I/O CARD QUICK START GUIDE

for | PISO-P8R8(U/E)/P16R16(U/E) |

Language	English
Version	V1.1
Update	Feb.2009

1 What's on your package?

- ➢ One PISO-P8R8(U/E)/P16R16(U/E) series card
- ➢ One companion PCI CD (V4.2 or later)
- ➢ One Quick Start Guide(This document)

2 Installing Windows Driver

Follow those steps:

1. Setup the Windows driver.

   You can get the driver from:

   CD:\NAPDOS\PCI\PISO-DIO\DLL_OCX\Driver\

   http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/dll_ocx/driver/

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

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

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

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

3 Jumper & Card ID Setting

PISO-P8R8U/P16R16U
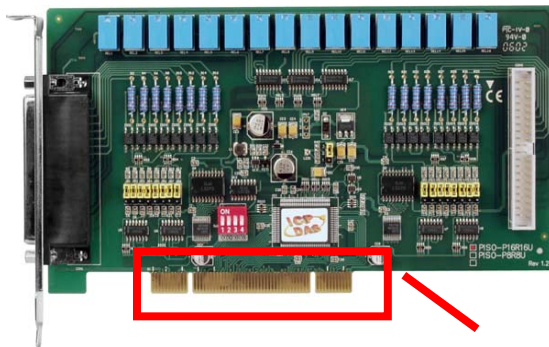
PISO-P8R8E/P16R16E

PCI Bus
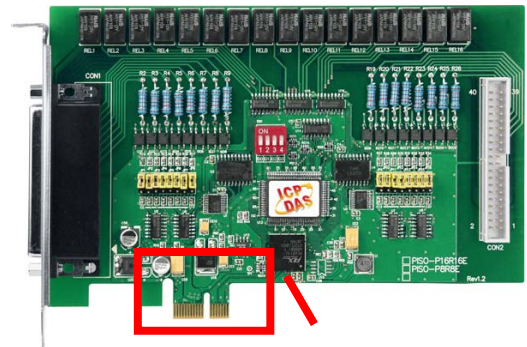
PCI-Express Bus

➤ SW1 Card ID Setting

SW1

ON

| 1 | 2 | 3 | 4 |

DI0   DI1   DI2   DI3

(Default Setting)

Card ID	1 DI0	2 DI1	3 DI2	4 DI3
0	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
:	:	:	:	:
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON

➢ AC Filter Jumpers

Jumper	Channel	Jumper	Channel
JP1	DI0	JP9	DI8
JP2	DI1	JP10	DI9
JP3	DI2	JP11	DI10
JP4	DI3	JP12	DI11
JP5	DI4	JP13	DI12
JP6	DI5	JP14	DI13
JP7	DI6	JP15	DI14
JP8	DI7	JP16	DI15
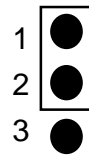
Without Filter For
DC Signal
(Default Setting)
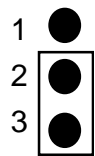
With AC Filter
For **AC** Signal

4 Installing Hardware on PC

Follow those steps:

1. Shut down and power off your computer.

2. Remove all covers from the computer.

3. Select an empty PCI slot or PCI-Express slot.

4. Plug the PISO-P8R8U/P16R16U card into PCI slot, Plug the PISO-P8R8E/P16R16E into PCI-Express slot.
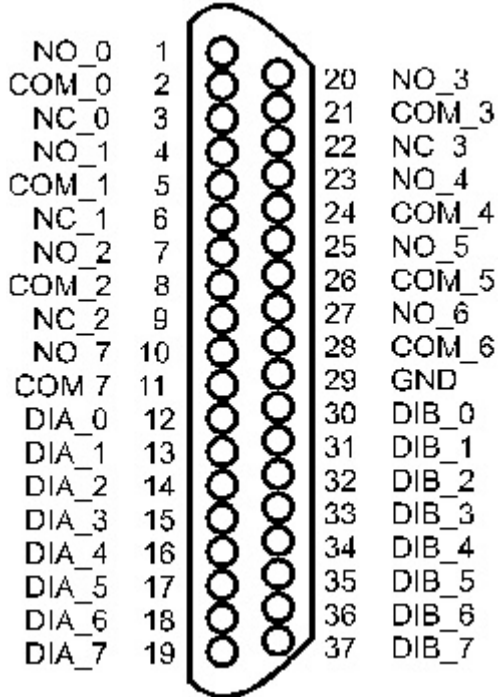
5. Replace the PC covers.

6. Power on the computer.

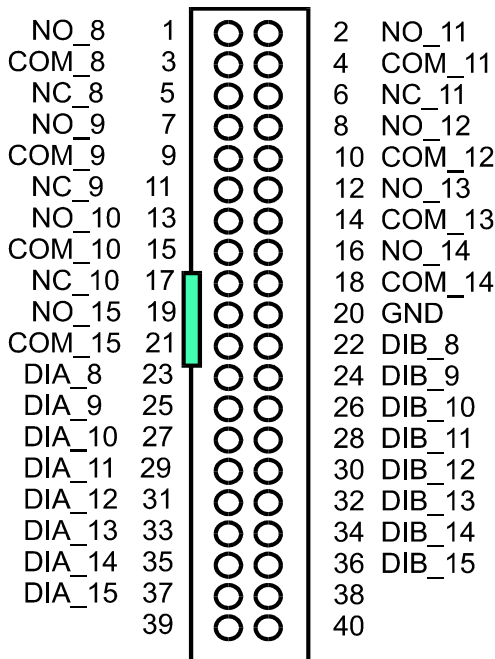After powering-on the computer, the Plug&Play card could work immediately.
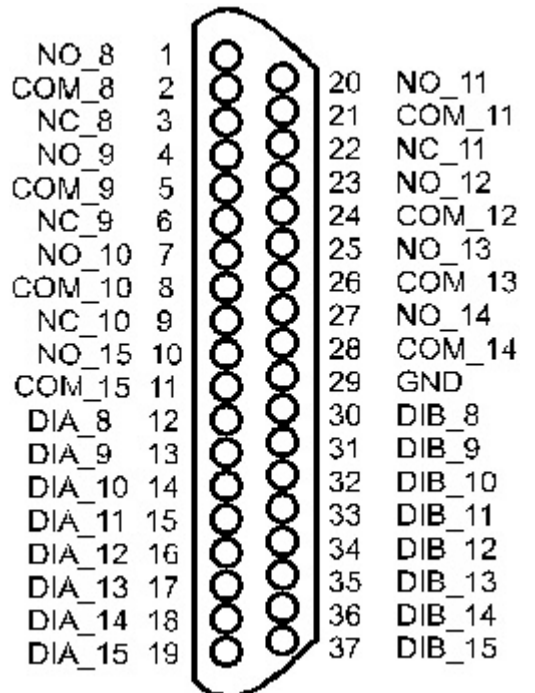
5 Pin Assignments

CON1 Pin Assignments

NO_0	1		20	NO_3
COM_0	2		21	COM_3
NC_0	3		22	NC_3
NO_1	4		23	NO_4
COM_1	5		24	COM_4
NC_1	6		25	NO_5
NO_2	7		26	COM_5
COM_2	8		27	NO_6
NC_2	9		28	COM_6
NO_7	10		29	GND
COM_7	11		30	DIB_0
DIA_0	12		31	DIB_1
DIA_1	13		32	DIB_2
DIA_2	14		33	DIB_3
DIA_3	15		34	DIB_4
DIA_4	16		35	DIB_5
DIA_5	17		36	DIB_6
DIA_6	18		37	DIB_7
DIA_7	19			

CON2 Pin Assignments

NO_8	1	2	NO_11
COM_8	3	4	COM_11
NC_8	5	6	NC_11
NO_9	7	8	NO_12
COM_9	9	10	COM_12
NC_9	11	12	NO_13
NO_10	13	14	COM_13
COM_10	15	16	NO_14
NC_10	17	18	COM_14
NO_15	19	20	GND
COM_15	21	22	DIB_8
DIA_8	23	24	DIB_9
DIA_9	25	26	DIB_10
DIA_10	27	28	DIB_11
DIA_11	29	30	DIB_12
DIA_12	31	32	DIB_13
DIA_13	33	34	DIB_14
DIA_14	35	36	DIB_15
DIA_15	37	38	
	39	40	

Extension cable:

DB-40-Pin conversion

DB-37-Pin

CON2 Pin Assignments

|				
NO_8	1		20	NO_11
COM_8	2		21	COM_11
NC_8	3		22	NC_11
NO_9	4		23	NO_12
COM_9	5		24	COM_12
NC_9	6		25	NO_13
NO_10	7		26	COM_13
COM_10	8		27	NO_14
NC_10	9		28	COM_14
NO_15	10		29	GND
COM_15	11		30	DIB_8
DIA_8	12		31	DIB_9
DIA_9	13		32	DIB_10
DIA_10	14		33	DIB_11
DIA_11	15		34	DIB_12
DIA_12	16		35	DIB_13
DIA_13	17		36	DIB_14
DIA_14	18		37	DIB_15
DIA_15	19			

6 Self-Test

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

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

3. Supply the External Power +24 V to CON1.NO0
   .... Supply the External Power +24 V to CON1.NO7

4. Supply the External Power GND to CON1.GND and
   CON1.DIB0…… CON1.DIB7.

5. Connect the CON1.COM0 with CON1.DIA0
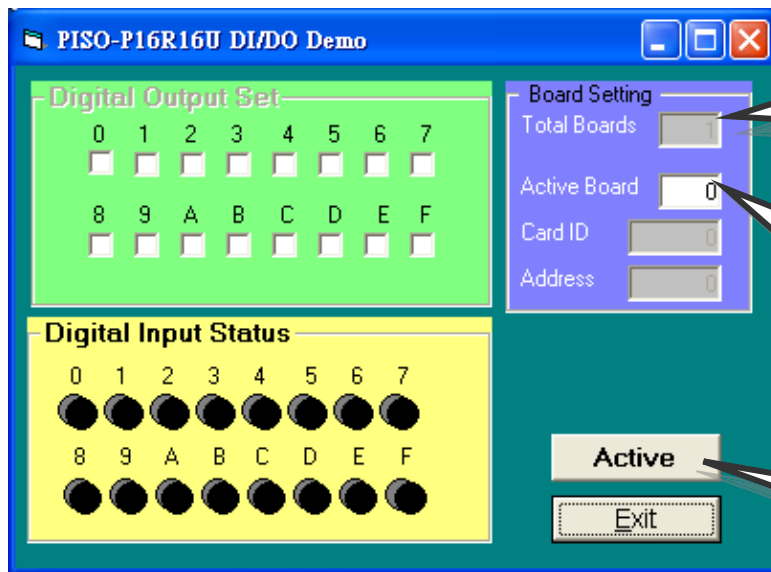   .... Connect the CON1.COM7 with CON1.DIA7.
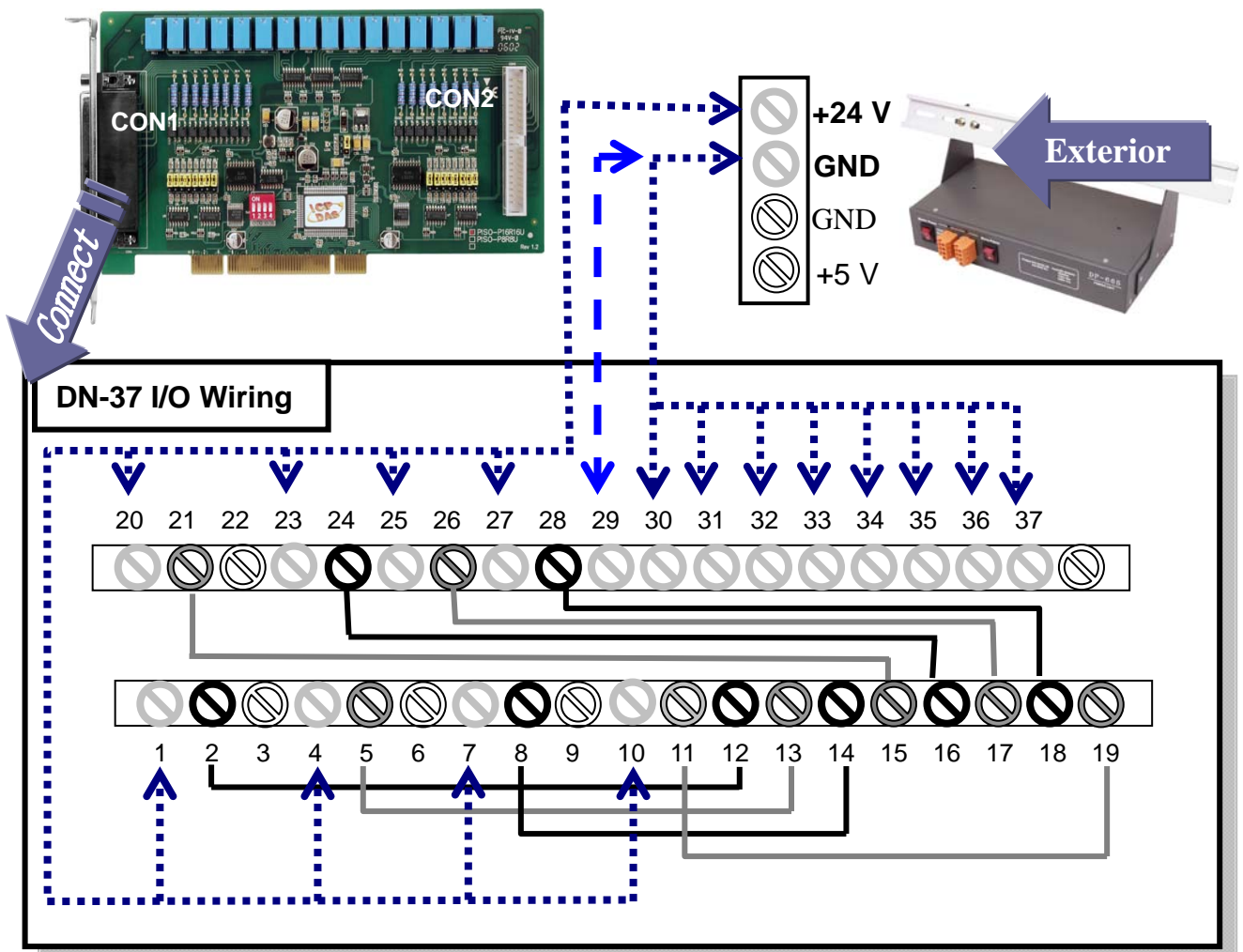
6. Run the PISO-P8R8(U/E)/P16R16(U/E) sample program.

Get the file from:

CD:\NAPDOS\PCI\PISO-DIO\DLL_OCX\Demo\
http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/dll_ocx/demo/

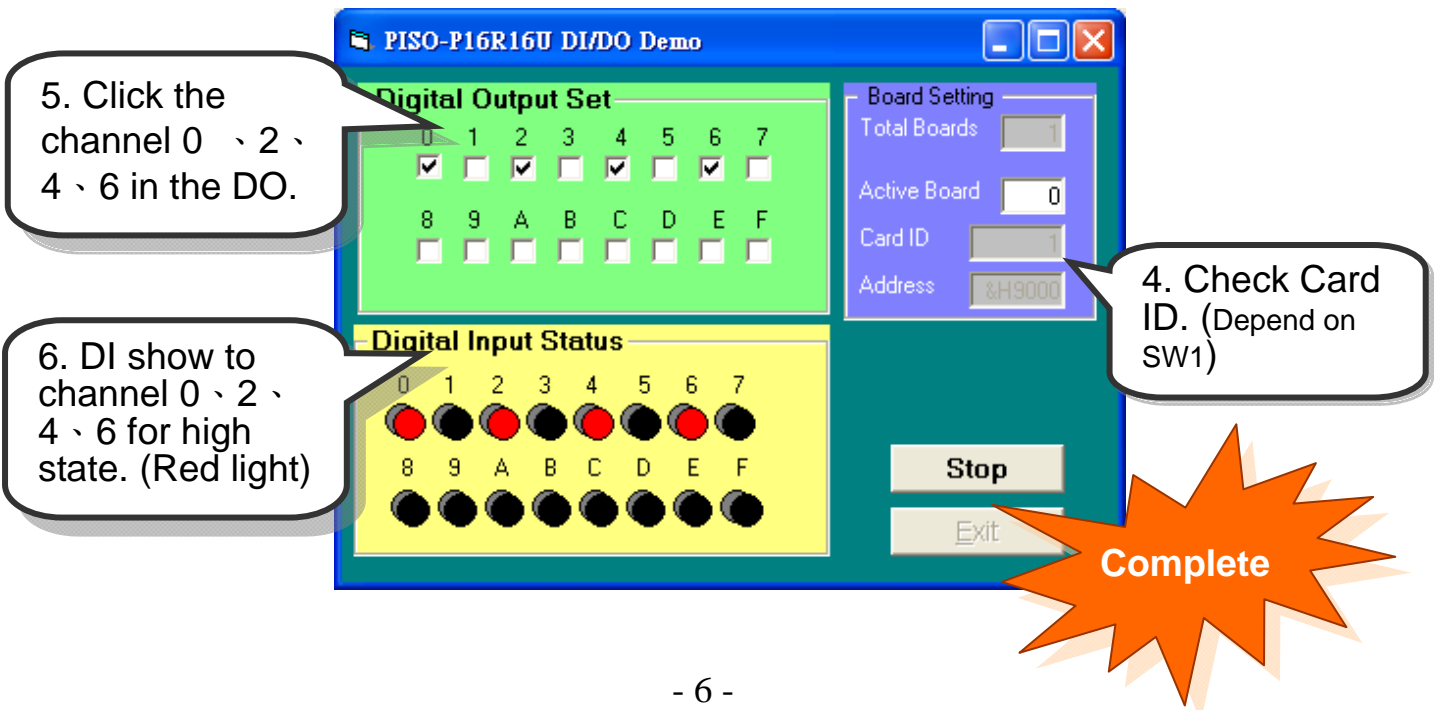## 7. Check number of the PISO-P8R8(U/E)/P16R16(U/E) and test DIO(0-7) function.

1. The one **PISO-P8R8(U/E)/P16R16(U/E)** had successfully installed to PC.

2. Select the board number for the **PISO-P8R8(U/E)/P16R16(U/E).** It starts from 0.

3. Click this button to do DIO test.

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

5. Click the channel 0 、2、4、6 in the DO.

6. DI show to channel 0、2、4、6 for high state. (Red light)

4. Check Card ID. (Depend on SW1)

Complete

7 Additional Information

- ✓ **PISO-P8R8(U/E)/P16R16(U/E) Series Card Product page:**

  http://www.icpdas.com/products/DAQ/pc_based/piso_p16r16u.htm

- ✓ **DP-665(Optional) page:**

  http://www.icpdas.com/products/Accessories/power_supply/dp-665.htm

- ✓ **DN-37(Optional) page:**

  http://www.icpdas.com/products/DAQ/screw_terminal/dn_37.htm

- ✓ **Documents:**

  CD:\NAPDOS\PCI\PISO-DIO\Manual

  http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/manual/

- ✓ **Software:**

  CD:\NAPDOS\PCI\PISO-DIO

  http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/

The ICP DAS Web Site

http://www.icpdas.com

- ■ Technical support
- ■ Supplies and ordering information
- ■ Ways to enhance your device
- ■ FAQ
- ■ Application story

Contact Us

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