



I/O CARD QUICK START GUIDE

for **A-823PGH/PGL**

<i>Language</i>	English
<i>Version</i>	V1.1
<i>Update</i>	Nov.2008

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What's on your package?

- One A-823 series card
- One companion ISA CD (V2.1 or later)
- One Quick Start Guide(This document)

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Installing Windows Driver

Follow those steps:




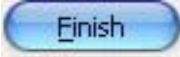
1. Setup the Windows driver. You can get the driver from:

CD:\NAPDOS\ISA\A823\DLL\

<http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/a823/dll/>



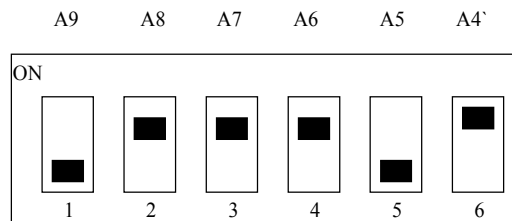
Windows driver only support windows 98/NT/2000 and XP/2003/vista 32-bit versions.

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.

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I/O Base Address & Interrupt Setting

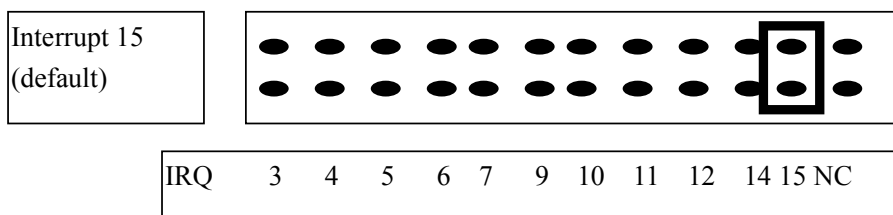
- The base address is set from SW1 DIP switch on board:



SW1 : BASE ADDRESS (☑) : default base address is 0x220

BASE ADDR	A9	A8	A7	A6	A5	A4
200-20F	OFF	ON	ON	ON	ON	ON
210-21F	OFF	ON	ON	ON	ON	OFF
220-22F(☑)	OFF	ON	ON	ON	OFF	ON
230-23F	OFF	ON	ON	ON	OFF	OFF
⋮	⋮	⋮	⋮	⋮	⋮	⋮
300-30F	OFF	OFF	ON	ON	ON	ON
3F0-3FF	OFF	OFF	OFF	OFF	OFF	OFF

- The Interrupt Level Setting



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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.

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Adding Hardware



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

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:\DAQPROVA823_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

The image shows a sequence of four windows from the Windows 2000/XP hardware installation process:

- 1. Select Input/Output Range:** The main 'ICPDAS A-823 Analog/Digital Card Properties' dialog box, 'Resources' tab. The 'Input/Output Range' is set to '0220 - 022F'. A callout points to this setting.
- 2. Click “Change Setting” to change I/O Range (Depend on I/O Base Address):** The 'Edit Input/Output Range' dialog box. The 'Value' is '0220 - 022F'. A callout points to the 'Change Setting...' button.
- 3. Select Interrupt Request:** The main 'ICPDAS A-823 Analog/Digital Card Properties' dialog box. The 'Interrupt Request' is set to '09'. A callout points to this setting.
- 4. Click “Change Setting” to change Interrupt Request. (Depend on Interrupt Level setting):** The 'Edit Interrupt Request' dialog box. The 'Value' is '07'. A callout points to the 'Change Setting...' button.

Both 'Edit' dialog boxes show a 'Conflict information' section with a red box around the text 'No devices are conflicting'.

9. Reboot the PC

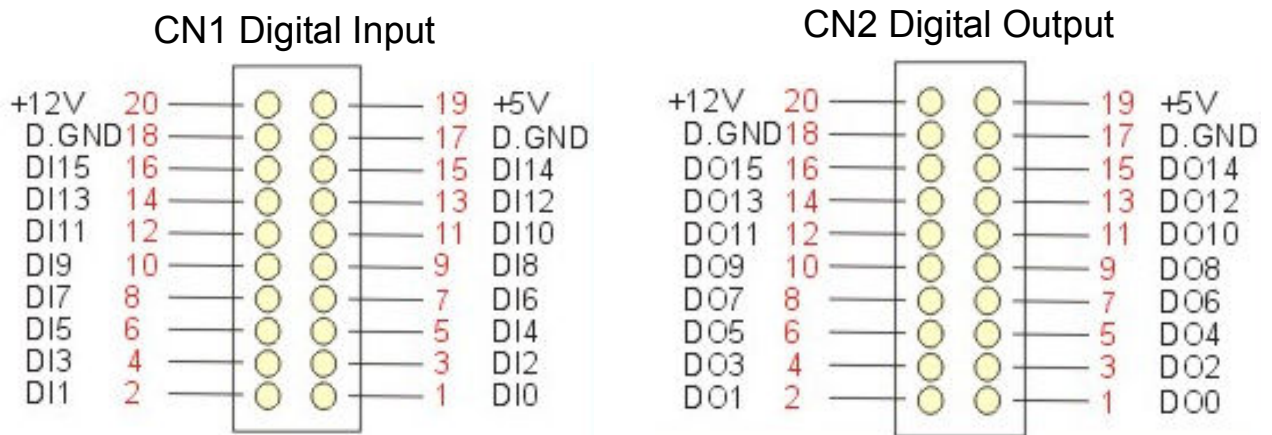
The detail “add hardware” information. Please refer to:

CD:\NAPDOS\ISA\Manual\PCI_ISA_PnP_Driver_Installation_in_Win9x_2K_XP.pdf

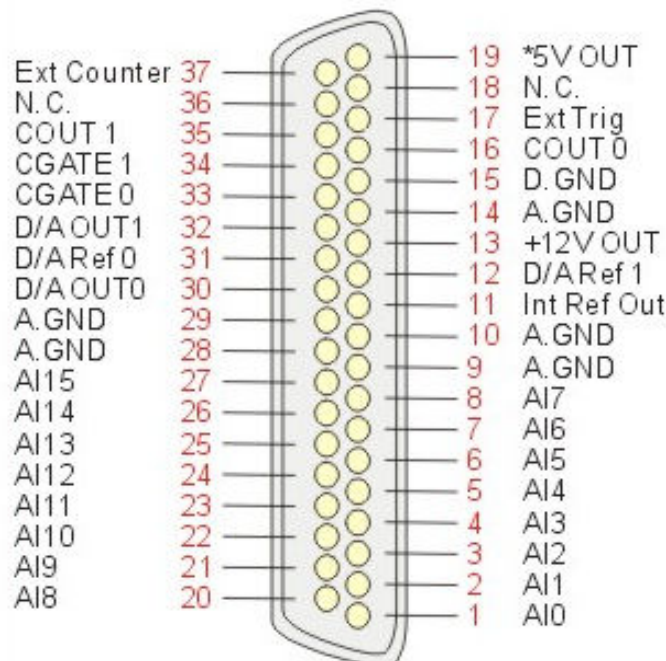
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Pin Assignments

- CN1,CN2 Digital Input/Output Connector.



- CN3 Analog Input/Output/Timer/Counter Connector.



The detail pin assignments information. Please refer to :

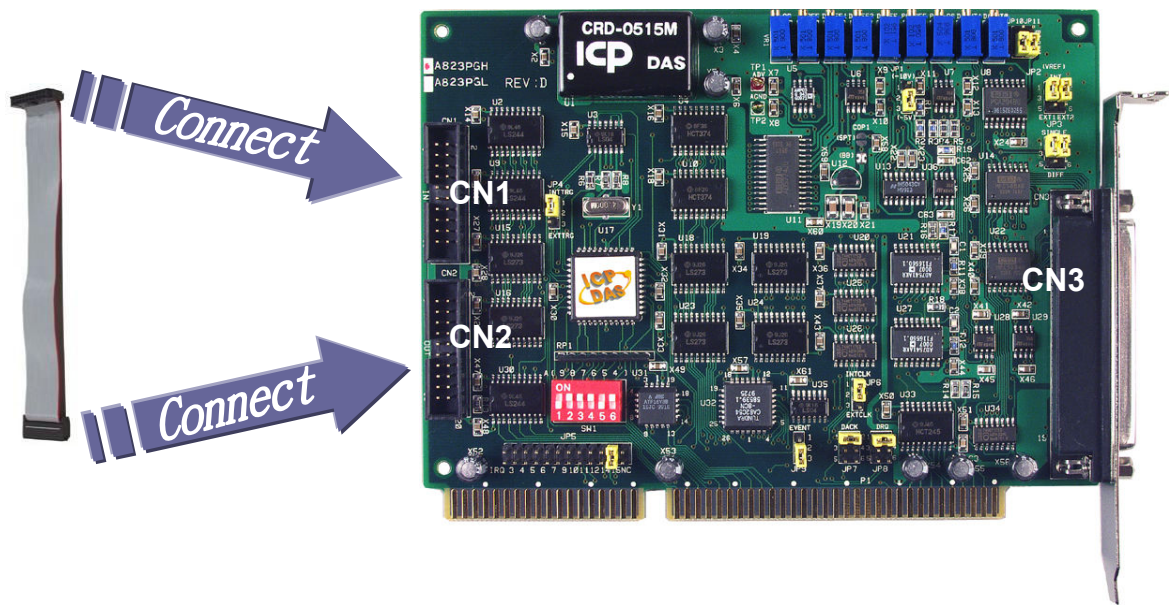
CD:\NAPDOSISA/A823/Manual/823.pdf

<http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/a823/manual/823.pdf>

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Self-Test

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



2. Run the A-823 sample program.

Get the file from(Default):

C:\DAQPro\A823_WINxx\DEMO

3. Check number of the A-823, and test DIO function.

The screenshot shows the 'DI/DO Demo' software window. It features a 'Board Setting' panel on the right with 'Total' set to 1 and 'Active' set to 0. Below this are 'Active' and 'Exit' buttons. The main area is divided into 'Digital Output Set' (checkboxes) and 'Digital Input Status' (LED indicators).

1. The one A-823 had successfully installed to PC.

2. Select the board number for the A-823. It starts from 0.

3. Click this button to do DIO test.

4. Get DIO function test result.

The screenshot shows the 'DI/DO Demo' software window after the test. In the 'Digital Output Set' panel, channels 0, 2, 4, and 6 are checked. In the 'Digital Input Status' panel, the LEDs for channels 0, 2, 4, and 6 are lit red, indicating a high state.

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

✓ **A-823 Series Card Product page:**

http://www.icpdas.com/products/DAQ/pc_based/a-823.htm

✓ **CA-2002(Optional) page:**

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

✓ **Documents:**

CD:\NAPDOS\ISA\A823\manual

<http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/a823/manual/>

✓ **Software:**

CD:\NAPDOS\ISA\A823

<http://www.icpdas.com/download/isa/a823/index.htm>

The ICP DAS Web Site

<http://www.icpdas.com>



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