



# I/O CARD QUICK START GUIDE

for **A-822 Series**

語言  
版本  
更新日期

繁體中文  
V1.2  
Nov.2008

## 1

### 檢查配件

- 一張 A-822 系列板卡
- 一張安裝軟體光碟( V2.1 或更新版本)
- 一張快速入門指南(本文件)

## 2

### 安裝 Windows 驅動程式

請依照下列步驟:

#### I. 執行 Windows 驅動程式安裝程式.



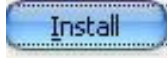
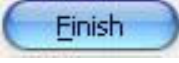
驅動程式位置:

CD:\NAPDOS\ISA\A822\DLL\_OCX\

[http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/A822/dll\\_ocx/](http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/A822/dll_ocx/)



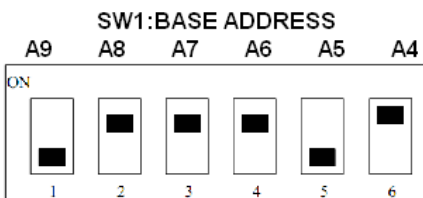
Windows 驅動程式只支援 windows 98/NT/2000 及 XP/2003/Vista 32-bit 版本

- II. 按  按鈕並開始安裝
- III. 按  按鈕並選擇安裝路徑
- IV. 按  按鈕繼續安裝程序
- V. 選擇 “NO, I will restart my computer later” 並且按  按鈕。

# 3

## I/O 位址/中斷資源設定

### ➤ 設定 I/O 位址

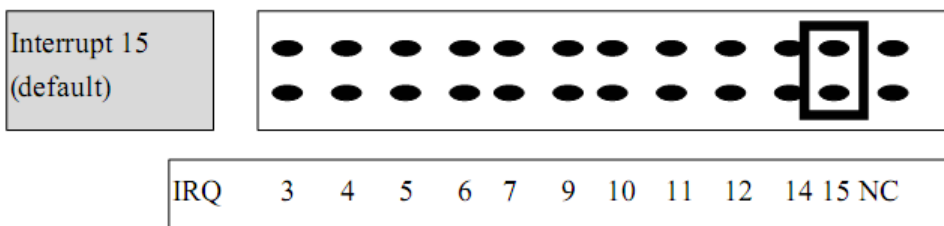


預設 I/O 位址 : 220

SW1: BASE ADDRESS VALUE TABLE (☑): 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

### ➤ 設定中斷資源



# 4

## 安裝硬體裝置

請依照下列步驟：

1. 關掉電腦電源
2. 打開電腦機殼
3. 選擇未使用的 ISA 插槽，並移除保護裝置
4. 小心插入板卡至 ISA 插槽中，並以螺絲固定住
5. 裝回電腦機殼
6. 啟動電腦電源

在啟動電腦，進入 Windows 後繼續進行下一步驟。

# 5

## 新增硬體裝置



Windows 2000/XP/2003/Vista32 的使用者需進行此步驟，  
Windows9x/ME/NT 的使用者請省略此步驟。

### 7. 新增硬體

- 7-1 單擊“開始 / 設定 / 控制台”來開啓控制台。
- 7-2 雙擊“新增/移除硬體”並且按“下一步>”按鈕。
- 7-3 選擇“是的，我已連接硬體”並且按“下一步 >”按鈕。
- 7-4 選擇“新增硬體裝置”並且按“下一步 >”按鈕。
- 7-5 選擇“安裝我從清單中手動選取的硬體(進階選項)”並且按“下一步 >”按鈕。

7-6 選擇“其它裝置”並且按“下一步 >” 按鈕。

7-7 單擊“從磁片安裝” 按鈕。

7-8 單擊“瀏覽…” 按鈕，選擇 **Inf** 檔案，預設路徑在 C:\DAQPro\A822\_WIN2K\Inf 並且按“確定” 按鈕。

7-9 從“機型:” 列表框中選擇您的裝置並且按“下一步 >” 按鈕。

7-10 Windows 會顯示對話框，請按“確定” 按鈕，進入裝置屬性設定。

## 8. 修改裝置屬性

The image shows a sequence of four screenshots illustrating the steps to modify device properties for an ICPDAS A-822 Analog/Digital Card. The main window is titled "ICPDAS A-822 Analog/Digital Card Properties" and has tabs for "General", "Driver", and "Resources".

- Step 1:** A callout bubble points to the "Input/Output Range" entry in the "Resource settings" list, which is currently set to "0220 - 022F".
- Step 2:** A callout bubble points to the "Change Setting..." button next to the "Input/Output Range" entry.
- Step 3:** A callout bubble points to the "Interrupt Request" entry in the "Resource settings" list, which is currently set to "07".
- Step 4:** A callout bubble points to the "Change Setting..." button next to the "Interrupt Request" entry.

Two smaller dialog boxes are shown on the right, each with a callout bubble:

- The top dialog is titled "Edit Input/Output Range". It shows the "Value" field set to "0220 - 022F". Below the field, the "Conflict information" section states "The setting you have chosen does not conflict with any other devices." and a red box highlights the text "No devices are conflicting".
- The bottom dialog is titled "Edit Interrupt Request". It shows the "Value" field set to "07". Below the field, the "Conflict information" section states "The setting you have chosen does not conflict with any other devices." and a red box highlights the text "No devices are conflicting".

## 9. 重新開機

更詳細的“新增硬體”資訊，請參考

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

# 6

## 腳位定義

### CN1

DI 0	1	2	DI 1
DI 2	3	4	DI 3
DI 4	5	6	DI 5
DI 6	7	8	DI 7
DI 8	9	10	DI 9
DI 10	11	12	DI 11
DI 12	13	14	DI 13
DI 14	15	16	DI 15
D.GND	17	18	D.GND
5V +	19	20	12V +

### CN2

DO 0	1	2	DO 1
DO 2	3	4	DO 3
DO 4	5	6	DO 5
DO 6	7	8	DO 7
DO 8	9	10	DO 9
DO 10	11	12	DO 11
DO 12	13	14	DO 13
DO 14	15	16	DO 15
D.GND	17	18	D.GND
5V +	19	20	12V +



### CN3

Pin	Description	Pin	Description
1	AI 0/+	20	AI 8/+
2	AI 1/+	21	AI 9/+
3	AI 2/+	22	AI 10/+
4	AI 3/+	23	AI 11/+
5	AI 4/+	24	AI 12/+
6	AI 5/+	25	AI 13/+
7	AI 6/+	26	AI 14/+
8	AI 7/+	27	AI 15/+
9	Analog GND(-)	28	Analog GND(-)
10	Analog GND(-)	29	Analog GND(-)
11	D/A internal -5/-10V reference Output	30	D/A channel 0 output
12	D/A channel 1 external reference input	31	D/A channel 0 external reference input
13	PCB +12V	32	D/A channel 1 output
14	Analog GND(-)	33	User timer/counter GATE control input
15	Analog GND(-)	34	Timer/counter 1&2 GATE control input
16	User timer/counter output	35	Timer/counter 1 output
17	Ext trigger source input/TTL	36	Reserved
18	Reserved	37	User timer/counter EXT clock input
19	PCB +5V		

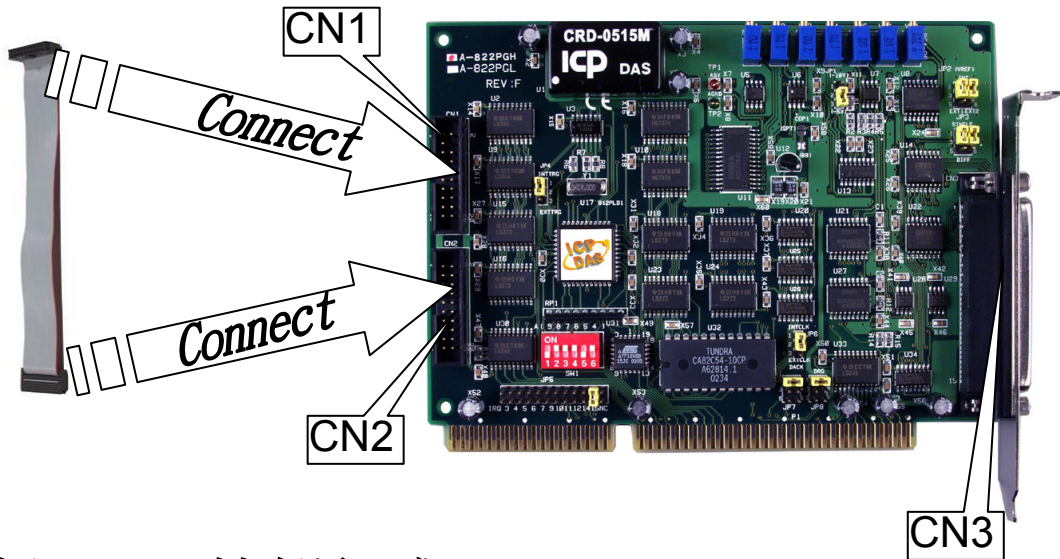
### TTL 範圍

高(1)	2.4V ~ 5.0V (超過 5.0V 會造成設備毀損)
未定義	2.4V~0.8V
低(0)	低於 0.8V

# 7

## 自我測試

- I. 使用 CA-2002(Optional) 將 CN1 與 CN2 對接。



- II. 執行 DIO 範例程式。

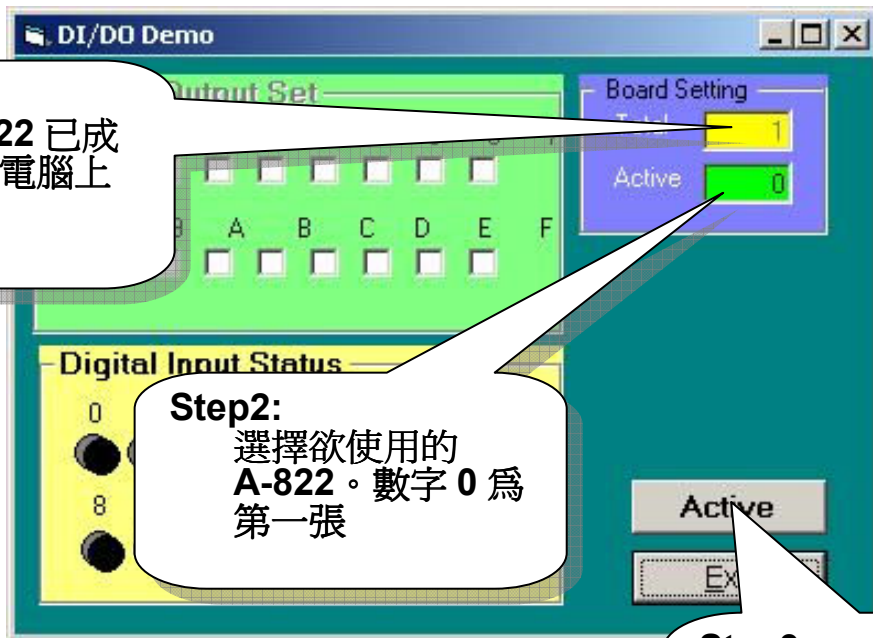
程式路徑:

CD:\NAPDOS\ISA\A822\dll\_ocx\

[http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/a822/dll\\_ocx/](http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/a822/dll_ocx/)

- III. 確認板卡數量及 DIO 測試。



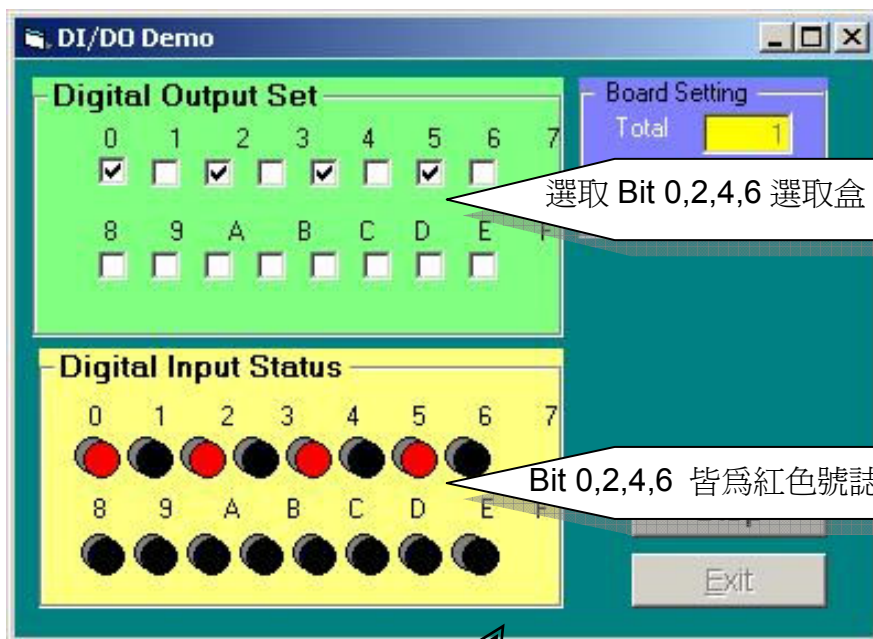


**Step1:**  
一張 A-822 已成功安裝至電腦上

**Step2:**  
選擇欲使用的 A-822。數字 0 為第一張

**Step3:**  
按下按鈕起動 DIO 測試

#### IV. 測試 DIO 功能



選取 Bit 0,2,4,6 選取盒

Bit 0,2,4,6 皆為紅色號誌。通過!!!



# 8

## Additional Information

✓ A-822 系列板卡產品網頁:

[http://www.icpdas.com/products/DAQ/pc\\_based/a-822.htm](http://www.icpdas.com/products/DAQ/pc_based/a-822.htm)

✓ CA-2002(選購品)網頁:

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

✓ 相關文件位置:

CD:\NAPDOS\ISA\A822>manual

CD:\NAPDOS\ISA\Manual

<http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/a822/manual/>

✓ 相關軟體位置:

CD:\ISA\NAPDOS\ISA\A822

<http://www.icpdas.com/download/isa/a822/index.htm>

泓格科技(ICP DAS)主網頁

<http://www.icpdas.com>



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- 常見問題
- 應用案例

聯絡方式

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