



I/O CARD QUICK START GUIDE

for

PCI-1202LU/1202HU
PCI-1602U/1602FU

Language
Version
Update

English
V1.0
Jun.2009

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What's on your package?

- One PCI-1202LU/HU/1602U/FU series card
- One companion PCI CD (V3.6 or later)
- One Quick Start Guide(This document)

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Installing Windows Driver

Follow these steps:

1. Setup the Windows driver.

The driver is location at:

PCI-1202LU/HU :





CD:\NAPDOS\PCI\PCI-1202\DLL_OCX\

http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-1202/dll_ocx/

PCI-1602U/FU:

CD:\NAPDOS\PCI\PCI-1602\DLL_OCX\

http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-1602/dll_ocx/

2. Click the  button to start the installation.
3. Click the  button to install the driver into the default folder.
4. Click the  button to continue the installation.
5. Select the **“NO, I will restart my computer later”** and then click the  button.



The Windows driver only supports Windows 98/NT/2000 and XP/2003/Vista 32-bit versions.

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Installing Hardware on PC

Follow these steps:

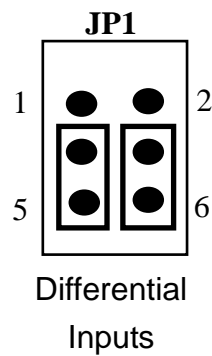
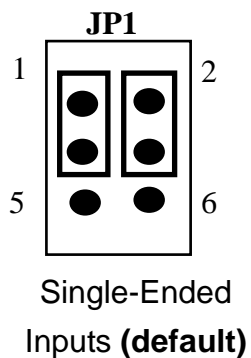
1. Shut down and power off your computer.
2. Remove the cover from the computer.
3. Select an unused PCI slot.
4. Carefully insert your I/O card into the PCI slot.
5. Replace the PC cover.
6. Power on the computer.

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

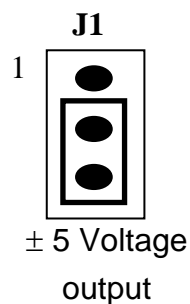
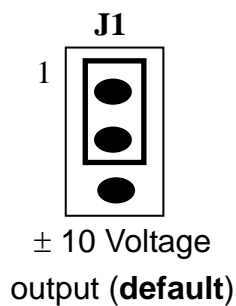
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Jumper Setting

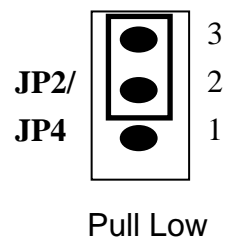
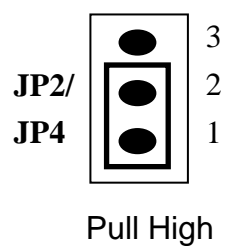
➤ JP1 : A/D Input Type Selection



➤ J1 : D/A Reference Voltage Selection



➤ D/I Port Setting (JP2: PCI-1202LU/HU, JP4: PCI-1602U/FU)



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Pin Assignments

- CN1: Digital Output connector.

Pin	Name	Pin	Name
1	Digital output 0	2	Digital output 1
3	Digital output 2	4	Digital output 3
5	Digital output 4	6	Digital output 5
17	Digital output 6	8	Digital output 7
9	Digital output 8	10	Digital output 9
11	Digital output 10	12	Digital output 11
13	Digital output 12	14	Digital output 13
15	Digital output 14	16	Digital output 15
17	PCB ground	18	PCB ground
19	PCB +5 V	20	PCB +12 V

- CN2: Digital Input connector.

Pin	Name	Pin	Name
1	Digital input 0	2	Digital input 1
3	Digital input 2	4	Digital input 3
5	Digital input 4	6	Digital input 5
7	Digital input 6	8	Digital input 7
9	Digital input 8	10	Digital input 9
11	Digital input 10	12	Digital input 11
13	Digital input 12	14	Digital input 13
15	Digital input 14	16	Digital input 15
17	PCB ground	18	PCB ground
19	PCB +5 V	20	PCB +12 V

➤ CN3: Single-Ended/Differential Input.

Pin	Name	Pin	Name
1	Analog input 0/0+	20	Analog input 16/0-
2	Analog input 1/1+	21	Analog input 17/1-
3	Analog input 2/2+	22	Analog input 18/2-
4	Analog input 3/3+	23	Analog input 19/3-
5	Analog input 4/4+	24	Analog input 20/4-
6	Analog input 5/5+	25	Analog input 21/5-
7	Analog input 6/6+	26	Analog input 22/6-
8	Analog input 7/7+	27	Analog input 23/7-
9	Analog input 8/8+	28	Analog input 24/8-
10	Analog input 9/9+	29	Analog input 25/9-
11	Analog input 10/10+	30	Analog input 26/10-
12	Analog input 11/11+	31	Analog input 27/11-
13	Analog input 12/12+	32	Analog input 28/12-
14	Analog input 13/13+	33	Analog input 29/13-
15	Analog input 14/14+	34	Analog input 30/14-
16	Analog input 15/15+	35	Analog input 31/15-
17	Analog ground	36	Analog output 1
18	Analog output 0	37	Digital ground
19	External trigger		

The detail pin assignments information. Please refer to :

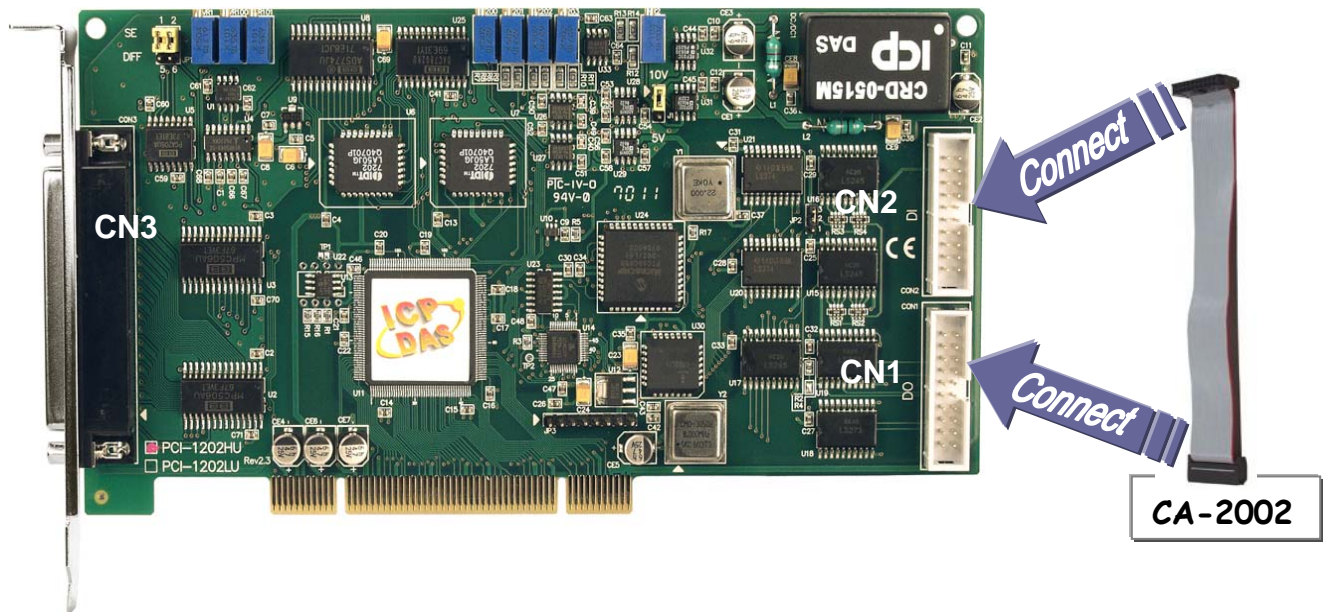
CD:\NAPDOS\PCI\PCI-1602\Manual\PCI-1202_1602_180x_hardware_manual.pdf

http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-1602/manual/pci-1202_1602_180x_hardware_manual.pdf

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Self-Test

1. Use the CA-2002(Optional) to connect CN1 to CN2.



2. Execute the DIO sample program.

The sample program is contained in zip file which is located at:

PCI-1202LU/HU:

CD:\NAPDOS\PCI\PCI-1202\DLL_OCX\Demo\

http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-1202/dll_ocx/demo/

PCI-1602U/FU:

CD:\NAPDOS\PCI\PCI-1602\DLL_OCX\Demo\

http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-1602/dll_ocx/demo/

3. Check the board number of the PCI-1202LU/HU, PCI-1602U/FU and test DIO functions.

The screenshot shows the 'Digital I/O' software window. At the top, there are two dropdown menus: 'Total Board' set to '1' and 'Active Board' set to '0'. To the right of these are buttons for 'Active' (with a green arrow icon) and 'Exit'. Below the dropdowns, the interface is divided into two main sections: 'Digital Output' and 'Digital Input'. Each section contains a grid of 16 buttons labeled 0-7 and A-F. To the right of these grids are two text boxes: 'Input Value(HEX)' and 'Output Value(HEX)'. Three callout boxes provide instructions: Callout 1 points to the 'Total Board' dropdown; Callout 2 points to the 'Active Board' dropdown; Callout 3 points to the 'Active' button.

1: The one PCI-1202LU/HU/1602U/FU card has been successfully installed in PC.

2: Select the board number for the PCI-1202LU/HU/1602U/FU. It starts from 0.

3: Click this button to do DIO function test.

4. Get DIO function test result.

This screenshot shows the 'Digital I/O' software window after a test. The 'Total Board' dropdown is still '1', but the 'Active Board' dropdown is now '0'. The 'Active' button has been replaced by a 'STOP' button (with a green square icon). The 'Digital Output' grid shows that buttons 0, 2, 4, and 6 are illuminated with red lights. The 'Digital Input' grid shows that buttons 0, 2, 4, and 6 are also illuminated with red lights. The 'Input Value(HEX)' and 'Output Value(HEX)' boxes both display the value '55'. Two callout boxes provide instructions: Callout 4 points to the red-lit output buttons 0, 2, 4, and 6; Callout 5 points to the red-lit input buttons 0, 2, 4, and 6. A large orange starburst graphic with the word 'Complete' is located at the bottom right.

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

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

Complete

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Additional Information

- ✓ PCI-1202LU/HU/1602U/FU Series Card Product page:

http://www.icpdas.com/products/DAQ/pc_based/pci_1202.htm

http://www.icpdas.com/products/DAQ/pc_based/pci_1602.htm

- ✓ CA-2002(Optional) page:

http://www.icpdas.com/products/Accessories/cable/cable_selection.htm

- ✓ Documentation:

CD:\NAPDOS\PCI\PCI-1202\Manual

CD:\NAPDOS\PCI\PCI-1602\Manual

<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-1202/manual/>

<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-1602/manual/>

- ✓ Software:

CD:\NAPDOS\PCI\PCI-1202

CD:\NAPDOS\PCI\PCI-1602

<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-1202/>

<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-1602/>

The ICP DAS Web Site

<http://www.icpdas.com>



- Technical support
- Supplies and ordering information
- Methods of enhancing your device
- FAQ
- Application story

Contact Us

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