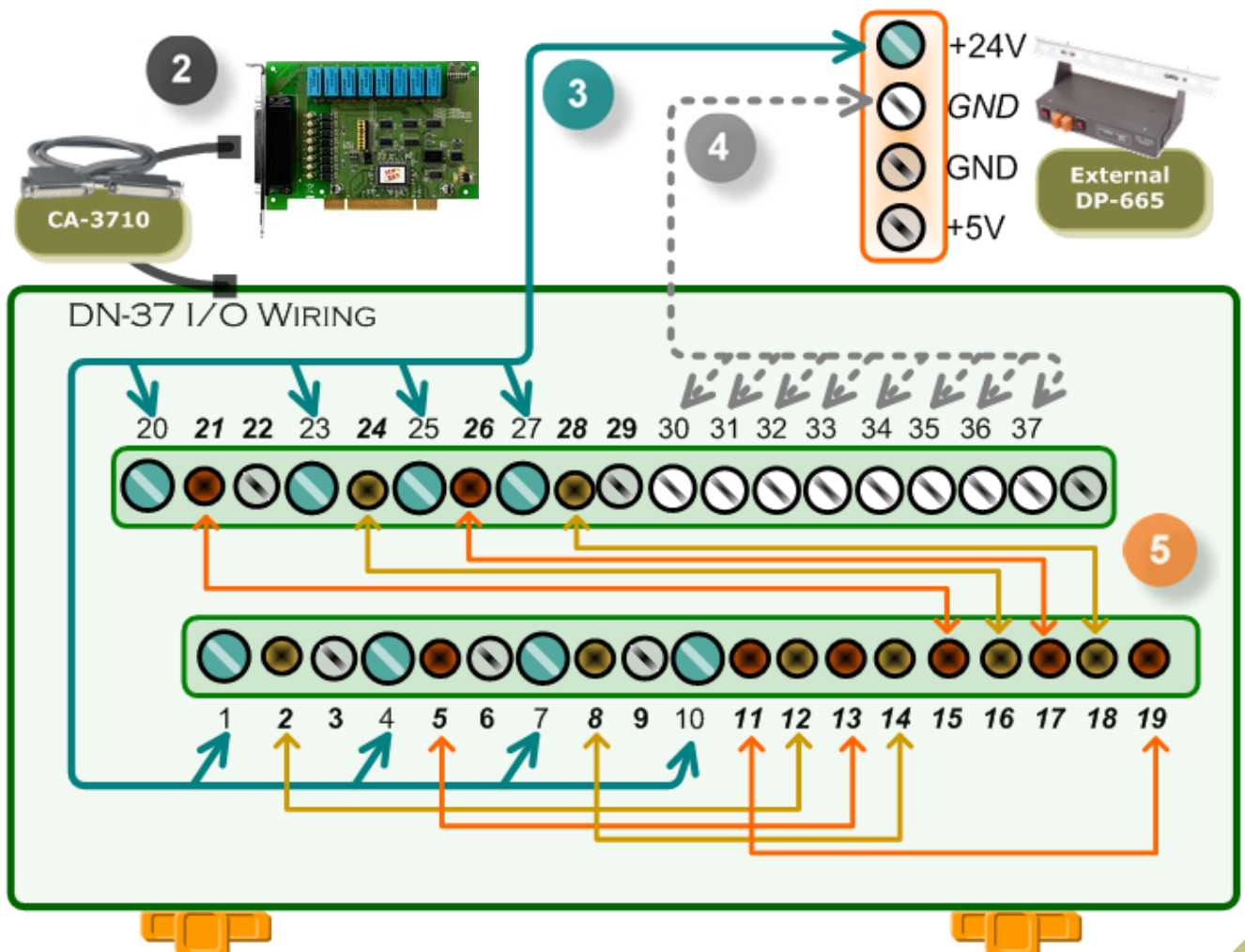
6. Execute the Digital IO sample program. The sample program is contained in:

CD:\NAPDOS\PCI\UniDAQ\DLL\Demo\
http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/dll/demo/

## 7. 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

8. Set the test program.

1 Select the board number for the PCI-P8R8 series to activate. (It ranges form 0 to total board number subtracting one)

2 Select the Port 0 in the Output port drop down list.

3 Select the Port 0 in the Input port drop down list.

4 Click this button to start test.

PCI Bus Digital I/O Boards
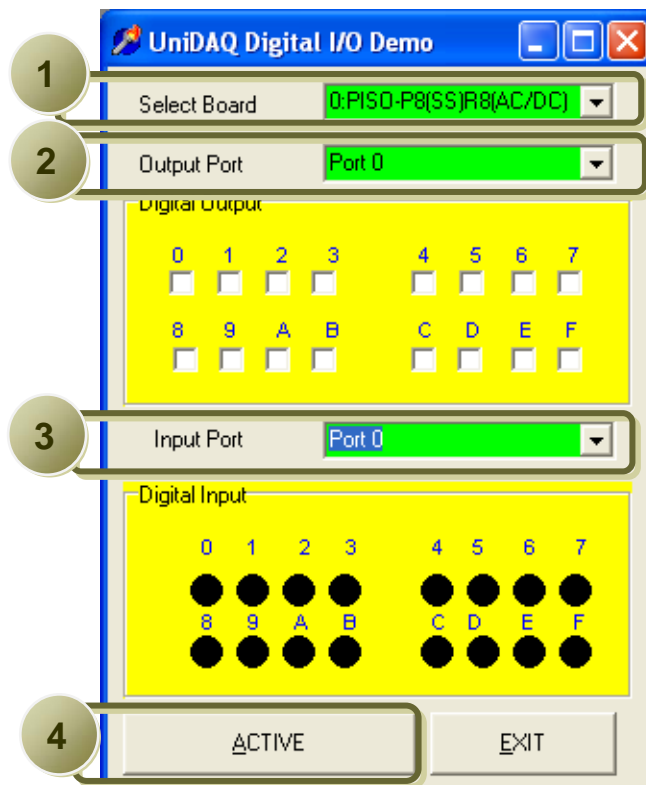
9. Get DIO function test result.

5 Check channel 0、2、4、6 in Digital Output field.

6 The corresponding DI becomes black for channel 0、2、4、6 of DO is ON.
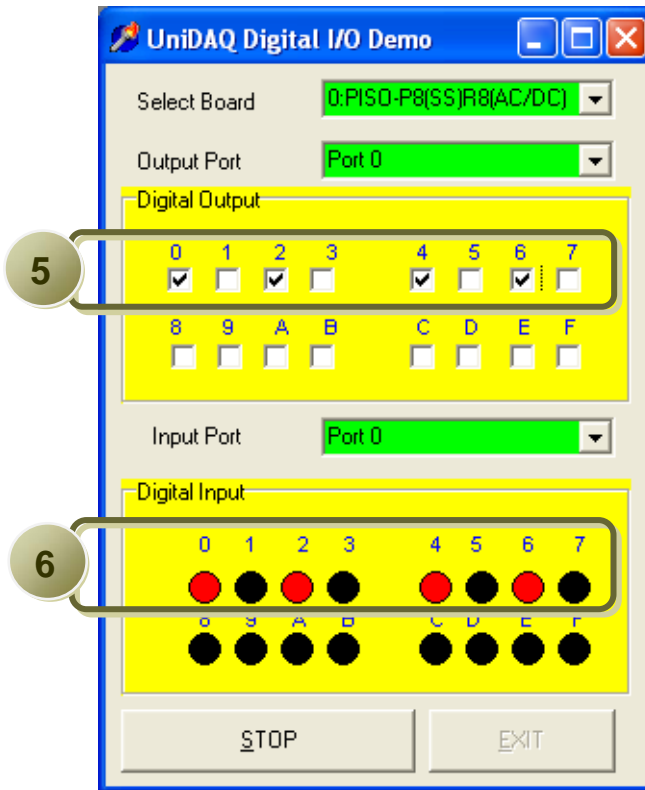
Related Information

■■ **PISO-P8R8U Series Card product page:**
http://www.icpdas.com.tw/product/solutions/pc_based_io_board/pci/piso-p8r8.html

■■ **DP-665, CA-3710 and DN-37 page (optional):**
http://www.icpdas.com/products/Accessories/power_supply/dp-665.htm
http://www.icpdas.com/products/Accessories/cable/cable_selection.htm
http://www.icpdas.com/products/DAQ/screw_terminal/dn_37.htm

■■ **Documentation:**
CD:\NAPDOS\PCI\PISO-DIO\Manual
http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-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/piso-dio.htm

ICP DAS Web Site: http://www.icpdas.com
Contact Us (E-Mail): service@icpdas.com , service.icpdas@gmail.com