



# I/O CARD QUICK START GUIDE

for

**DIO-64**

*Language*  
*Version*  
*Update*

English  
V1.2  
Nov.2008

# 1

## What's on your package?

- One DIO-64 series card
- One companion ISA CD (V2.1 or later)
- One Quick Start Guide(This document)

# 2

## Installing Windows Driver

### Follow those steps:




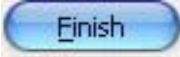
1. Setup the Windows driver. You can get the driver from:

CD:\NAPDOS\ISA\DIO\DLL\

<http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/dio/dll/>



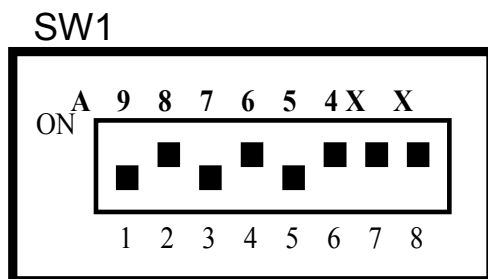
Windows driver only support windows 98/NT/2000 and XP/2003/vista 32-bit versions.

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

# 3

## I/O Base Address & Interrupt Setting

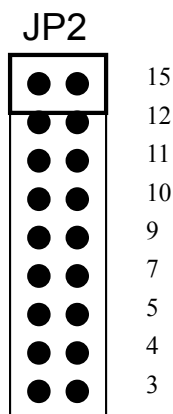
- The base address is set from SW1 DIP switch on board: (Default setting for 2A0)



(\* ) Default Setting

I/O address	1 A9	2 A8	3 A7	4 A6	5 A5	6 A4
200-20F	OFF	ON	ON	ON	ON	ON
.....						
<b>2A0-2AF (*)</b>	OFF	ON	OFF	ON	OFF	OFF
.....						
3F0-3FF	OFF	OFF	OFF	OFF	OFF	OFF

- The Interrupt Level Setting



Default setting : IRQ15

# 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 ISA slot
4. Carefully insert your I/O card into the ISA slot
5. Replace the PC covers
6. Power on the computer

After powering-on the computer, continue next process.

# 5

## Adding Hardware



Adding hardware is used on Windows 2000/XP/2003/Vista 32 only. Windows 9X/Me/NT users can skip it.

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### 7. Add Hardware

- 7-1 Open the **“Control Panel”** by click the item **“Start / Settings / Control Panel”**.
- 7-2 Double-click the item **“Add/Remove Hardware”** and Click the **“Next >”** button.
- 7-3 Select the item **“Add/Troubleshoot a device”** and click the **“Next >”** button.
- 7-4 Select the item **“Add a new device”** and click the **“Next >”** button.

- 7-5 Select the item **“No, I want to select the hardware from a list”** and click the **“Next >”** button.
- 7-6 Select the item **“Other device”** and click the **“Next >”** button.
- 7-7 Click the **“Have Disk...”** button.
- 7-8 Click the **“Browse...”** button to select the **Inf** file default path is C:\DAQPRO\DIO\_Win2K\Inf and click the **“OK”** button.
- 7-9 Select the correct device from the **“Models:”** listbox and Click the **“Next >”** button.
- 7-10 The windows show to dialog box and Click the **“OK”** button to enter the device’s properties settings.

## 8. Modify the device properties

**1. Select Input/Output Range**

**2. Click “Change Setting” to change I/O Range (Depend on I/O Base Address)**

**3. Select Interrupt Request**

**4. Click “Change Setting” to change Interrupt Request. (Depend on Interrupt Level setting)**

**5. No devices are conflicting**

**6. No devices are conflicting**

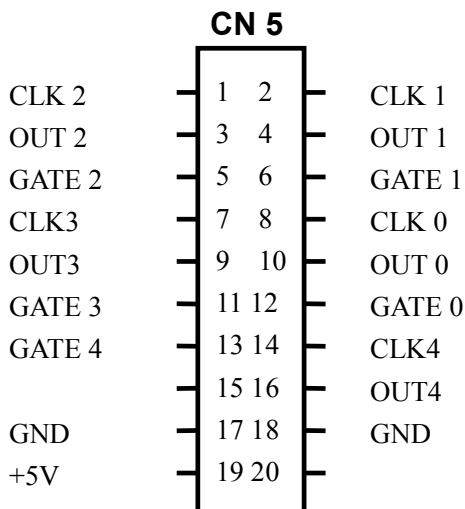
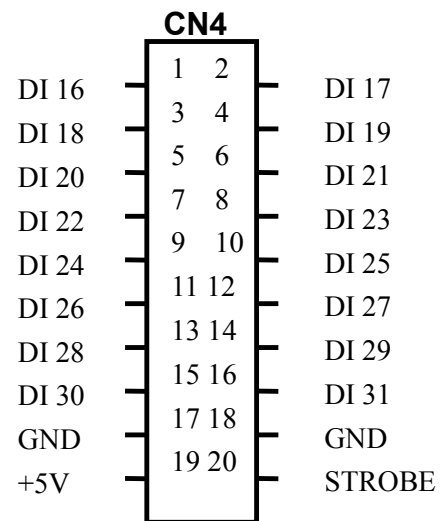
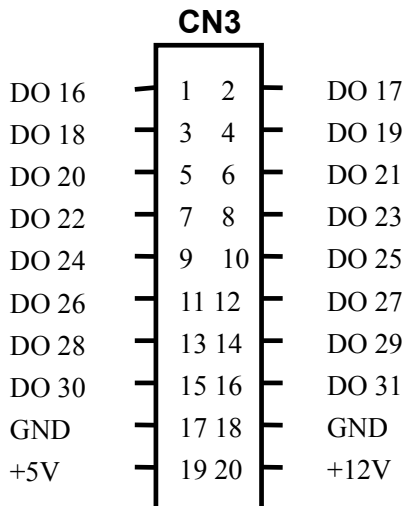
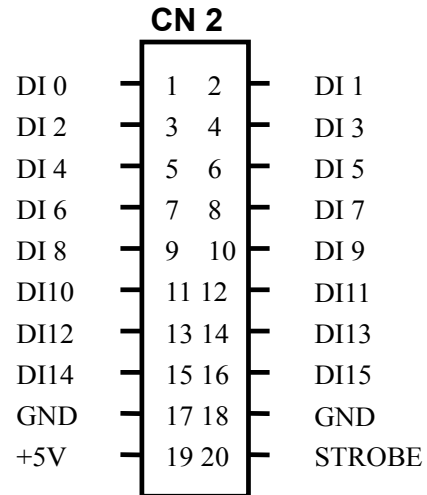
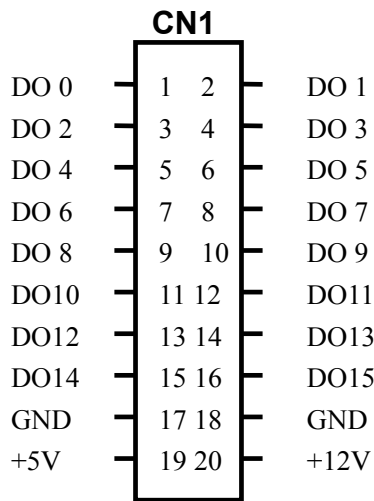
## 9. Reboot the PC

The detail “add hardware” information. Please refer to

CD:\NAPDOSISA\Manual\PCI\_ISA\_PnP\_Driver\_Installation\_in\_Win9x\_2K\_XP.pdf

# 6

## Pin Assignments



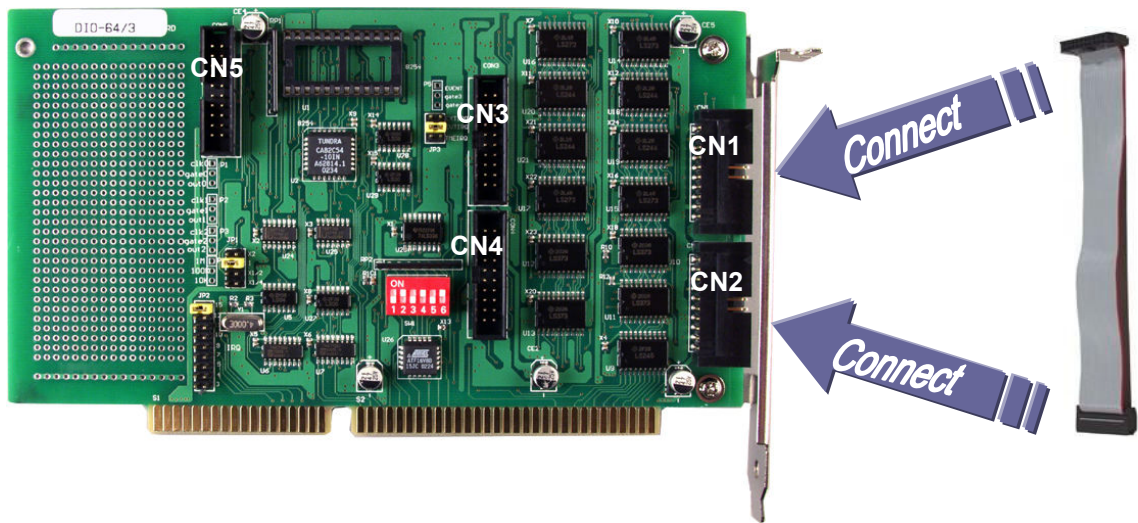
**CN1,CN2 and CN3,CN4 are TTL compatible**

TTL Range	
High(1)	2.4V ~5.0V (Voltages over 5.0V will damage the device)
None Defined	2.4V~0.8V
Low(0)	Under 0.8V

# 7

## Self-Test

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



2. Run the DIO-64 sample program.  
Get the file from(Default):  
C:\DAQPro\DIO\_WinXXX\Demo\

### 3. Check number of the DIO-64, and test DIO function.

The screenshot shows the 'DIO-64 - Digital I/O ...' window. It has three main sections: 'Configuration Setting', 'Digital Output Set', and 'Digital Input Status'. The 'Configuration Setting' section includes a 'Channel' dropdown menu set to 'Ch 0~7', a 'Total Boards' field with the value '1', and a 'Select' field with the value '0'. The 'Digital Output Set' section contains seven checkboxes labeled 0 through 6, all of which are currently unchecked. The 'Digital Input Status' section contains seven indicator lights labeled 0 through 6, all of which are currently black. At the bottom of the window are two buttons: 'Active' and 'Exit'.

1. The one DIO64 had successfully installed to PC.

2. Select the board number for the DIO64. It starts from 0.

3. Select the channel number for testing.

4. Click this button to do DIO test.

### 4. Get DIO function test result.

The screenshot shows the 'DIO-64 - Digital I/O ...' window after a test. The 'Configuration Setting' section remains the same. In the 'Digital Output Set' section, checkboxes for channels 0, 2, 4, and 6 are now checked. In the 'Digital Input Status' section, the indicator lights for channels 0, 2, 4, and 6 are now red, while channels 1, 3, 5, and 6 are black. The 'Active' button has been replaced by a 'Stop' button. A large orange starburst graphic with the word 'Complete' is positioned at the bottom right of the window.

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)

Complete

# 8

## Additional Information

✓ **DIO-64 Series Card Product page:**

[http://www.icpdas.com/products/DAQ/pc\\_based/dio\\_64.htm](http://www.icpdas.com/products/DAQ/pc_based/dio_64.htm)

✓ **CA-2002(Optional) page:**

[http://www.icpdas.com/products/Accessories/cable/cable\\_selection.htm](http://www.icpdas.com/products/Accessories/cable/cable_selection.htm)

✓ **Documents:**

CD:\NAPDOS\ISA\DIO>manual

<http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/DIO/manual/>

✓ **Software:**

CD:\NAPDOS\ISA\DIO

<http://www.icpdas.com/download/isa/dio/index.htm>

### The ICP DAS Web Site

<http://www.icpdas.com>



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- FAQ
- Application story

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