

# *PCI-P8R8U*





## *Universal PCI, 8-channel isolated digital input and 8-channel Relay output*






### Quick Start Guide

# 1

## Shipping Package

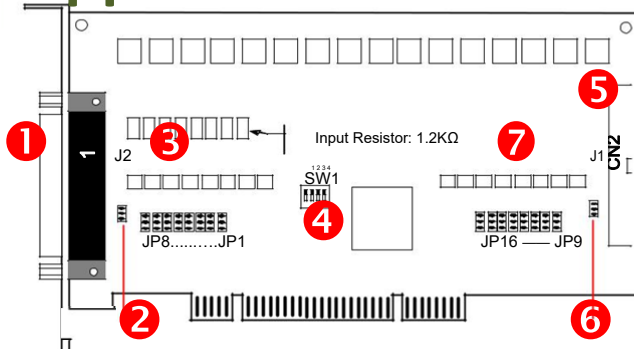
The package includes the following items:

- ① PCI-P8R8U Card x1 
- ② Software CD x1 
- ③ Quick Start (This Document) x1 
- ④ CA-4002 D-Sub Connector x1 

- ① PCI-P16R16U Card x1 
- ② Software CD x1 
- ③ Quick Start (This Document) x1 
- ④ CA-4037W Cable x1 
- ⑤ CA-4002 D-Sub Connector x2 

# 2

## Appearance



- 1. **CN1:** DIO channel 0-7.
- 2. **J2:** Set the Ground Isolated Protection
- 3. **JP1-JP8:** Input Signal Type Jumper (CN1)
- 4. **SW1:** Card ID Setting.

*For PCI-P16R16U only, as follows:*

- 5. **CN2:** DIO channel 8-15
- 6. **J2:** Set the Ground Isolated Protection
- 7. **JP9-JP16:** Input Signal Type Jumper (CN2)

# 3

## Installing windows Driver

- 1 Setup the Windows driver, which can be obtained from either the companion CD-ROM or the ICP DAS web site:

The UniDAQ driver supports 32-/64-bit Windows XP/2003/7/8/10; 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/>

- The PCI-P16R16 series classic driver supports Windows 98/NT/2K and 32-bit XP/2003/7/8/10. Recommended to install this driver for have been used PCI-P16R16 series boards of regular user, please refer to : <http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/manual/quickstart/classic/>

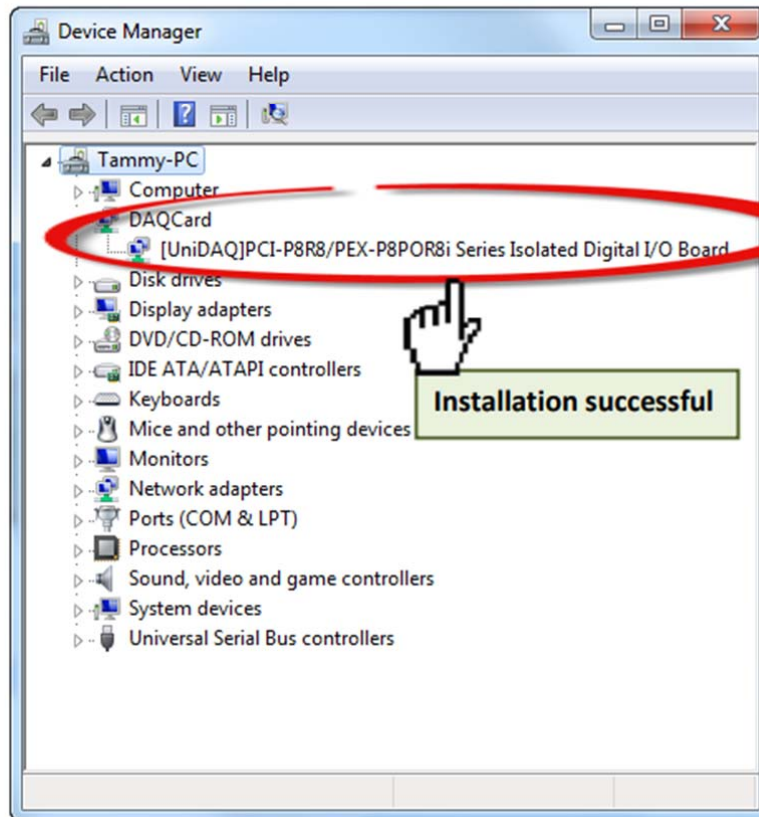
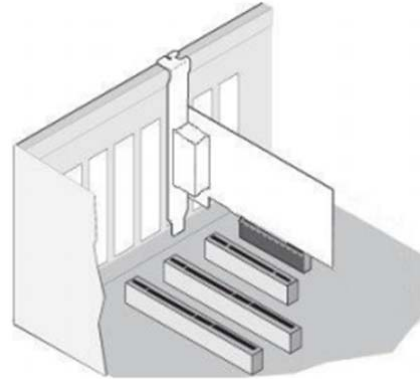
- 2 Click the “Next>” button to start the installation.
- 3 Check your I/O Card is or not on supported list, then click the “Next>” button.
- 4 Select the installed folder, the default path is **C:\ICPDAS\UniDAQ** , confirm and click the “Next>” button.
- 5 Check your I/O Card on list, then click the “Next>” button.
- 6 Click the “Next>” button on the Select Additional Tasks window.
- 7 Click the “Next>” button on the Download Information window.
- 8 Select “No, I will restart my computer later” and then click the “Finish” button.

For more detailed information about how to install the UniDAQ driver, refer to “Section 2.2 Install UniDAQ Driver DLL” of the UniDAQ Software Manual, which can be found in the \NAPDOS\PCI\UniDAQ\Manual\ folder on the companion CD, or can be downloaded from: <http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/manual/>

# 4

## Installing Hardware on PC

- 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.
- 7 Follow the prompt message to finish the Plug & Play steps.
- 8 Please open the **"Device Manager"** to verify the I/O card is correctly listed in the Device Manager.





# 6

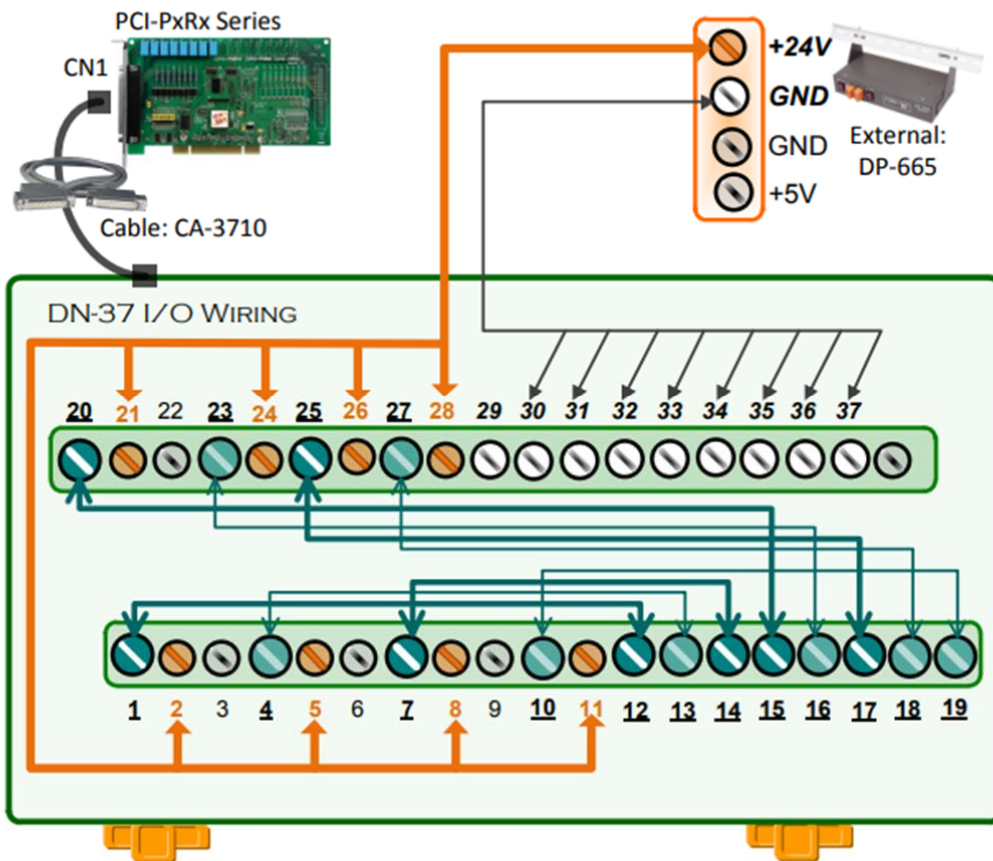
## Self-Test

➤ **Prepare for device:**

- ☑ DN-37 (optional) wiring terminal board
- ☑ Exterior power supply device. For example: DP-665 (optional)
- ☑ CA-3710 (optional) cable

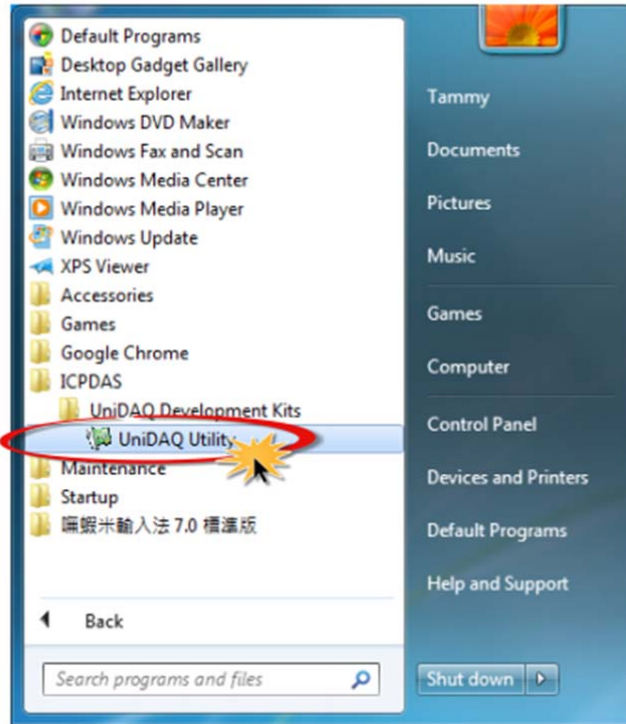
➤ **Self-test wiring as follows:**

- ❶ Use the **DN-37** to connect the **CN1** on board.
- ❷ Connect the **NO (0-7)** with **DIA (0-7)**.  
(Pin1/4/7/20/23/25/27/10 connects to Pin12/13/14/15/16/17/18/19).
- ❸ **Power Supply (+24 V)** connects to **COM(0-7)** (Pin2/5/8/21/24/26/28/11).
- ❹ **Power Supply GND** connects to **DIB(0-7)** (Pin30/31/32/33/34/35/36/37).



➤ **Execute the UniDAQ Utility as follows:**

❶ In Windows 7, click the “Start” button, point to “All Programs”, and then click the “ICPDAS” folder. Point to “UniDAQ Development Kits” and then click the “UniDAQ Utility” to execute the UniDAQ Utility Program.



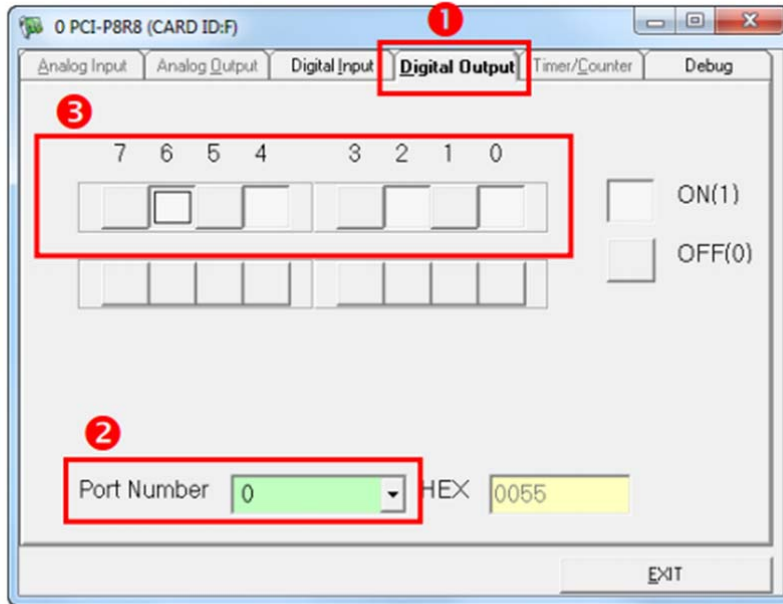
❷ Confirm that PCI-P8R8/P16R16 Series card has been successfully installed in the host system. Note that the device numbers start from 0.

❸ Click the “TEST” button to start the test.



**4** Check the results of the **Digital Input/Output** functions test.

1. Click the **“Digital Output”** tab.
2. Select **“Port0”** from the **“Port Number”** drop-down menu.
3. Check the checkboxes for **channels 0, 2, 4 and 6.**



4. Click the **“Digital Input”** tab.
5. Select **“Port0”** from the **“Port Number”** drop-down menu.
6. The DI indicators will turn **red** when the corresponding DO channels 0, 2, 4 and 6 are **ON**.

