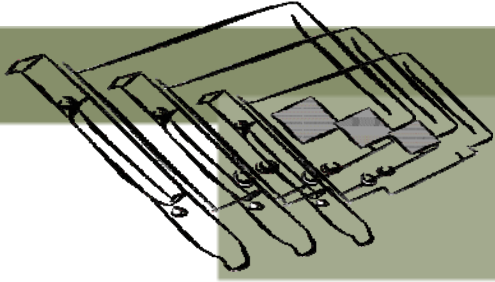


I/O CARD QUICK START GUIDE



for PEX-P8POR8i/P16POR16i

English/ Aug. 2011/ Version 1.1

1

What's in your package?

- One PEX-P8POR8i/P16POR16i series card
- One companion PCI CD (V5.1 or later)
- One Quick Start Guide (This document)
- One CA-4002 D-Sub connector for PEX-P8POR8i
- One CA-4037W cable and two CA-4002 D-Sub connector for PEX-P16POR16i



PEX-P8POR8i Card



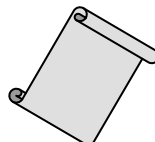
Software Utility CD



CA-4002 D-Sub Connector



PEX-P16POR16i Card



Quick Start Guide



CA-4037W Cable

2

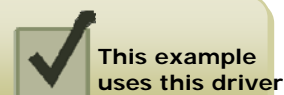
Installing Windows Driver

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/>



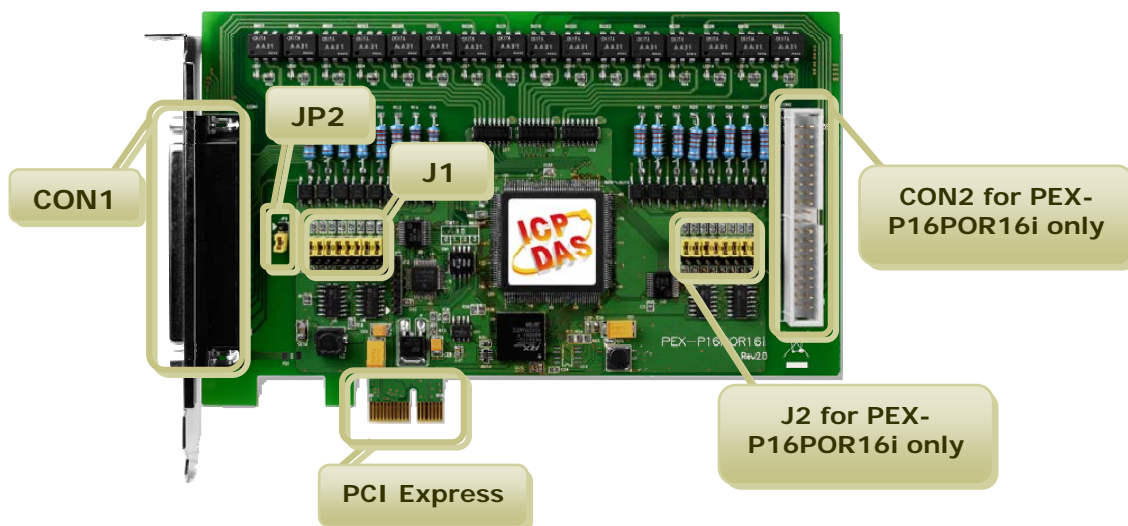
- The PCI-P16R16 series driver supports Windows 98/NT/2K and 32-bit XP/2003/Vista/7. Recommended to install this driver for have been used PCI-P16R16 series boards of regular user, please refer to:

CD:\NAPDOS\PCI\PCI-P16R16>manual\QuickStart\PCI_PxPORx_QuickStart_Eng.pdf
http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-p16r16/manual/quickstart/pci_pxporex_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



■ JP2: Ground Isolated Protection Jumper

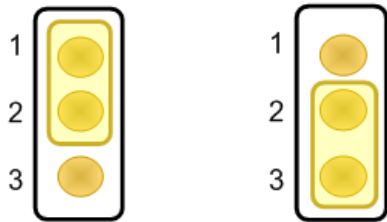


GND Isolation
(Default Setting)

GND Non-Isolation

! For more detailed jumper information, please refer to manual section 1.5.3 Jumper Settings.
CD:\NAPDOS\PCI\PCI-P16R16\manual\

■ J1、J2: Input Signal Type Jumper



Without Filter
For DC Signal
(Default Setting)

Without AC Filter
For AC Signal

Jumper	Channel	Jumper	Channel
J1	DI0	J2	DI8
	DI1		DI9
	DI2		DI10
	DI3		DI11
	DI4		DI12
	DI5		DI13
	DI6		DI14
	DI7		DI15

4 Installing Hardware on PC

Follow these steps:

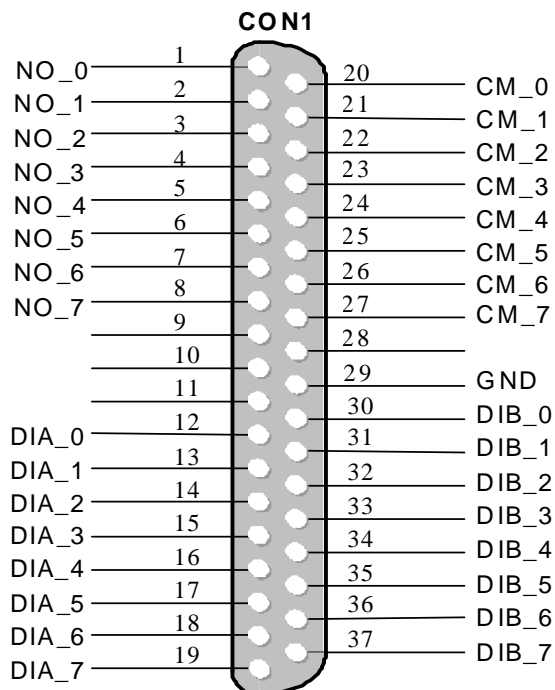
1. Shut down and power off your computer.
2. Remove the cover from the computer.
3. Select an unused PCI Express slot.
4. Carefully insert PEX-P8POR8i/P16POR16i into the PCI Express slot.
5. Replace the PC cover.
6. Power on the computer.

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

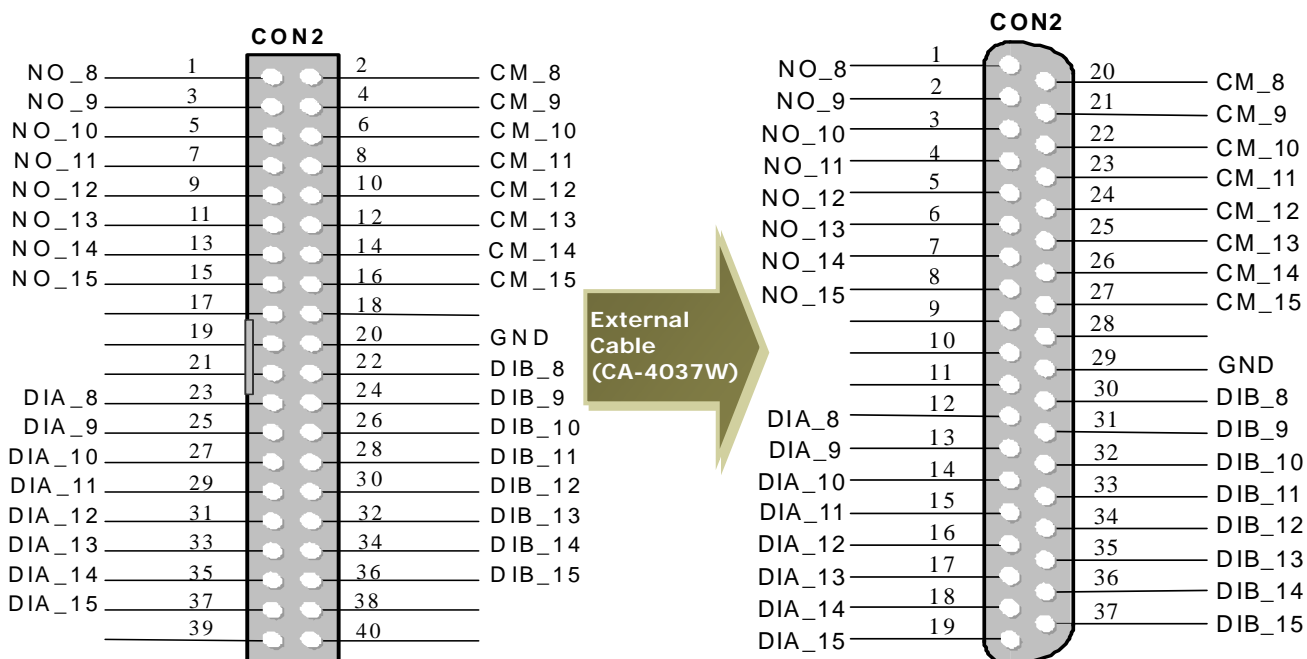
5

Pin Assignments

PEX-P8POR8i/P16POR16i CON1 (Female DB37)



PEX-P16POR16i CON2 (40-pin box header)



40-Pin D-Sub Connector

37-Pin D-Sub Connector

6 Self Test

1. Prepare for device:

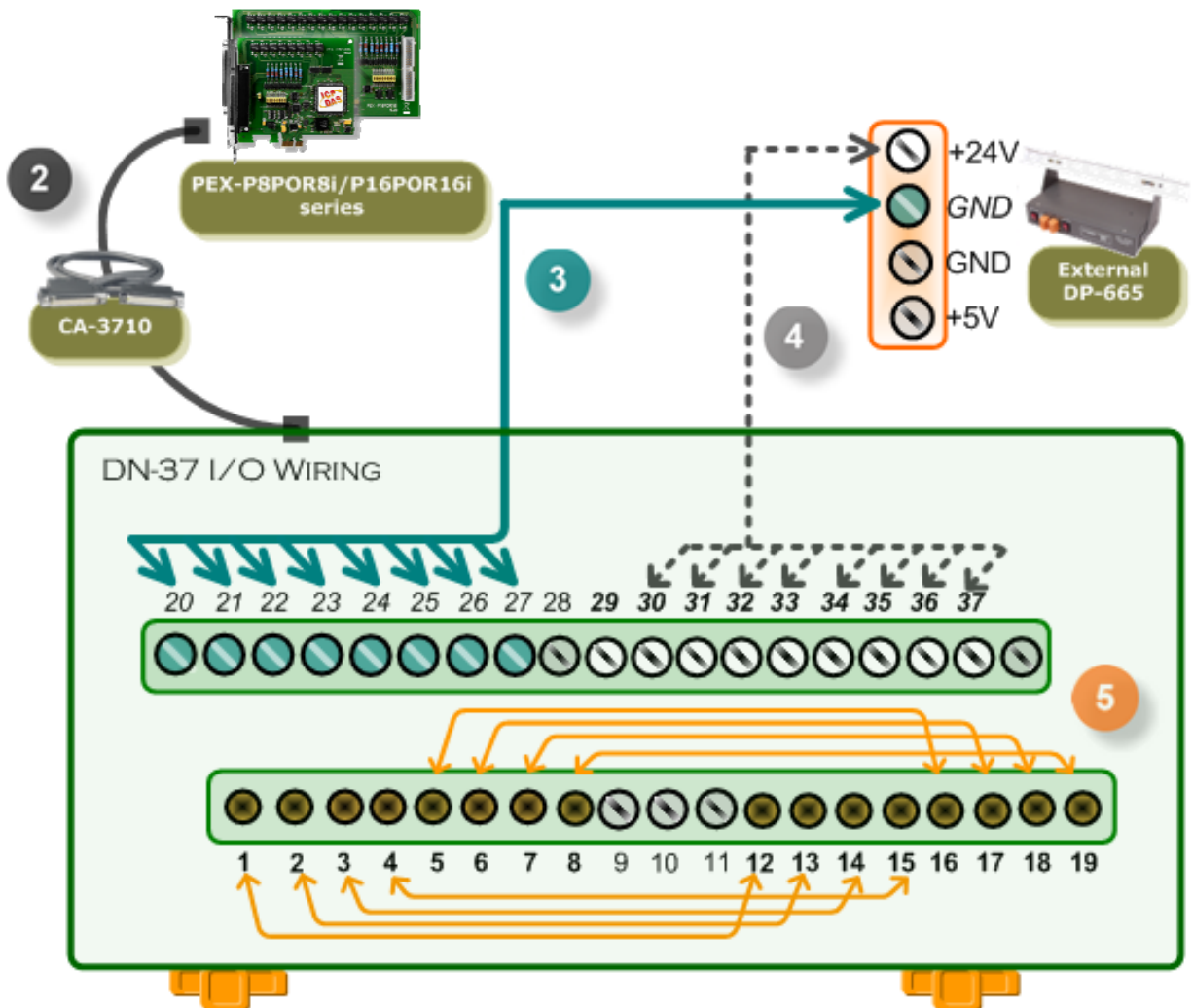
- DN-37 (Optional) wiring terminal board.
- External power supply device. For example: DP-665(Optional)

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

3. Connect the External Power GND to CON1.CM0 Connect the External Power GND to CON1.CM7.

4. Connect the External Power +24 V to CON1.DIB0..... CON1.DIB7.

5. Connect the CON1.NO0 with CON1.DIA0 Connect the CON1.NO7 with CON1.DIA7.



**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

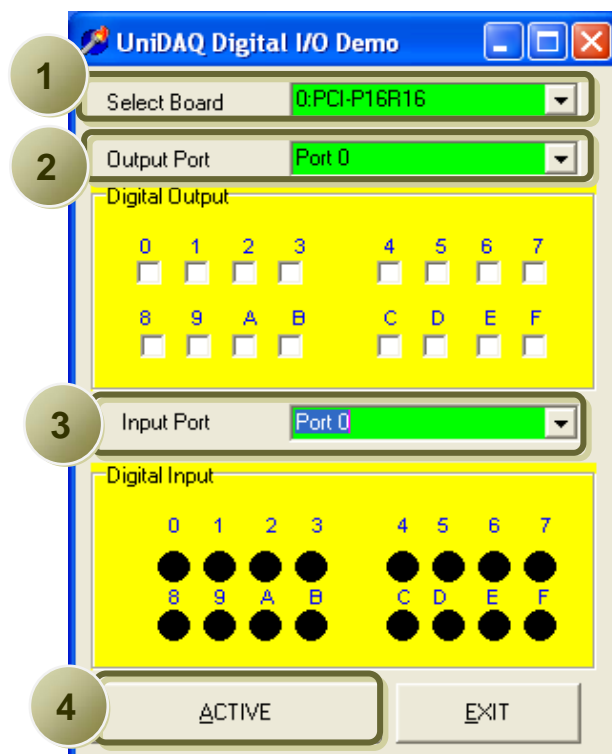
Path:\ DLL_Delphi4\Digital_IO\
 Double click the "Digital_IO.exe"



Digital_IO.exe

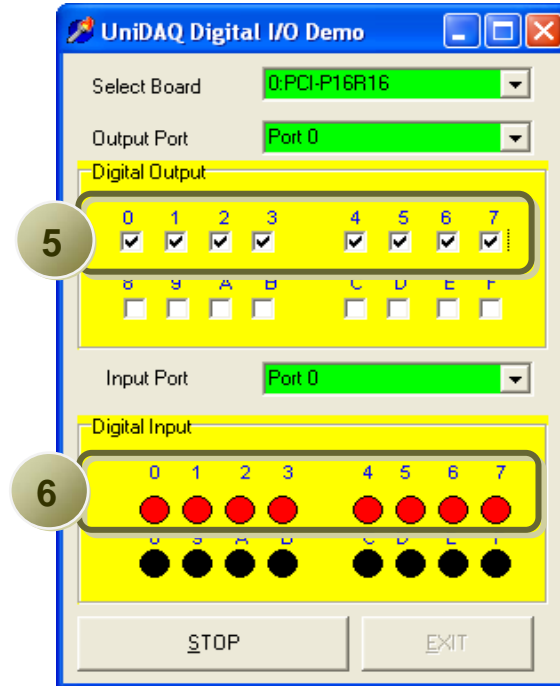
**8. Verify total numbers of the PEX-PxPORxi card and
Perform DIO(0-7) functions test.**

- 1 Select the board number for the PEX-PxPORxi 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.



9. Get DIO(0-7) function test result.

- 5 Click channel 0、1、2、3、4、5、6、7 in Digital Output field.
- 6 The Digital Input status should show current status-- channel 0、1、2、3、4、5、6、7 now in high state (Red light).



Additional Information

- **PEX-P8POR8i/P16POR16i Series Card Product page:**
http://www.icpdas.com/products/DAQ/pc_based/pci_p16por16.htm
- **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\PCI-P16R16\Manual
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-p16r16/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/pci-p16r16.htm>

