如何透過JTAG介面重新燒錄Boot load(開機載入程式)

應用於:

平台	作業系統版本	*WinPAC/ViewPAC utility* 版本
WP-8x3x/ XP-8x4x	所有版本	所有版本
VP-23W1/ VP-25W1	所有版本	所有版本
VP-4131	所有版本	所有版本

如果 WinPAC / ViewPAC 無法啓動而且無法使用 Eshell 更新，可能 Boot load 已經損壞。在這種情況下，你必須使用 JTAG 下載線重新燒綠 Boot load。完成燒錄 Boot load 後，Eshell 就能夠透過乙太網路更新作業系統。

請依照下列步驟，重新燒錄開機載入程式

步驟 1: 取得"Update_Eboot_Tool"資料夾

可至下列位置取得:
CD: \napdos\wp-8x4x_ce50\pc_tools\Update_Eboot_Tool
ftp://ftp.icpdas.com.tw/pub/cd/winpac/napdos/wp-8x4x_ce50/pc_tools/Update_Eboot_Tool

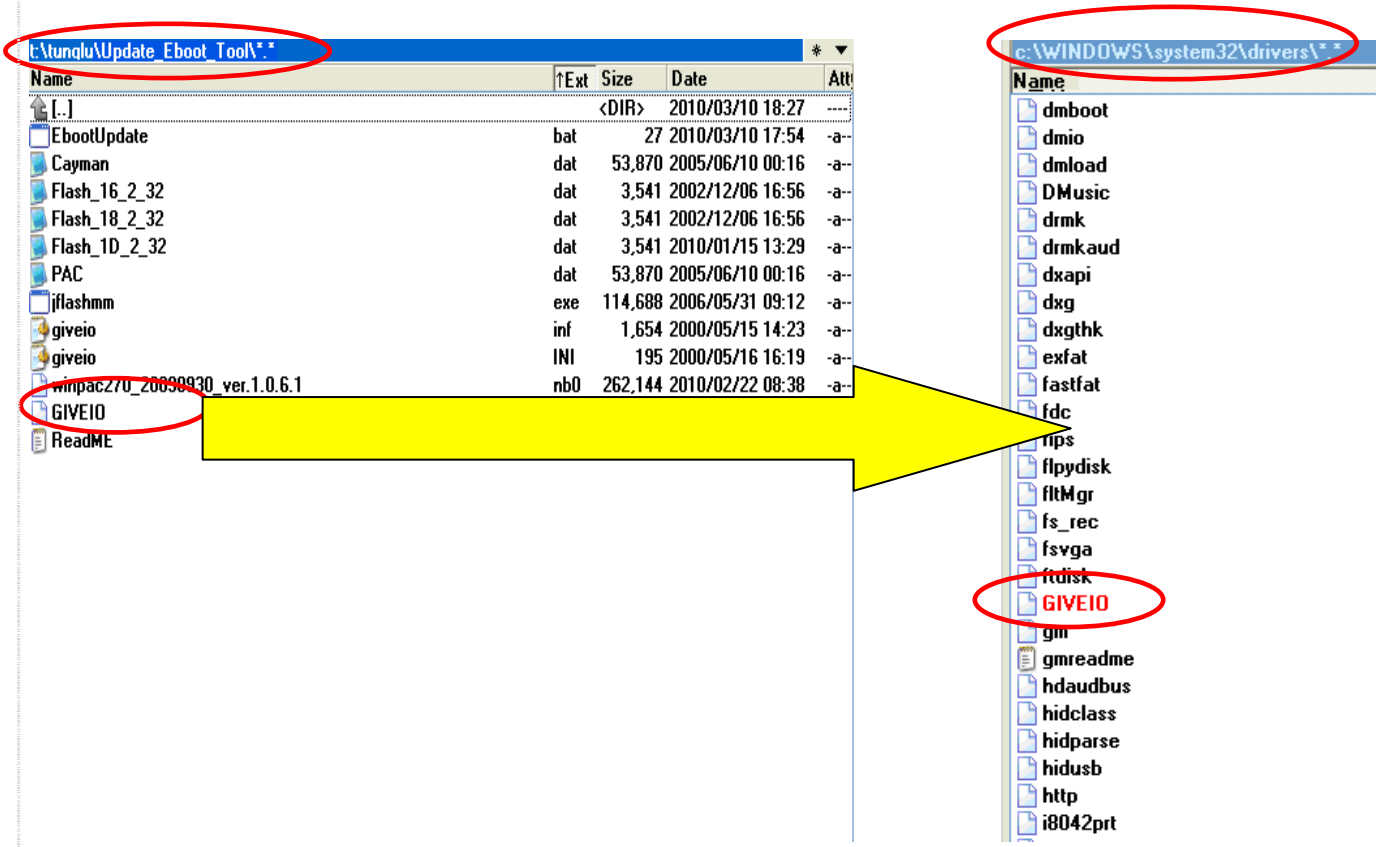
提示 & 警告

不同平台的 Boot load 安裝檔，可至以下位置取得

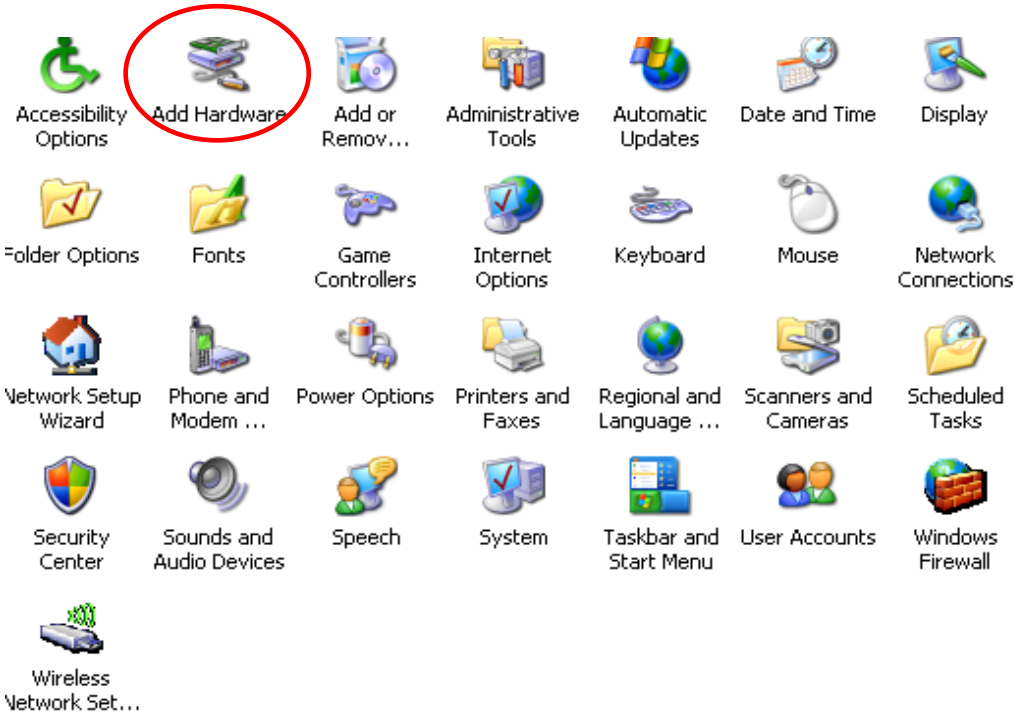
1. WP-8x4x -> CD:\napdos\wp-8x4x_ce50\os_image\eboot\
   ftp://ftp.icpdas.com.tw/pub/cd/winpac/napdos/wp-8x4x_ce50/os_image/eboot/
2. WP-8x3x -> CD:\napdos\wp-8x3x_ce50\os_image\eboot\
   "ftp://ftp.icpdas.com.tw/pub/cd/winpac/napdos/wp-8x3x_ce50/os_image/eboot/"
3. VP-25W1 -> CD:\napdos\vp-2000_ce50\os_image\vp-25w1\eboot\
   "ftp://ftp.icpdas.com.tw/pub/cd/winpac/napdos/vp-2000_ce50/os_image/vp-25w1/eboot/"
4. VP-23W1 -> CD:\napdos\vp-2000_ce50\os_image\vp-23w1\eboot\
   "ftp://ftp.icpdas.com.tw/pub/cd/winpac/napdos/vp-2000_ce50/os_image/vp-23w1/eboot/"
5. VP-4131 -> CD:\napdos\vp-4000_ce50\os_image\vp-413x\eboot\
   "ftp://ftp.icpdas.com/pub/cd/winpac/napdos/vp-4000_ce50/os_image/vp-413x/eboot/"

步驟 2: 安裝 “Giveio” 到 PC.

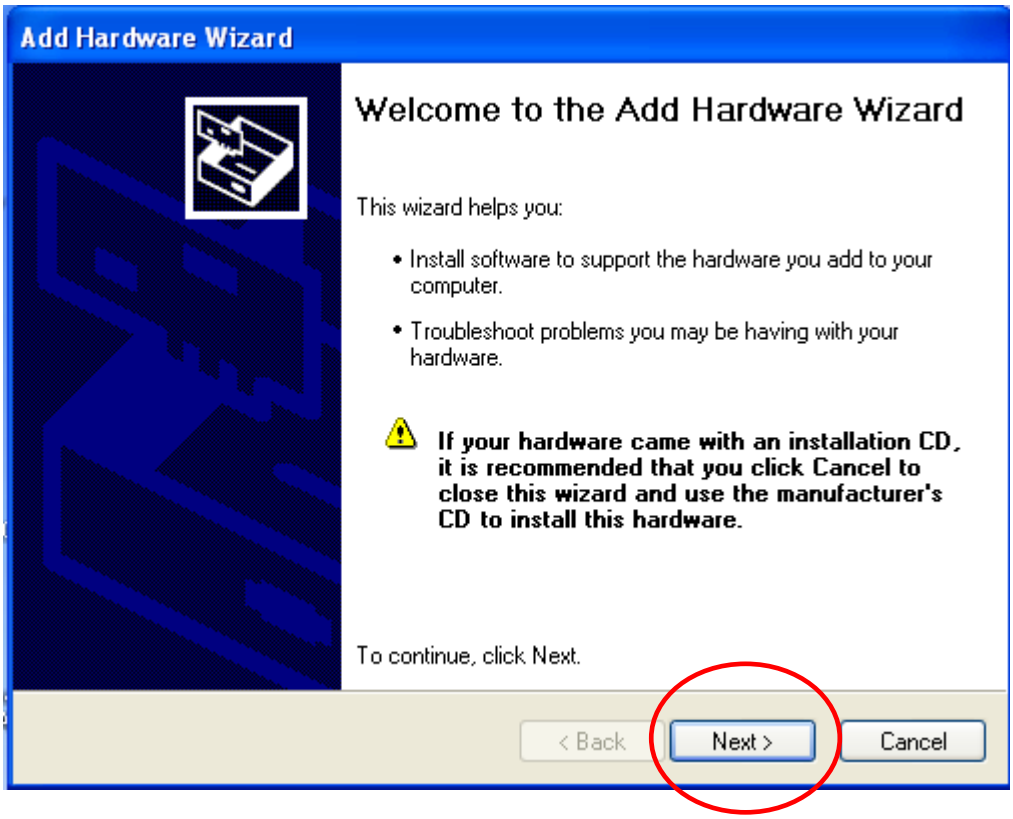
將“Update_Eboot_Tool”資料夾中的“Giveio.sys”，複製到“c:\windows\system32\drivers”資料夾



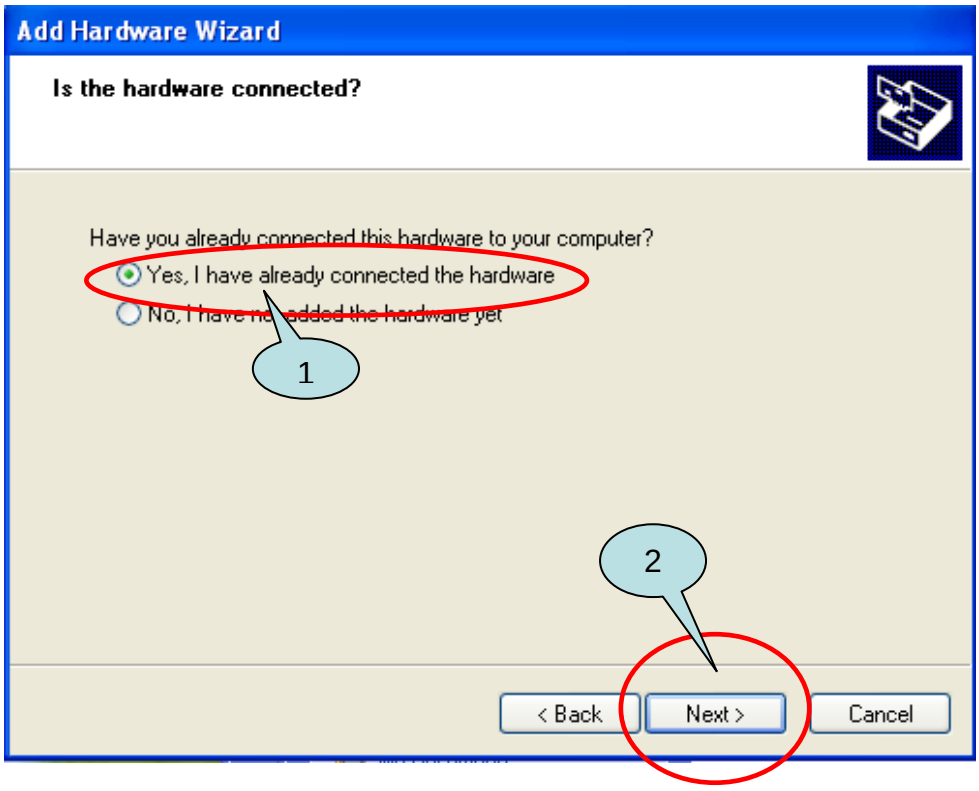
步驟 3: **點擊** 控制台 “新增硬體” 圖示



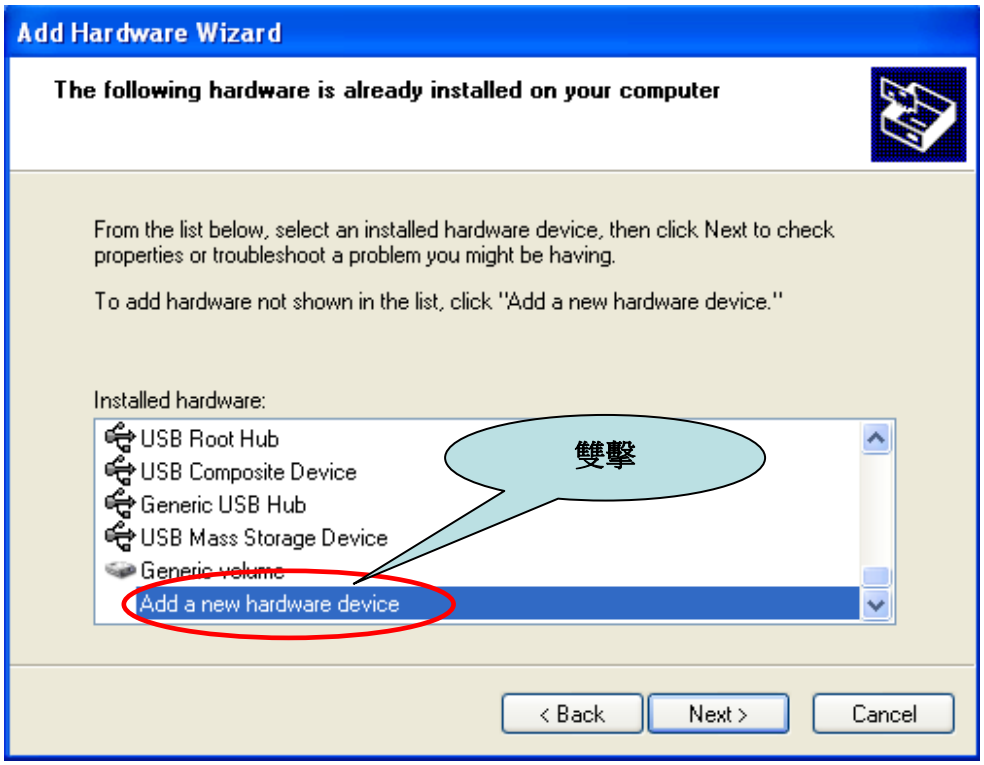
步驟 4:


Add Hardware Wizard
Welcome to the Add Hardware Wizard
This wizard helps you:
• Install software to support the hardware you add to your computer.
• Troubleshoot problems you may be having with your hardware.
If your hardware came with an installation CD, it is recommended that you click Cancel to close this wizard and use the manufacturer's CD to install this hardware.
To continue, click Next.
< Back
Next >
Cancel

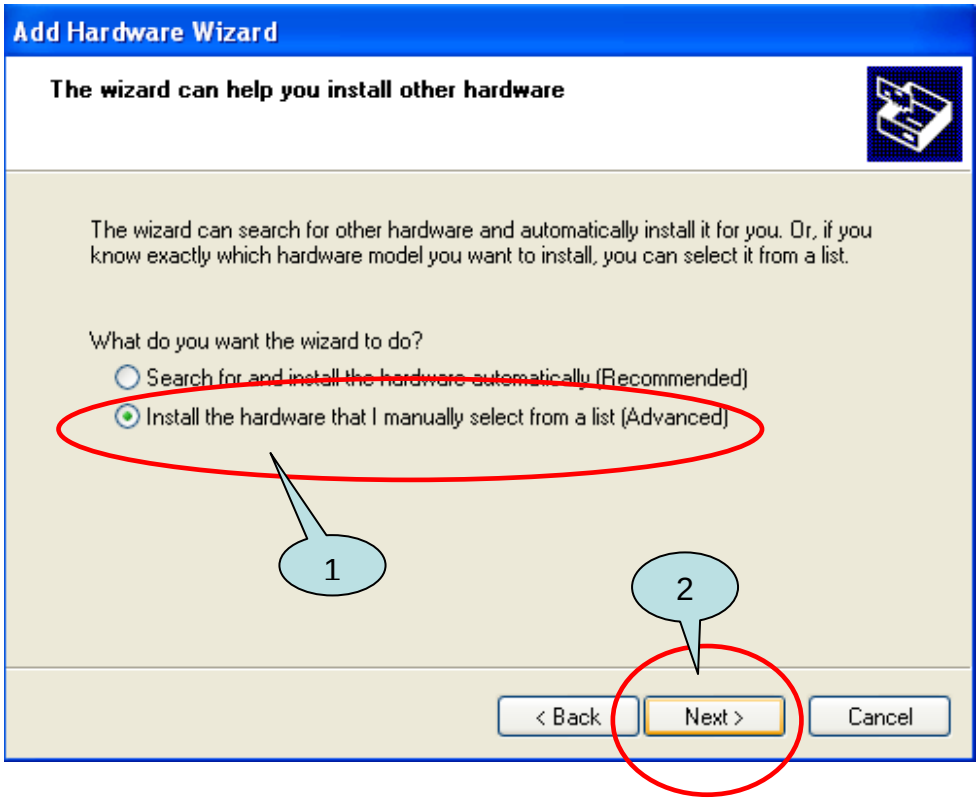
步驟 5:


Add Hardware Wizard
Is the hardware connected?
Have you already connected this hardware to your computer?
Yes, I have already connected the hardware
No, I have not added the hardware yet
1
2
< Back
Next >
Cancel

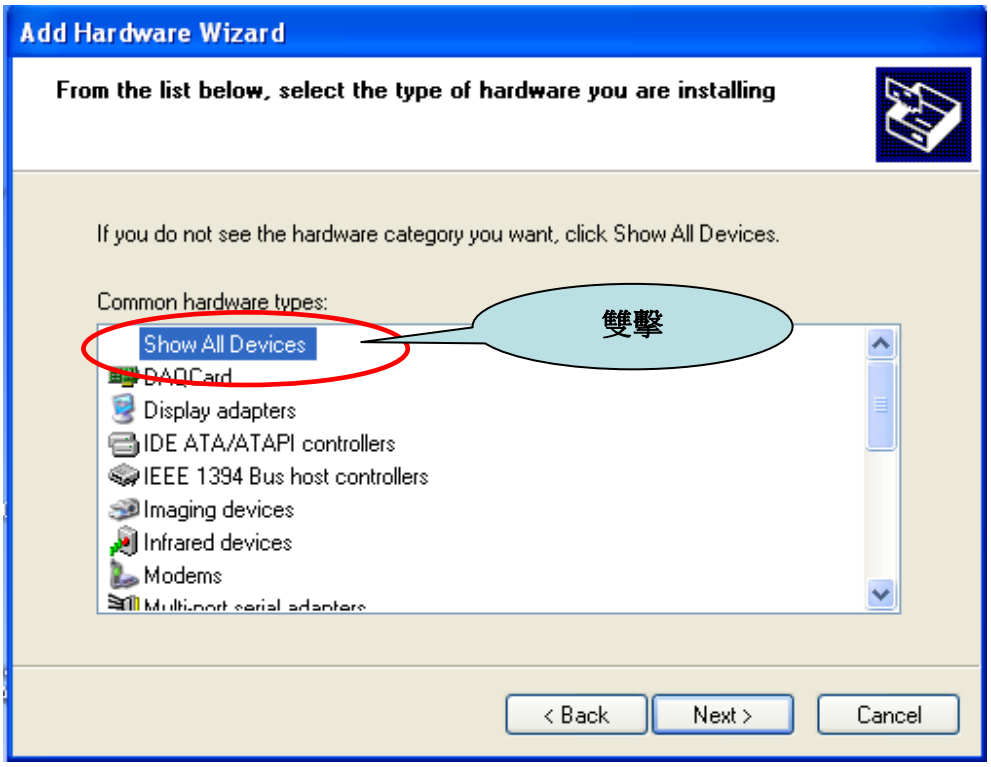
步驟 6:


Add Hardware Wizard
The following hardware is already installed on your computer
From the list below, select an installed hardware device, then click Next to check properties or troubleshoot a problem you might be having.
To add hardware not shown in the list, click "Add a new hardware device."
Installed hardware:
USB Root Hub
USB Composite Device
Generic USB Hub
USB Mass Storage Device
Generic volume
Add a new hardware device
雙擊
< Back
Next >
Cancel

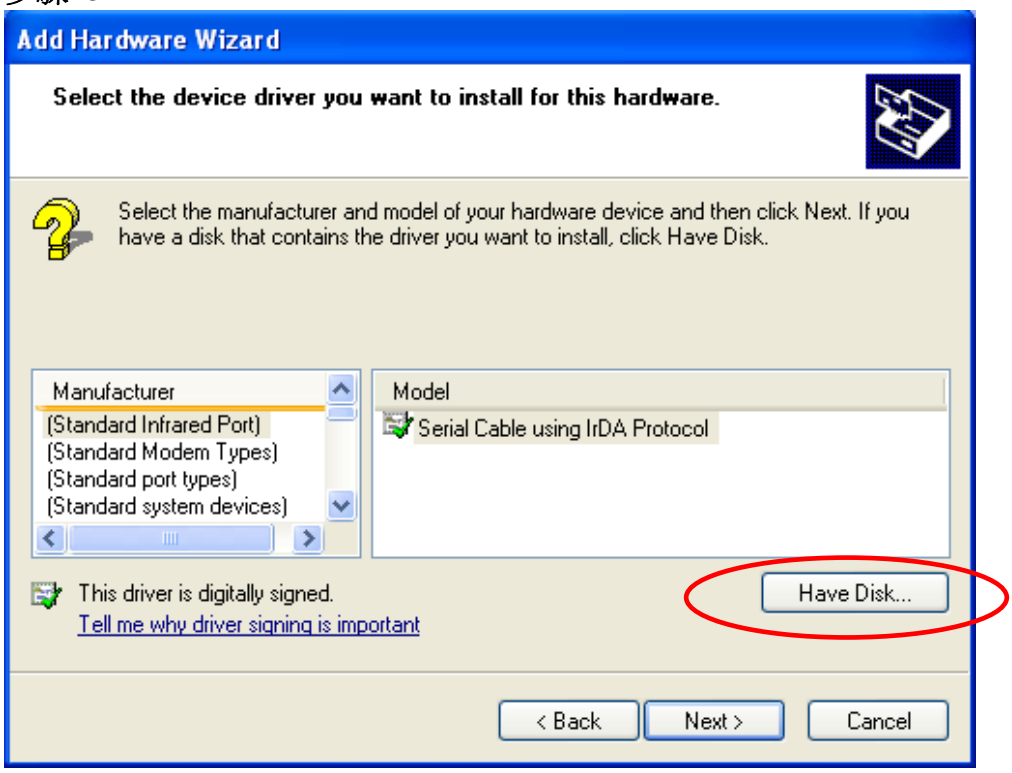
步驟 7:


Add Hardware Wizard
The wizard can help you install other hardware
The wizard can search for other hardware and automatically install it for you. Or, if you know exactly which hardware model you want to install, you can select it from a list.
What do you want the wizard to do?
Search for and install the hardware automatically (Recommended)
Install the hardware that I manually select from a list (Advanced)
1
2
< Back
Next >
Cancel

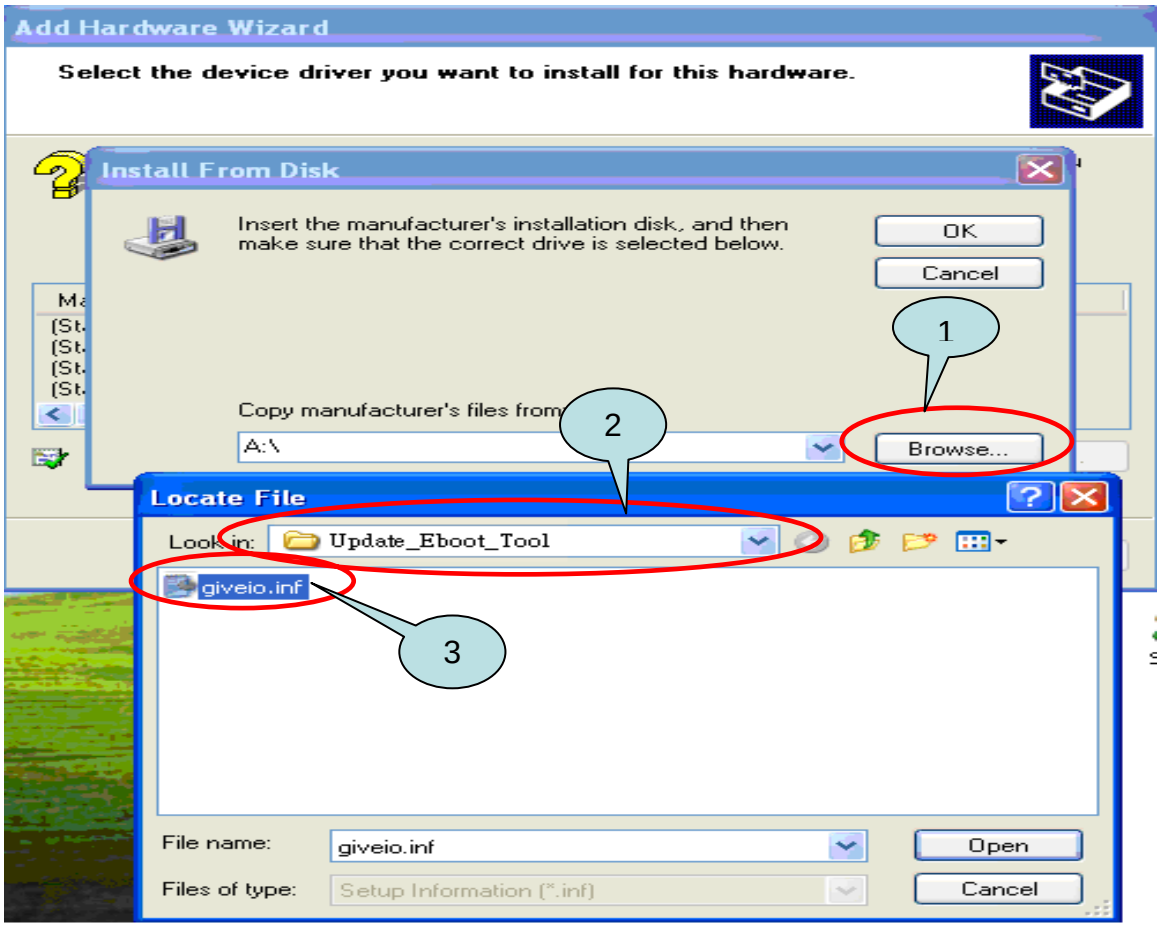
步驟 8:


Add Hardware Wizard
From the list below, select the type of hardware you are installing
If you do not see the hardware category you want, click Show All Devices.
Common hardware types:
雙擊
Show All Devices
PAQCard
Display adapters
IDE ATA/ATAPI controllers
IEEE 1394 Bus host controllers
Imaging devices
Infrared devices
Modems
< Back
Next >
Cancel

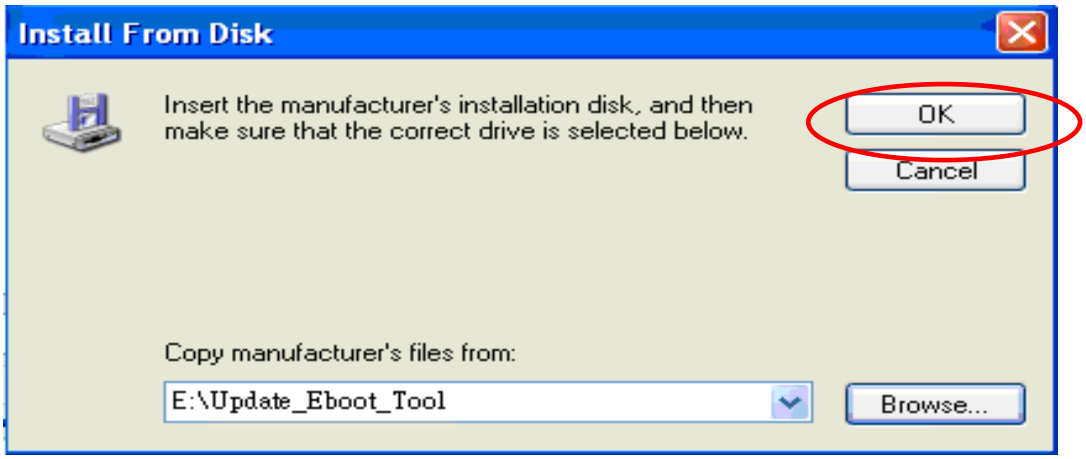
步驟 9:


Add Hardware Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Manufacturer
(Standard Infrared Port)
(Standard Modem Types)
(Standard port types)
(Standard system devices)
Model
Serial Cable using IrDA Protocol
This driver is digitally signed.
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

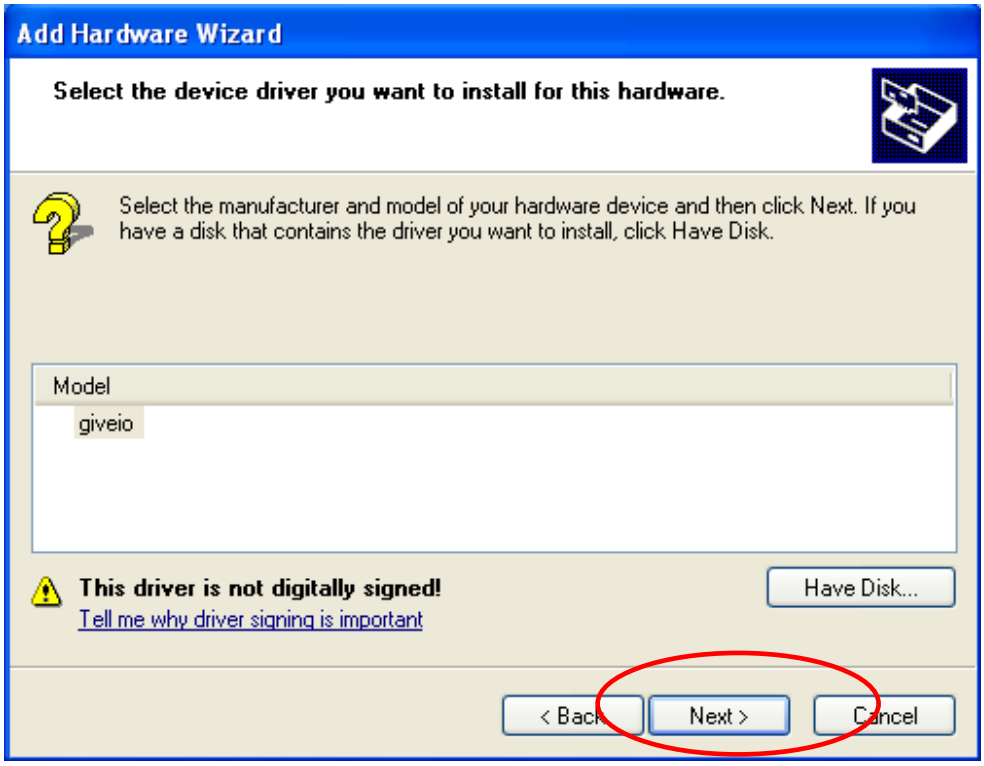
9.1: 點擊 “瀏覽”，移至 “**Update_Eboot_Tool**” 資料夾後，點擊“**giveio.inf**”



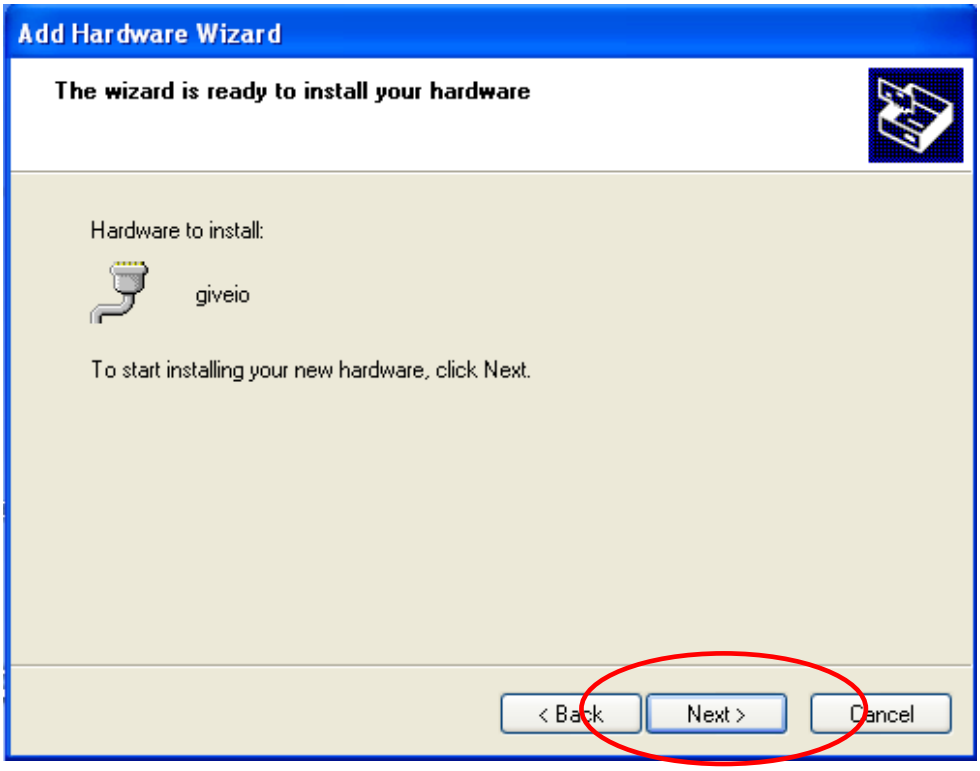
9.2:



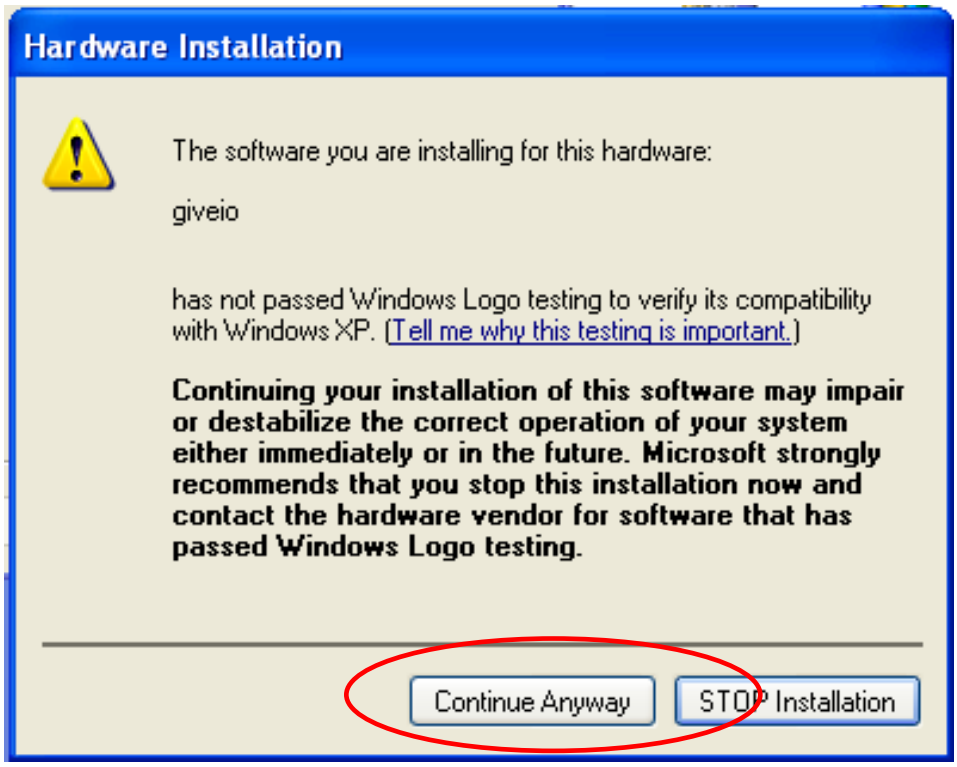
9.3:


Add Hardware Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Model
giveio
This driver is not digitally signed!
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

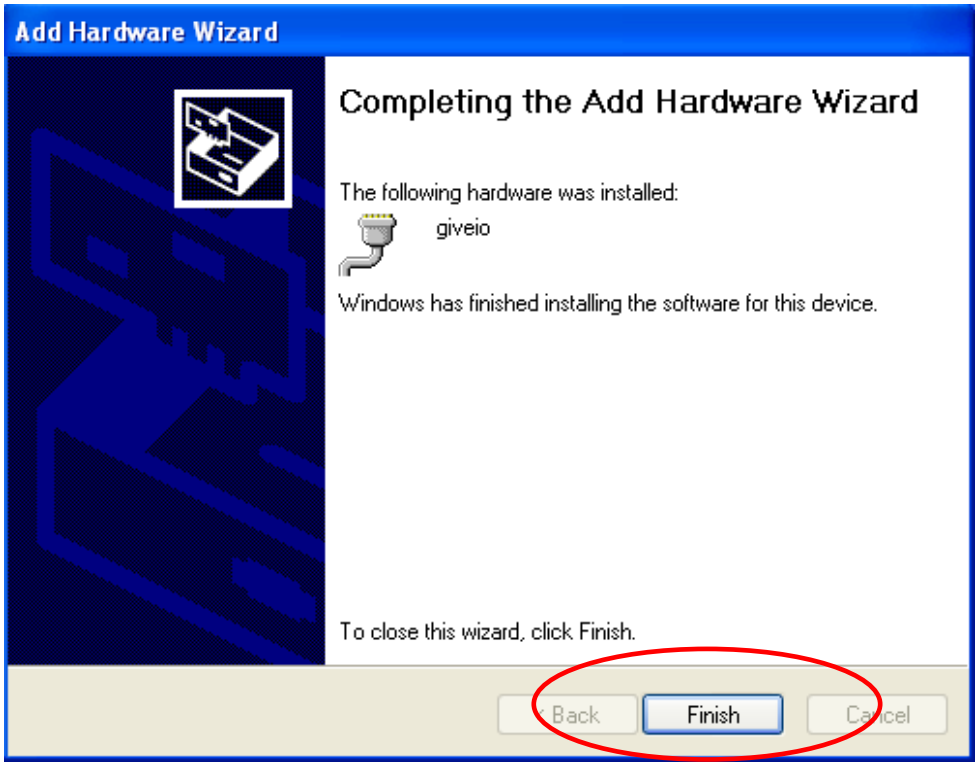
步驟 10:


Add Hardware Wizard
The wizard is ready to install your hardware
Hardware to install:
giveio
To start installing your new hardware, click Next.
< Back
Next >
Cancel

步驟 11:

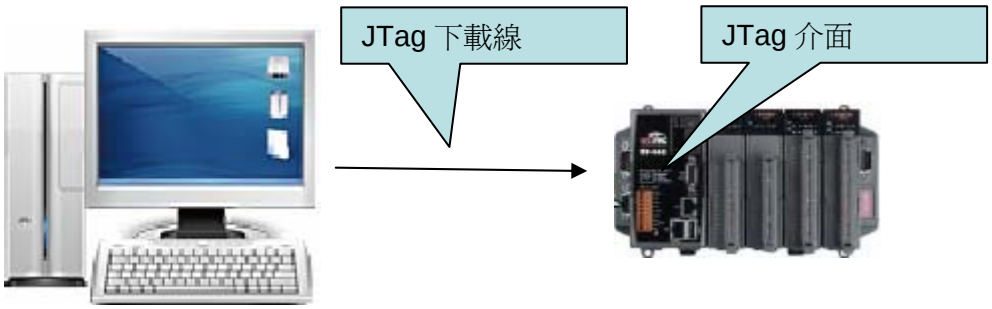

Hardware Installation
The software you are installing for this hardware:
giveio
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

步驟 12:


Add Hardware Wizard
Completing the Add Hardware Wizard
The following hardware was installed:
giveio
Windows has finished installing the software for this device.
To close this wizard, click Finish.
< Back
Finish
Cancel

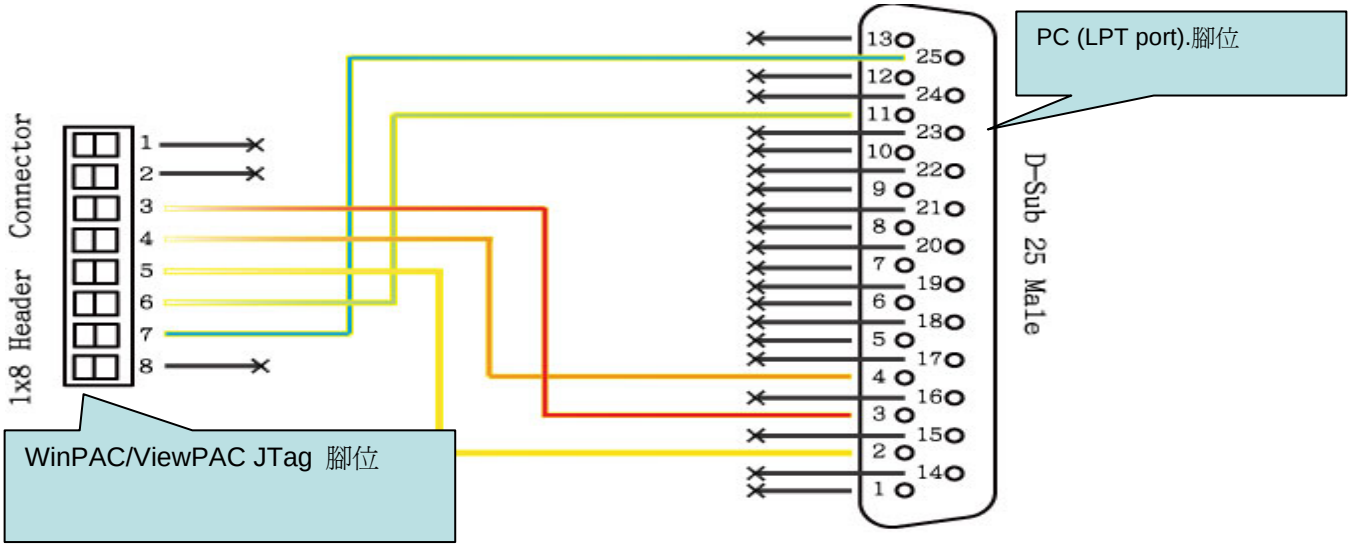
12.1: 點擊 控制台->系統->硬體->裝置管理員 “giveio” 會出現在 Ports (COM & LPT) 中

12.2: 用 JTag 下載線連接 PC 與 WinPAC/ViewPAC



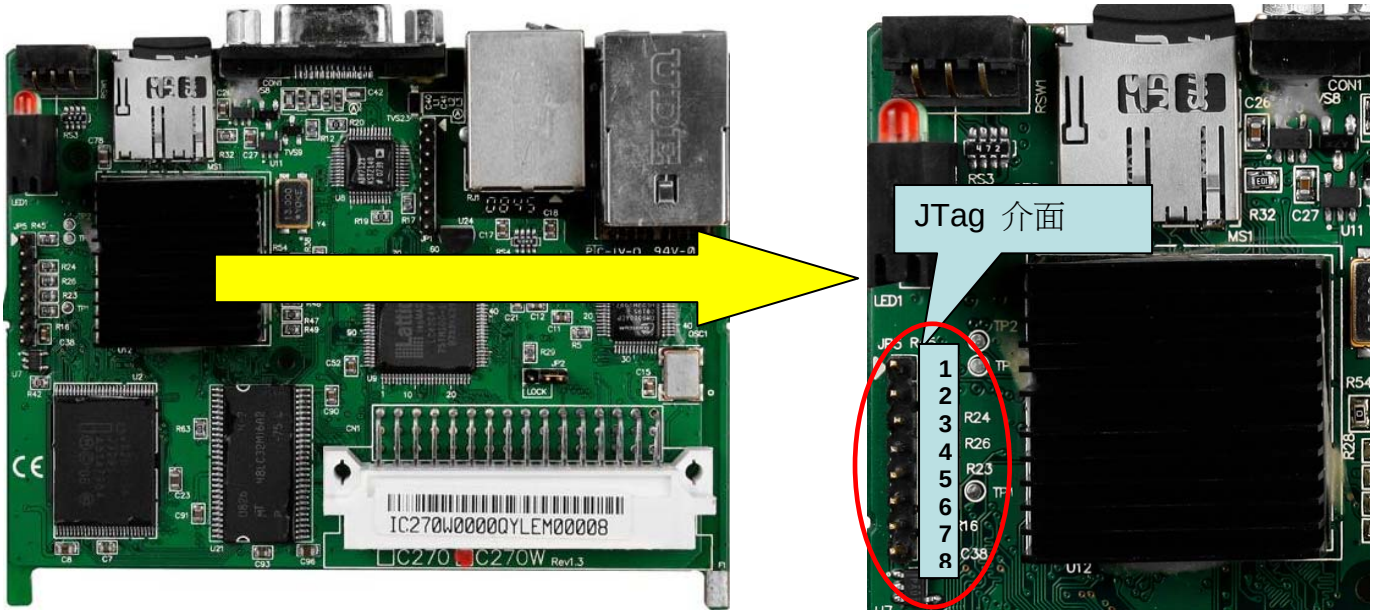
提示 & 警告

Pin 腳分布圖

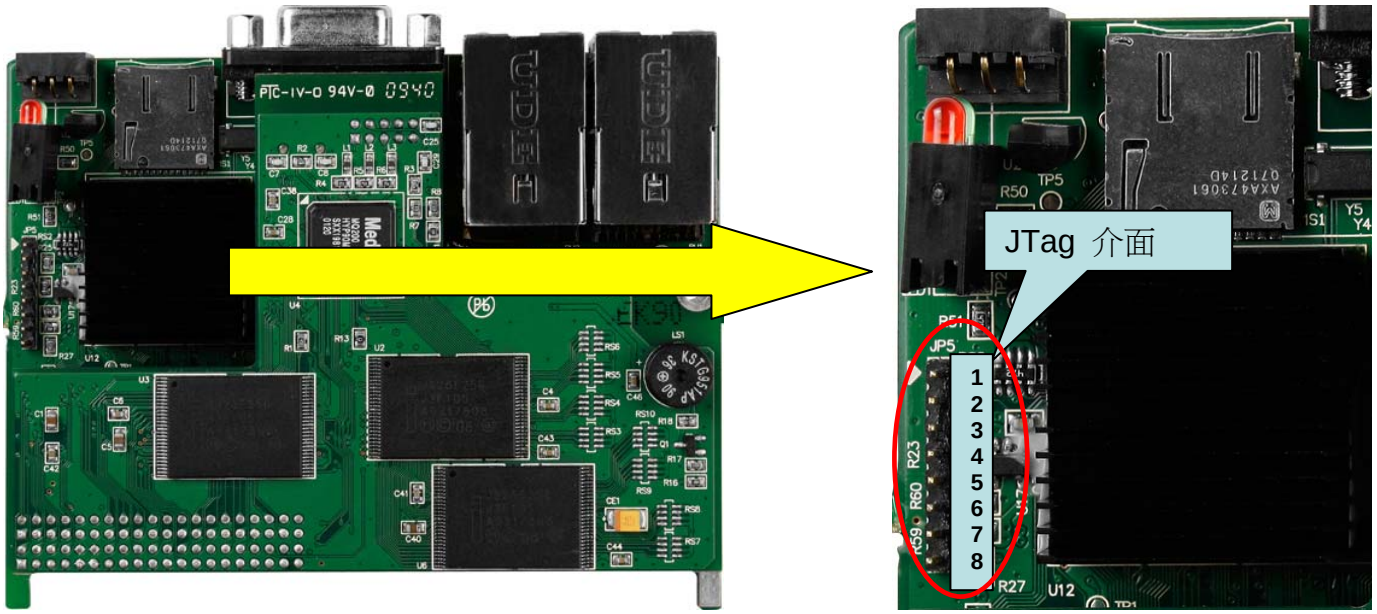


不同平台上 JTag 介面位置

WP-8x4x

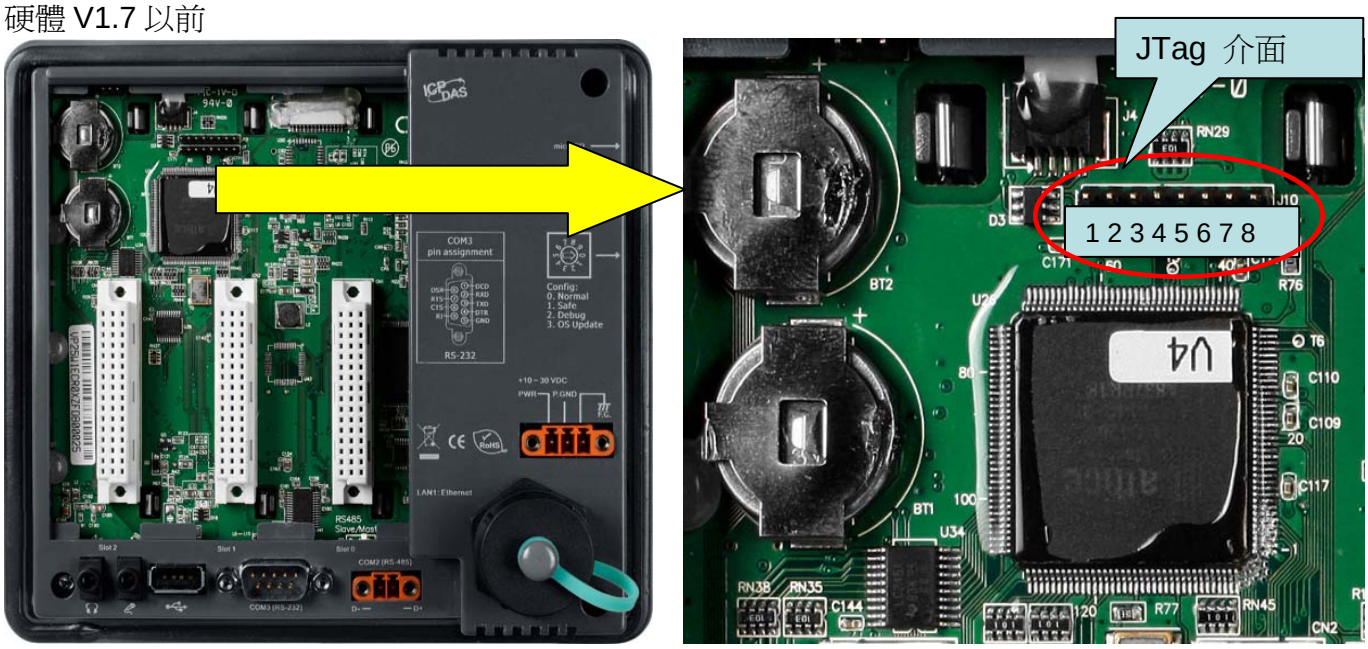


WP-8x3x

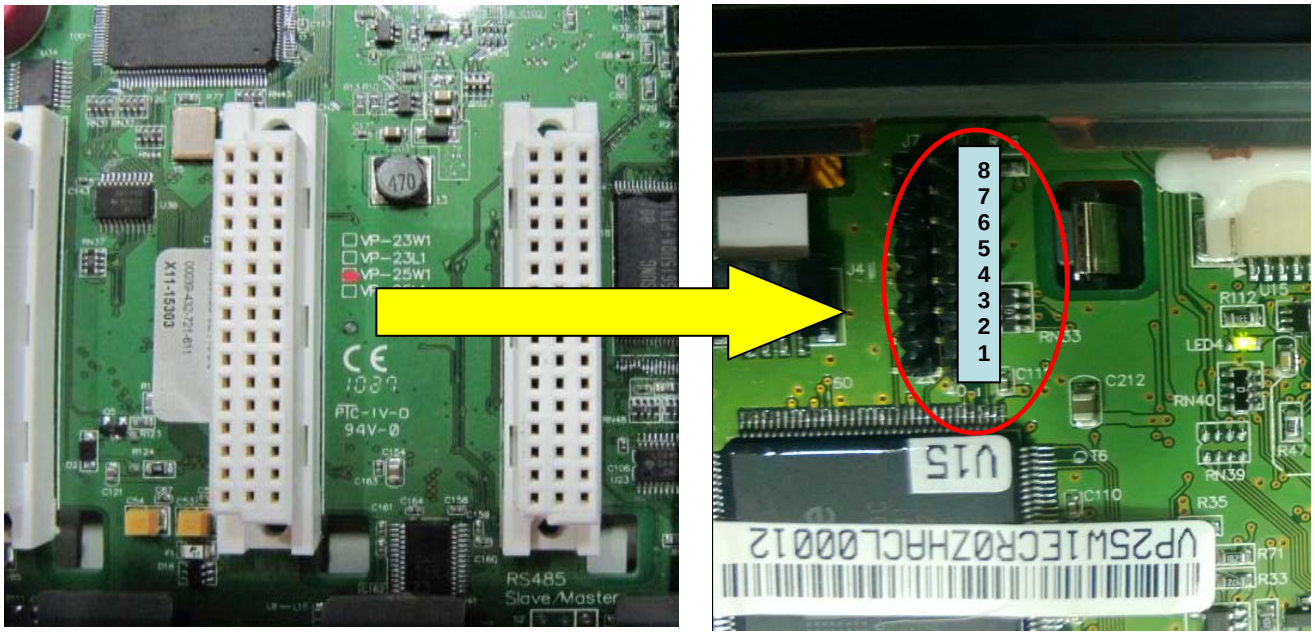


ViewPAC

硬體 V1.7 以前

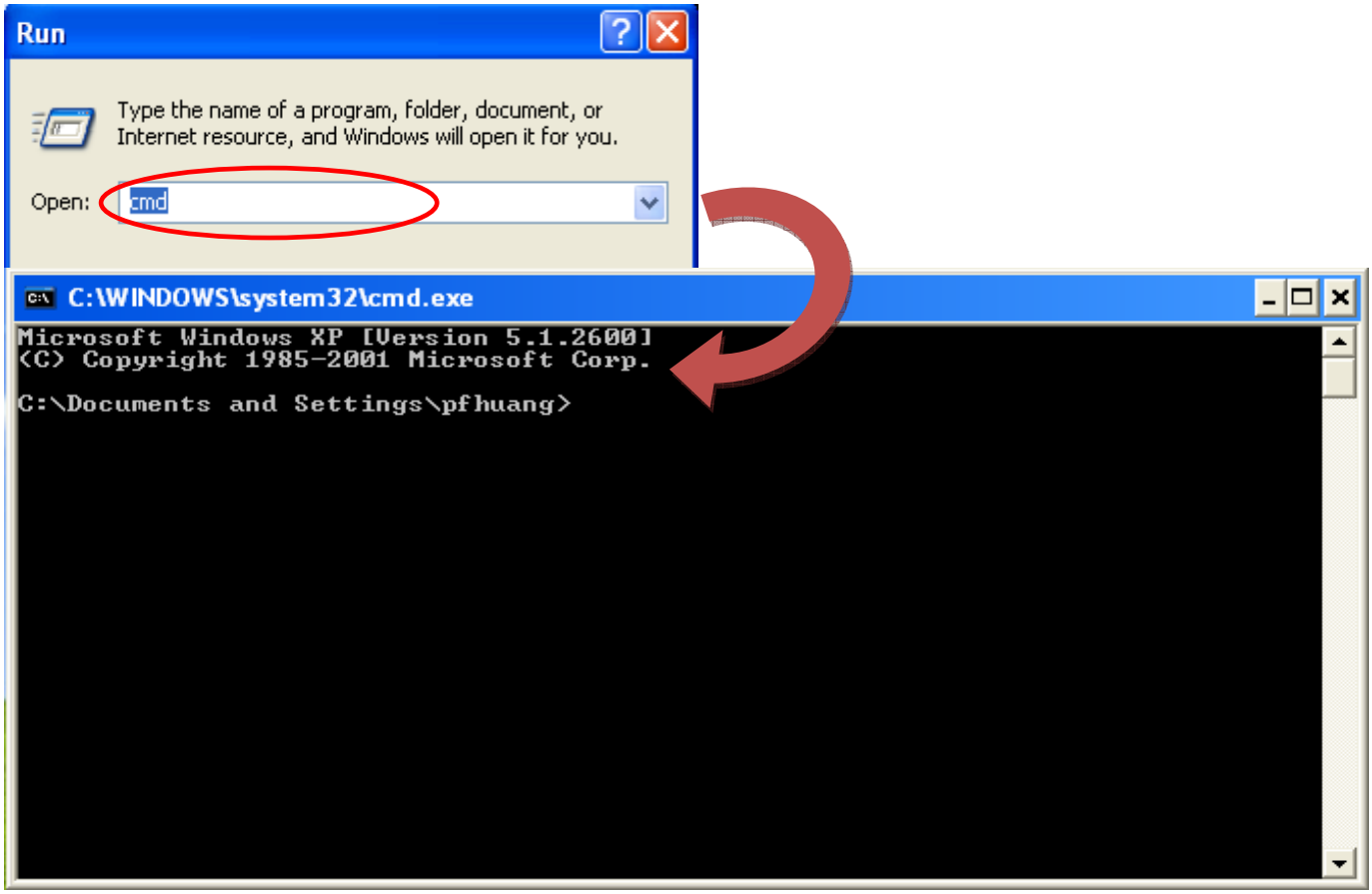


硬體 V2.0 以後

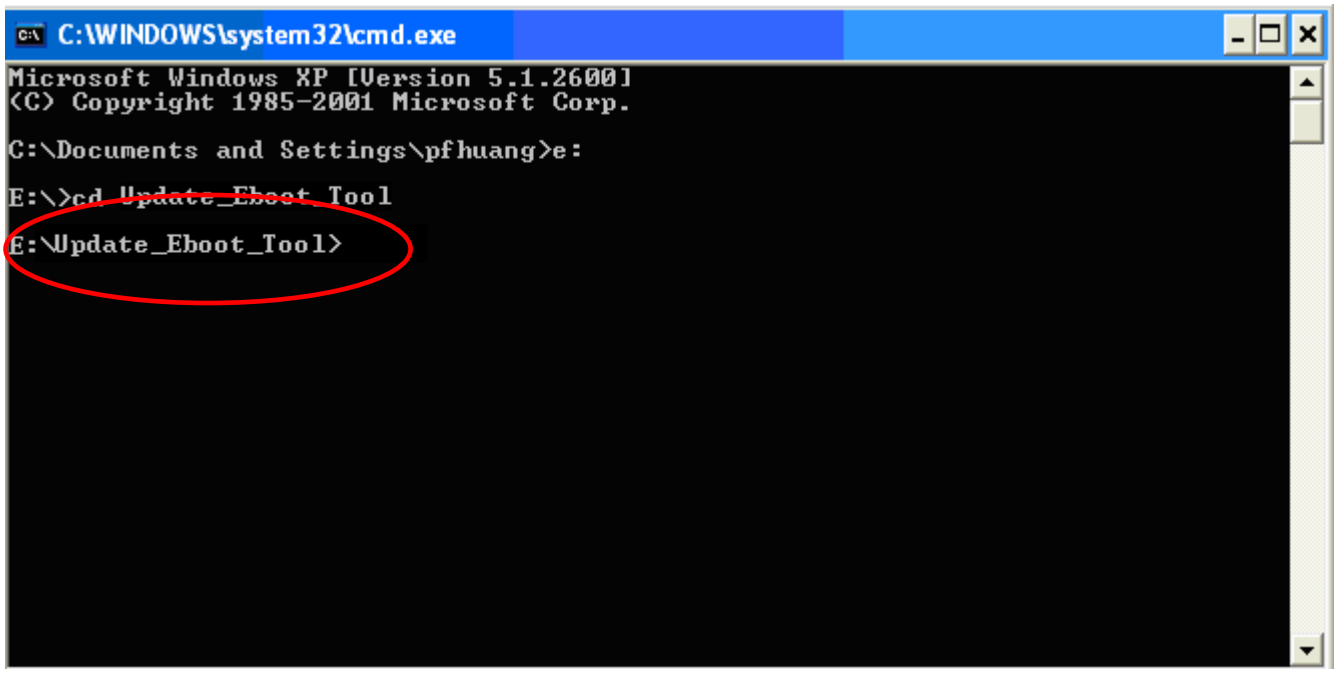


步驟 13: 點擊 開始->執行

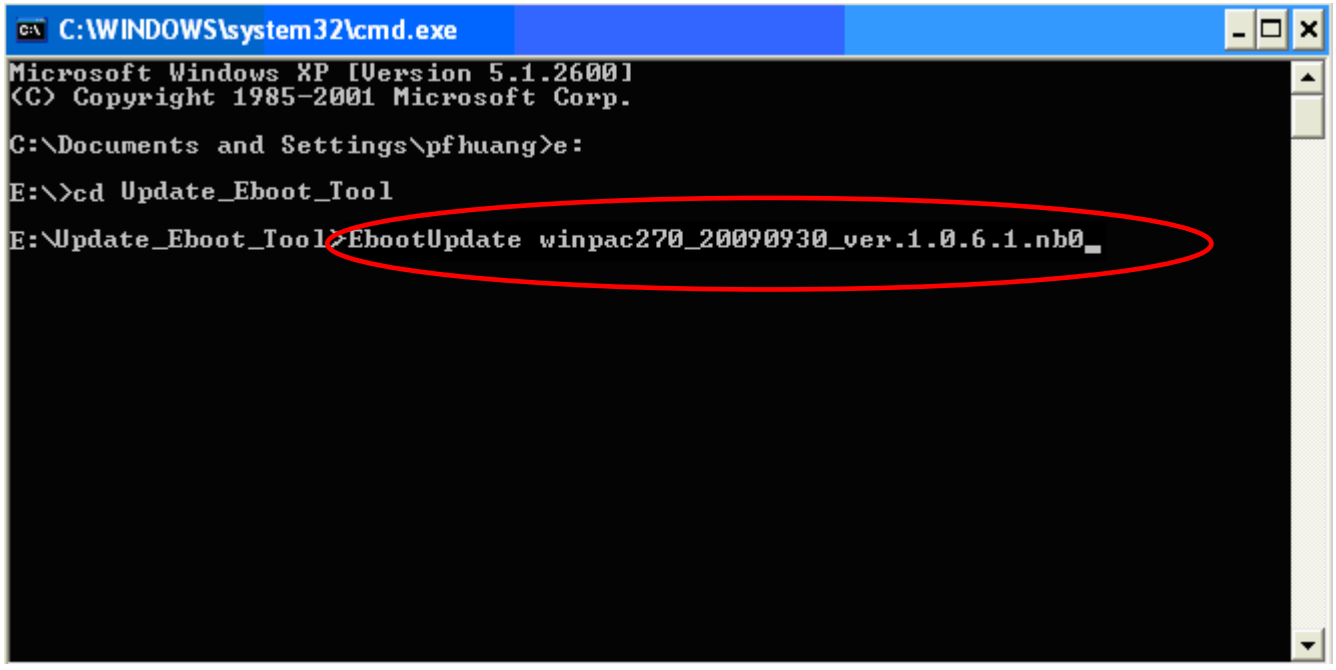
13.1: 輸入 “cmd”



步驟 14: 切換至 “Update_Eboot_Tool” 資料夾



步驟 15: 輸入指令 “EbootUpdate “<boot loader 安裝檔檔名>”(例如: winpac270_20090930_ver.1.0.6.1.nb0)”.



步驟 16: 按下 “Y” 鍵.

```
E:\Update_Eboot_Tool>EbootUpdate winpac270_20090930_ver.1.0.6.1.nb0_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PLATFORM SELECTION:
 Processor=             PXA27x
 Development System=    Mainstone
 Data Version=          1.00.002

PXA27x revision ??
Failed to read the Flash ID. Retrying 4 more times...
Failed to read the Flash ID. Retrying 3 more times...
Found flash type: 28F128J3D
The last 21 percent of image file is all zeros
Would you like to save time by not programming that area? [y/n]: _
```

步驟 17: **看到** “Programming done” 後，重新啓動 WinPAC/ViewPAC 使用 Eshell 重新安裝 OS

請參考文件 “w4-001-02_如何使用 Eshell 透過區域網路更新 OS” 使用 Eshell 安裝 OS

```
C:\WINDOWS\system32\cmd.exe
Erasing block at address 0
Error, Block erase timed out

E:\Update_Eboot_Tool>EbootUpdate winpac270_20090930_ver.1.0.6.1.nb0_


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PLATFORM SELECTION:
 Processor=             PXA27x
 Development System=    Mainstone
 Data Version=          1.00.002

PXA27x revision ??
Found flash type: 28F128J3D
The last 21 percent of image file is all zeros
Would you like to save time by not programming that area? [y/n]: y
Erasing block at address 0
Starting programming
Using BUFFER programming mode...
Writing flash at hex address    32ac0, 99.35% done
Programming done

E:\Update_Eboot_Tool>
```