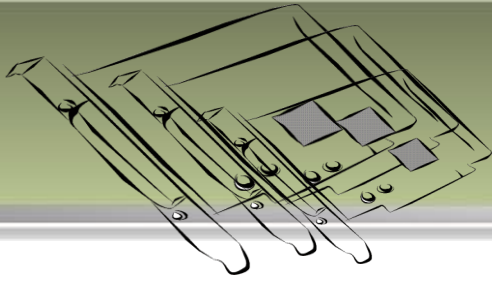


I/O CARD QUICK START GUIDE







For PCI-P8R8/P16R16

English/ Jun. 2013/ Version 1.2



1 What's in the shipping package?

The package includes the following items:

One PCI-PxRx series board as follows:	
 PCI-P8R8	 PCI-P16R16
 One Software Utility CD (V5.2 or later)	
 One Quick Start Guide (This Document)	
 -	One CA-4037B Cable for
 One CA-4002 D-Sub connector	Two CA-4002 D-Sub connectors

2 Installing Windows Driver

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

- The UniDAQ driver supports 32-/64-bit Windows 2K/XP/2003/Vista/7/8; 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/unidag/dll/driver/>

- The PCI-P16R16 Series classic driver supports Windows 98/NT/2K and 32-bit XP/ 2003/ Vista/7/8. 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/pci-p16r16/manual/quickstart/classic/>

Step 2: Click the "**N**ext>" button to start the installation.

Step 3: Check your DAQ Card is or not on supported list, then click the "**N**ext>" button.

Step 4: Select the installed folder, the default path is C:\ICPDAS\UniDAQ , confirm and click the "**N**ext>" button.

Step 5: Check your DAQ Card on list, then click the "**N**ext>" button.

Step 6: Click the "**N**ext>" button on the **Select Additional Tasks** window.

Step 7: Click the "**N**ext>" button on the **Download Information** window.

Step 8: Select "**No, I will restart my computer later**" and then click the "**F**inish" button.

For detailed information about the driver installation, please refer to Chapter 2.1 "Getting the UniDAQ Driver DLL Installer package" of the UniDAQ SDK user manual.

3 Installing Hardware on PC

Step 1: Shut down and power off your computer.

Step 2: Remove the cover from the computer.

Step 3: Select an unused PCI slot.

Step 4: Carefully insert your I/O card into the PCI slot.

Step 5: Replace the PC cover.

Step 6: Power on the computer.

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


4 Pin Assignments

Pin Assignment CON2	Pin Assignment CON1	Terminal No.	Pin Assignment CON1	Pin Assignment CON2
NO_8	NO_0	01	20	NO_3
COM_8	COM_0	02	21	COM_3
NC_8	NC_0	03	22	NC_3
NO_9	NO_1	04	23	NO_4
COM_9	COM_1	05	24	COM_4
NC_9	NC_1	06	25	NO_5
NO_10	NO_2	07	26	COM_5
COM_10	COM_2	08	27	NO_6
NC_10	NC_2	09	28	COM_6
NO_15	NO_7	10	29	GND
COM_15	COM_7	11	30	DIB_0
DIA_0	DIA_0	12	31	DIB_1
DIA_1	DIA_1	13	32	DIB_2
DIA_2	DIA_2	14	33	DIB_3
DIA_3	DIA_3	15	34	DIB_4
DIA_4	DIA_4	16	35	DIB_5
DIA_5	DIA_5	17	36	DIB_6
DIA_6	DIA_6	18	37	DIB_7
DIA_7	DIA_7	19		

Pin Assignment	Terminal No.	Pin Assignment
NO_8	01	02
COM_8	03	04
NC_8	05	06
NO_9	07	08
COM_9	09	10
NC_9	11	12
NO_10	13	14
COM_10	15	16
NC_10	17	18
NO_15	19	20
COM_15	21	22
DIA_8	23	24
DIA_9	25	26
DIA_10	27	28
DIA_11	29	30
DIA_12	31	32
DIA_13	33	34
DIA_14	35	36
DIA_15	37	38
N/A	39	40

CON2 (40-pin box header)
(PCI-P16R16 only)

CON1 (Female DB-37)



Note:

NO: Normal Open

COM: Common

NC: Normal Close

DIA: Digital Input (Point A)

DIB: Digital Input (Point B)



Extension Cable (CA-4037B):
DB-40-Pin conversion DB-37-Pin



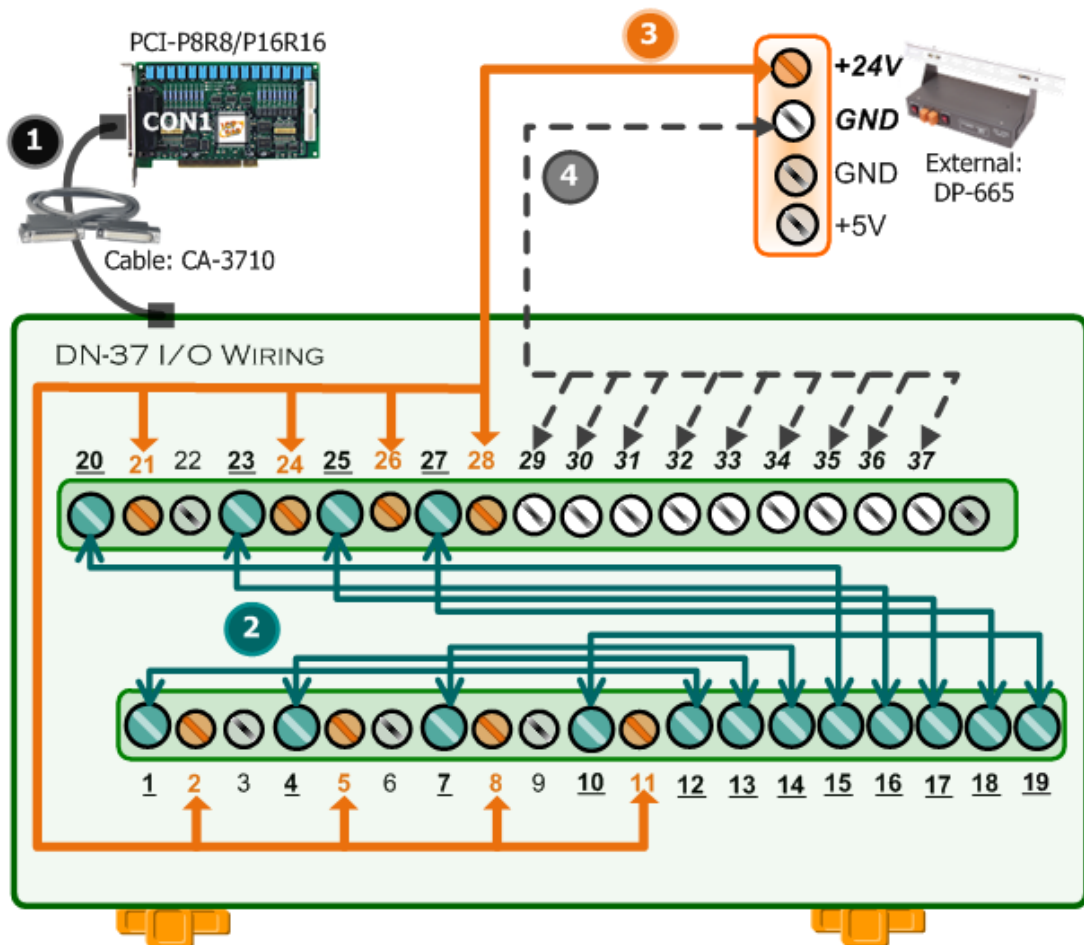
5 Self-Test

■ Prepare for device:

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

■ Self-test wiring as follows:

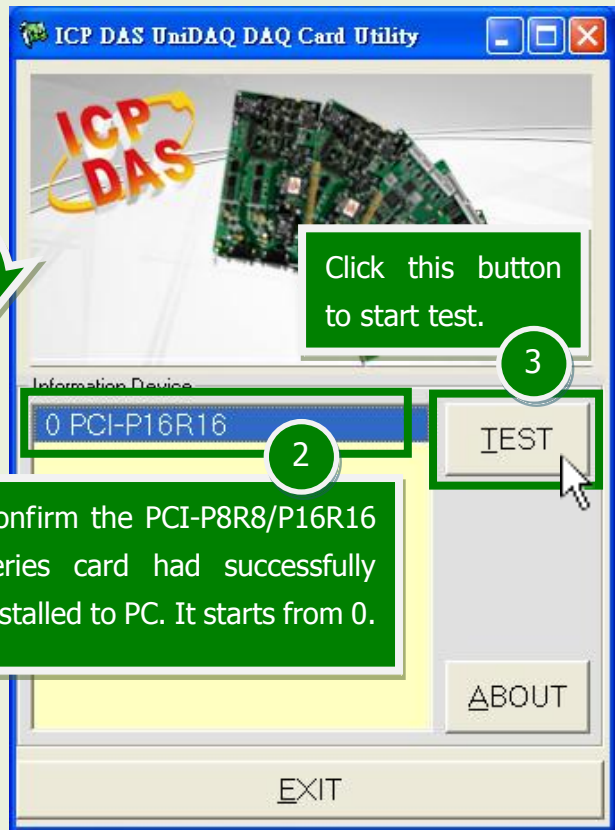
1. Use the DN-37 to connect the CON1 on board.
2. Connect the NO(0-7) with DIA(0-7).
(Pin1/4/7/20/23/25/27/10 connects to Pin12/13/14/15/16/17/18/19).
3. Power Supply (+24 V) connects to COM0...COM7 (Pin2/5/8/21/24/26/28/11).
4. Power Supply GND connects to GND (Pin29).
Power Supply GND connects to DIB0...DIB7 (Pin30/31/32/33/34/35/36/37).



4. Execute the UniDAQ Utility Program.

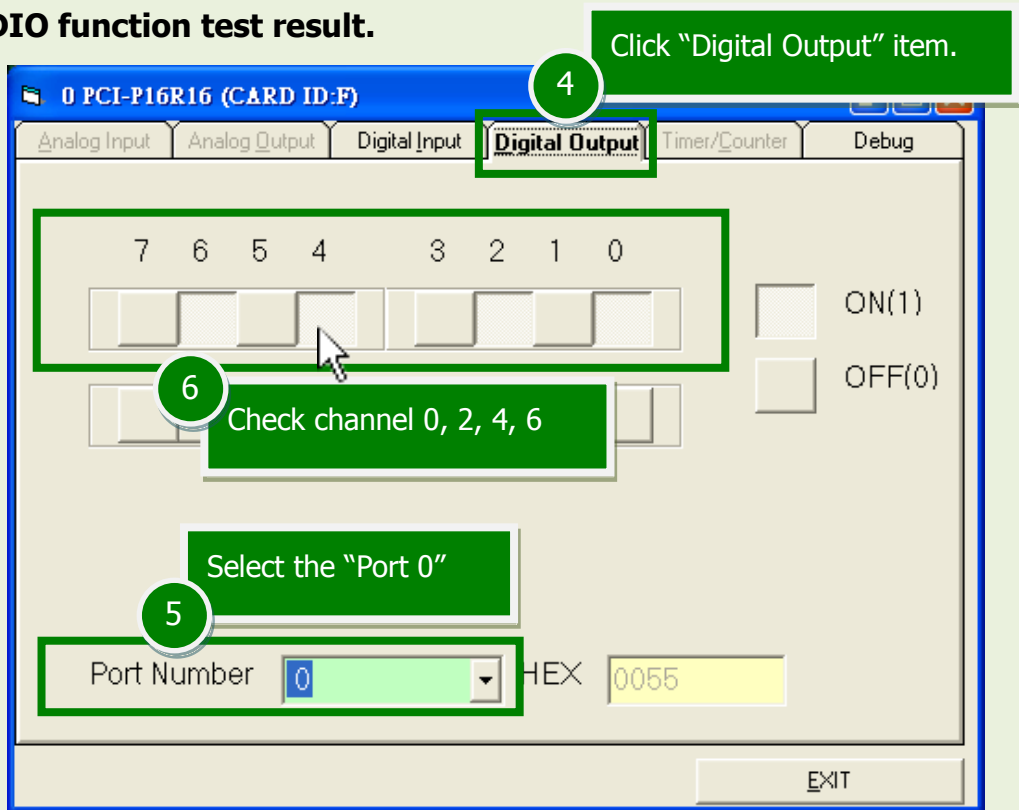
This program (UniDAQ Utility) will be placed in the default path after completing installation.

The UniDAQ Utility.exe is located in:
C:\ICPDAS\UniDAQ\Driver\
(Default path).



Confirm the PCI-P8R8/P16R16 series card had successfully installed to PC. It starts from 0.

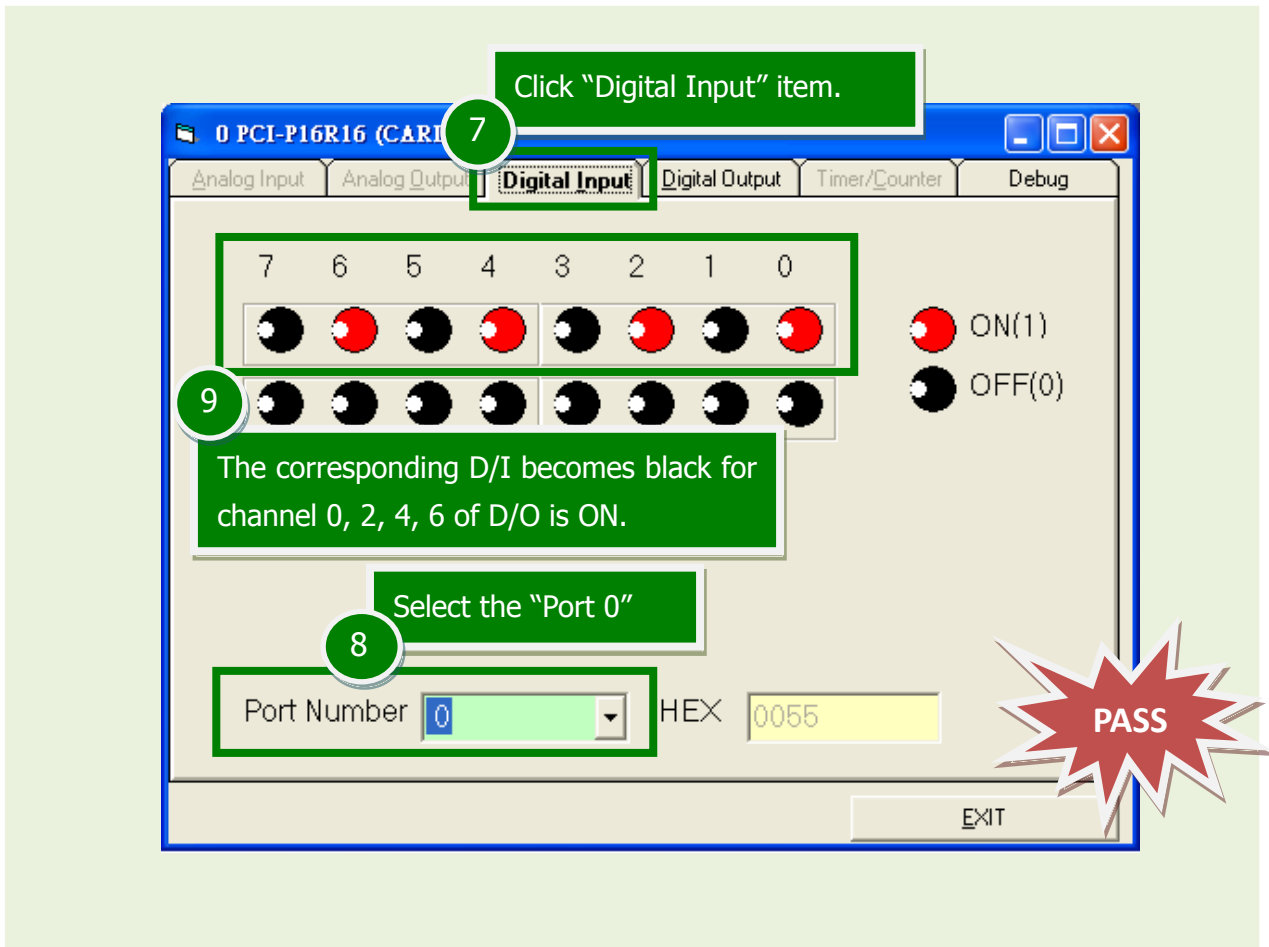
5. Get DIO function test result.



Check channel 0, 2, 4, 6

Select the "Port 0"

Click "Digital Output" item.



6 Related Information

- PCI-P8R8 and PCI-P16R16 Card Product Page:
http://www.icpdas.com/root/product/solutions/pc_based_io_board/pci/pci-p8r8.html
- DN-37, CA-3710 and DP-665 page (optional):
http://www.icpdas.com/products/DAQ/screw_terminal/dn_37.htm
http://www.icpdas.com/products/Accessories/power_supply/dp-665.htm
http://www.icpdas.com/products/Accessories/cable/cable_selection.htm
- Documentation and Software:
 CD:\NAPDOS\PCI\UniDAQ\
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/>