PnP Driver Installation

Plug & Play Driver Installation Manual
For AD/DA, DI/DO Cards

[For Windows 95/98/2000/XP]

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1   Introduction

This manual describes how to install the Plug and Play Information file (PnP Driver) of AD/DA, DI/DO add-on cards (PCI and ISA bus) on Windows 95/98/2000/XP.

All of the products (PCI bus) have their own PnP information file (PnP Driver). Windows 95/98 and Windows 2000/XP will refer to this information file in order to allocate the resource for the device. Thus, the user must install the correct information file (PnP Driver) for it to work correctly. All of the PnP drivers have similar steps for installation. And this manual uses the PCI-TMC12 or PIO series card as an example. For other PCI cards, please refer to these steps and select the appropriate PnP Driver to install.

To find out the PnP Information file (PnP Driver) for the specified device, please refer to the file "Readme.TXT" which is include with the Development Toolkit for the specified device.

For example:

```
|--\PioDio
      |--\Win95
      |      |--\Inf              PnP Driver
      |      ……….
      |      ……….
      |
      |--\Win2000
      |      |--\Inf              PnP Driver
```

2   PCI PnP for Win95/98

Step 2-1. Power off your computer.
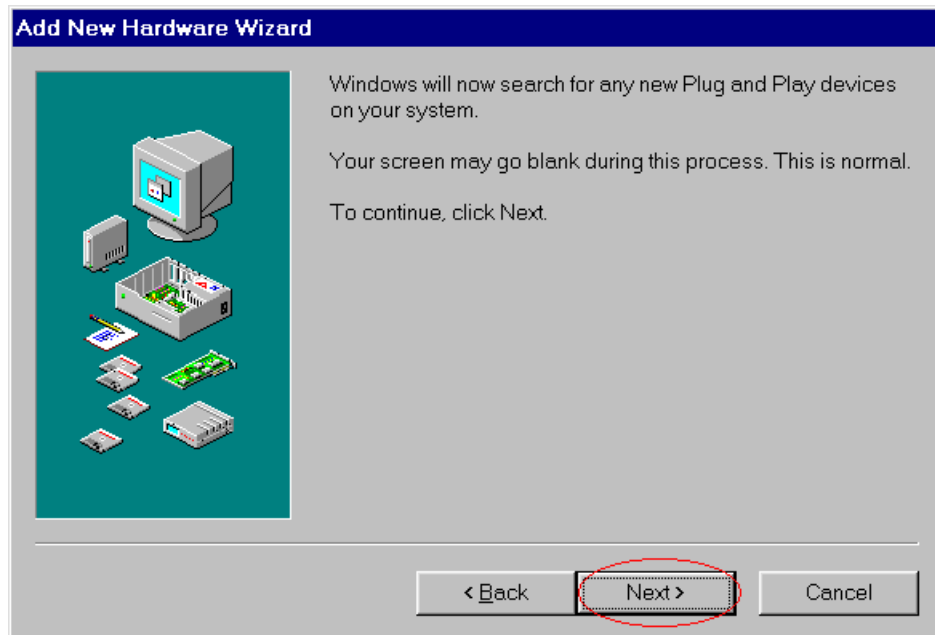
Step 2-2. Plug the PCI DAQ card onto main-board.

Step 2-3. Power on your computer.

Step 2-4. The "Add New Hardware Wizard" window pops up. The user also can launch the window "Add New Hardware Wizard" by click the icon "Add New Hardware" from the folder "Control Panel".
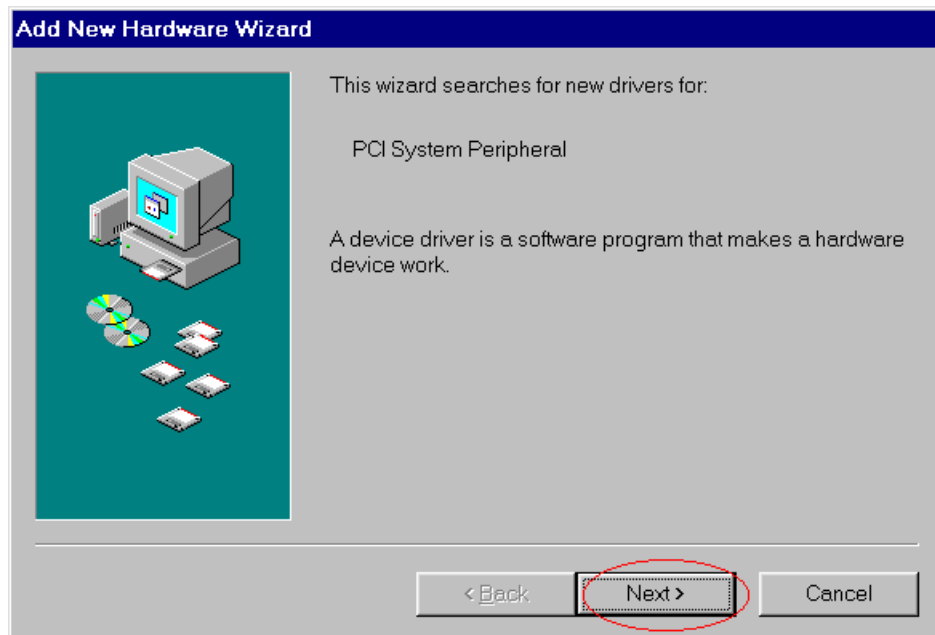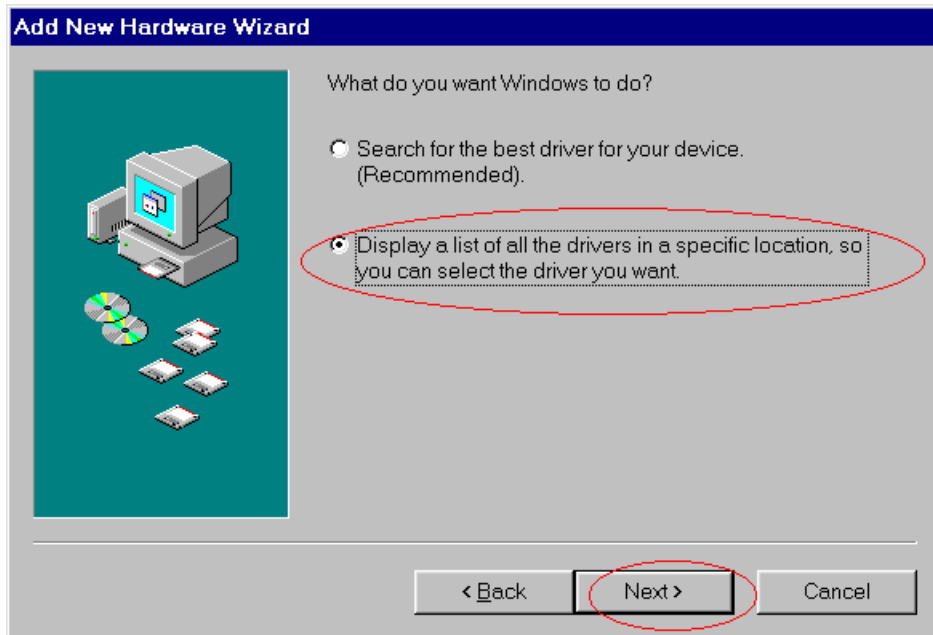
Step 2-5. Click the "Next >" button.

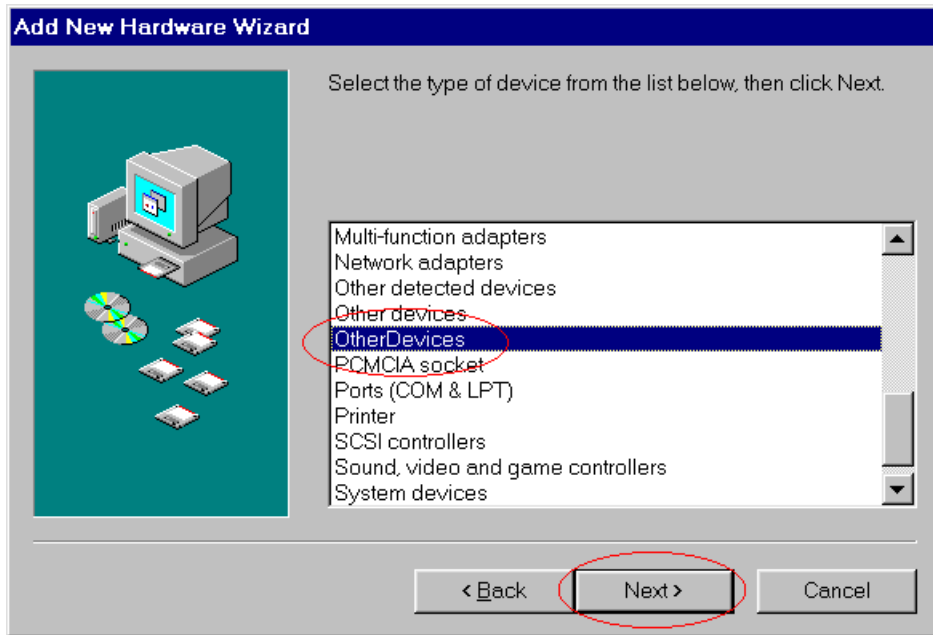## Step 2-6. Click the "Next >" button.

Step 2-7. Click the "Next >" button.

Step 2-8. Select the second item and then click the "Next >" button.

Add New Hardware Wizard

What do you want Windows to do?

○ Search for the best driver for your device.
   (Recommended).

◉ Display a list of all the drivers in a specific location, so
   you can select the driver you want.

< Back   Next >   Cancel

Step 2-9. Select the item "OtherDevices" and click "Next >" button.

Add New Hardware Wizard

Select the type of device from the list below, then click Next.

Multi-function adapters
Network adapters
Other detected devices
Other devices
OtherDevices
PCMCIA socket
Ports (COM & LPT)
Printer
SCSI controllers
Sound, video and game controllers
System devices

< Back   Next >   Cancel

Step 2-10. Click the "Have Disk…" button.
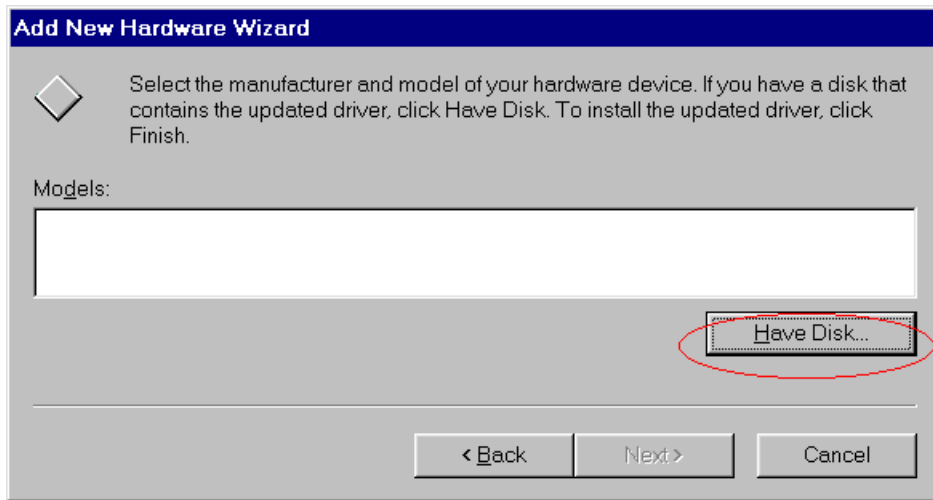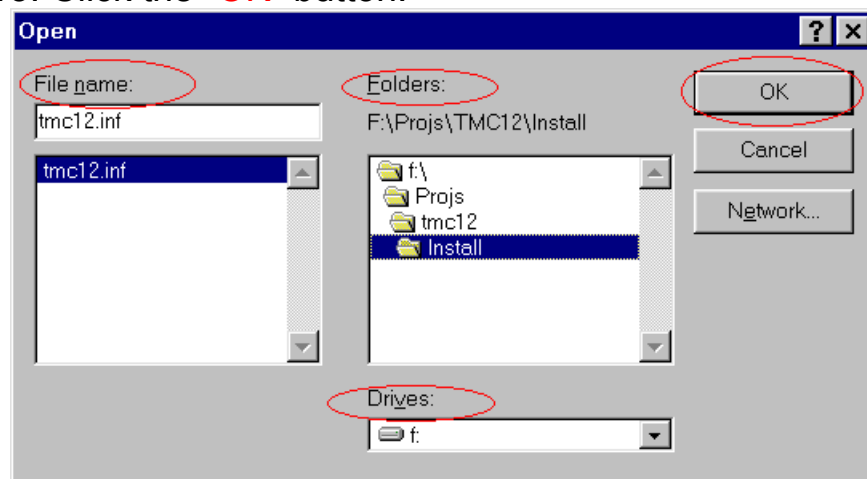

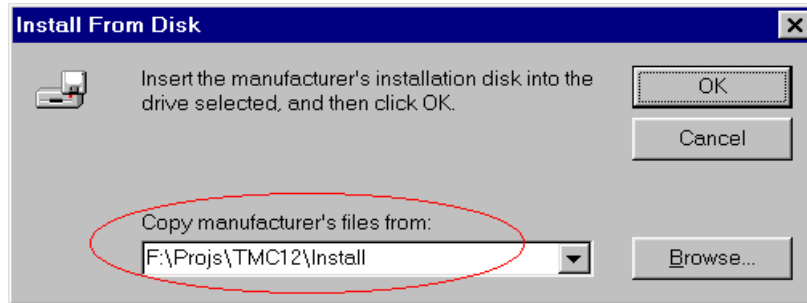Step 2-11. Click the button "Browse…" to select the path of the driver.
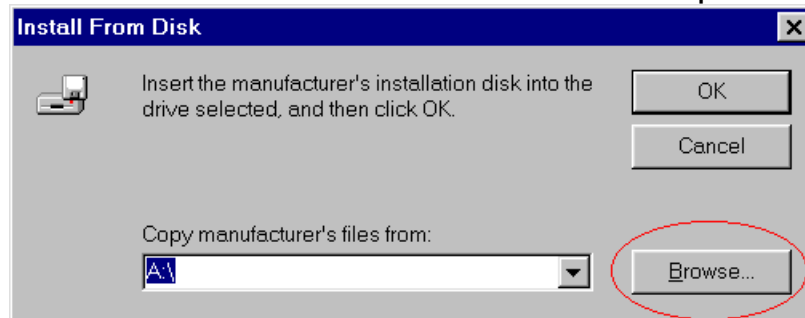
Step 2-12. Change the "Drives", "Folders" and select the correct .INF file. These depend on the device driver that you want to use.
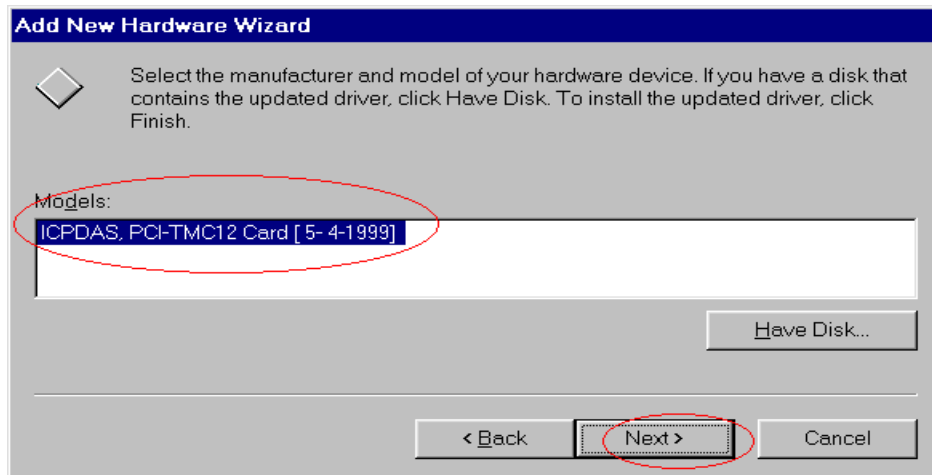
Step 2-13. Click the "OK" button.

Step 2-14. Make sure that the path is correct for the PCI DAQ card.

Step 2-15. Click the "OK" button to proceed to the next step.

Install From Disk

Insert the manufacturer's installation disk into the drive selected, and then click OK.

OK

Cancel

Copy manufacturer's files from:

F:\Projs\TMC12\Install

Browse...

Step 2-16. Select the correct driver (Models) for the PCI DAQ card.

Step 2-17. Click the "Next >" button to proceed to the next step.

Add New Hardware Wizard

Select the manufacturer and model of your hardware device. If you have a disk that contains the updated driver, click Have Disk. To install the updated driver, click Finish.

Models:

ICPDAS, PCI-TMC12 Card [5- 4-1999]

Have Disk...

< Back   Next >   Cancel

Step 2-18. Click the "Next >" button.

Add New Hardware Wizard

Windows driver file search for the device:

ICPDAS, PCI-TMC12 Card

Windows is now ready to install the selected driver for this device. Click Back to select a different driver, or click Next to continue.

Location of driver:

F:\PROJS\TMC12\INSTALL\TMC12.INF

< Back   Next >   Cancel

Step 2-19. Click the "Finish" button.

Add New Hardware Wizard

ICPDAS, PCI-TMC12 Card

Windows has finished installing the software you selected that your new hardware device requires.

< Back   Finish   Cancel

Step 2-20. Select the item "Yes, I am finished installing devices.".

Step 2-21. Click the "Next >" button.
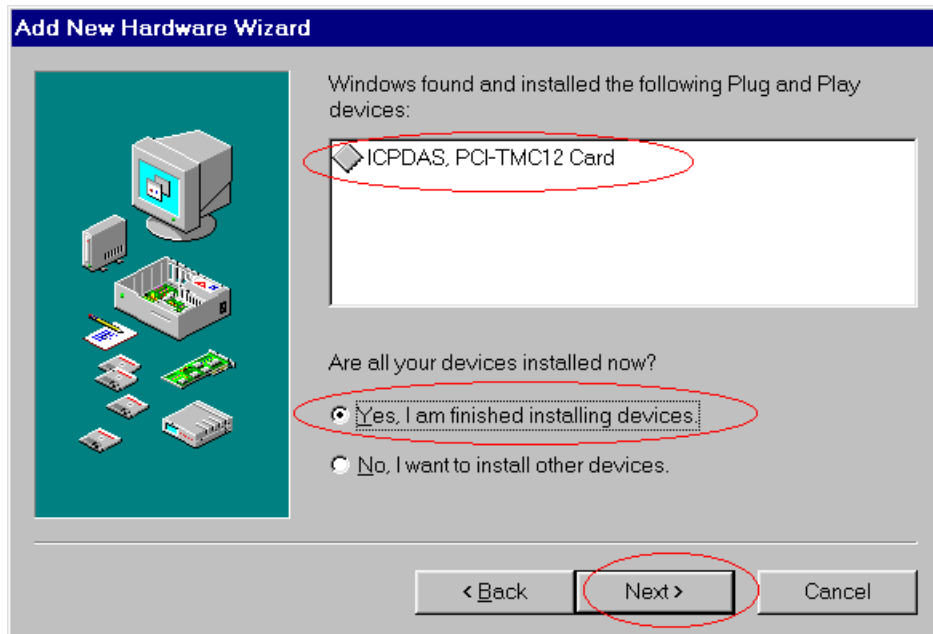
Step 2-22. Click the "Finish" button.

3   PCI PnP for Win2000/XP

Step 3-1. Power off your computer.
Step 3-2. Plug the PCI DAQ card onto main-board.
Step 3-3. Power on your computer.

Step 3-4. The "Add New Hardware Wizard" window pops up.

Step 3-4-1. The user also can launch the window "Add New Hardware Wizard" by click "Start / Settings / Control Panel".
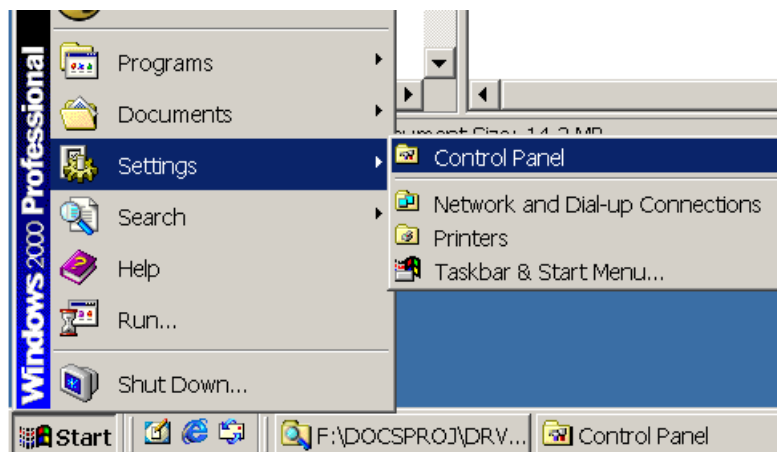
Step 3-4-2. Double-Click on the "Add/Remove Hardware" item.
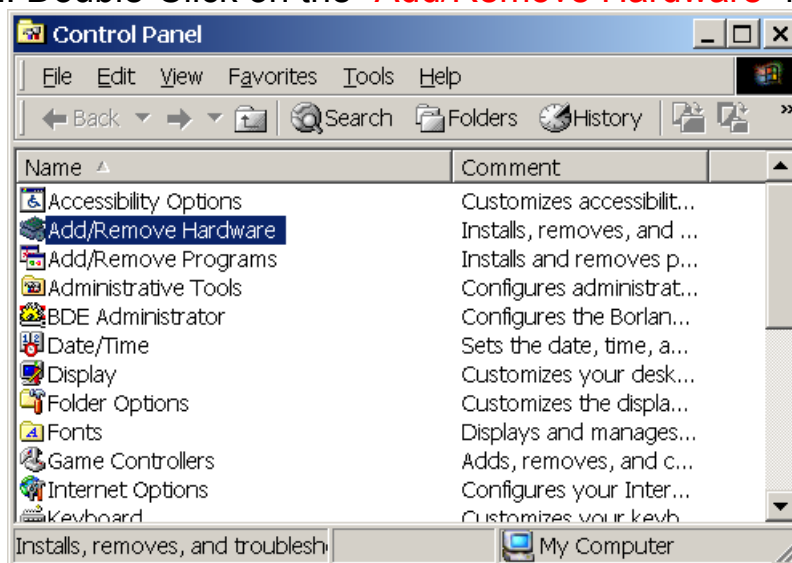
Step 3-5. Click "Next >" button.
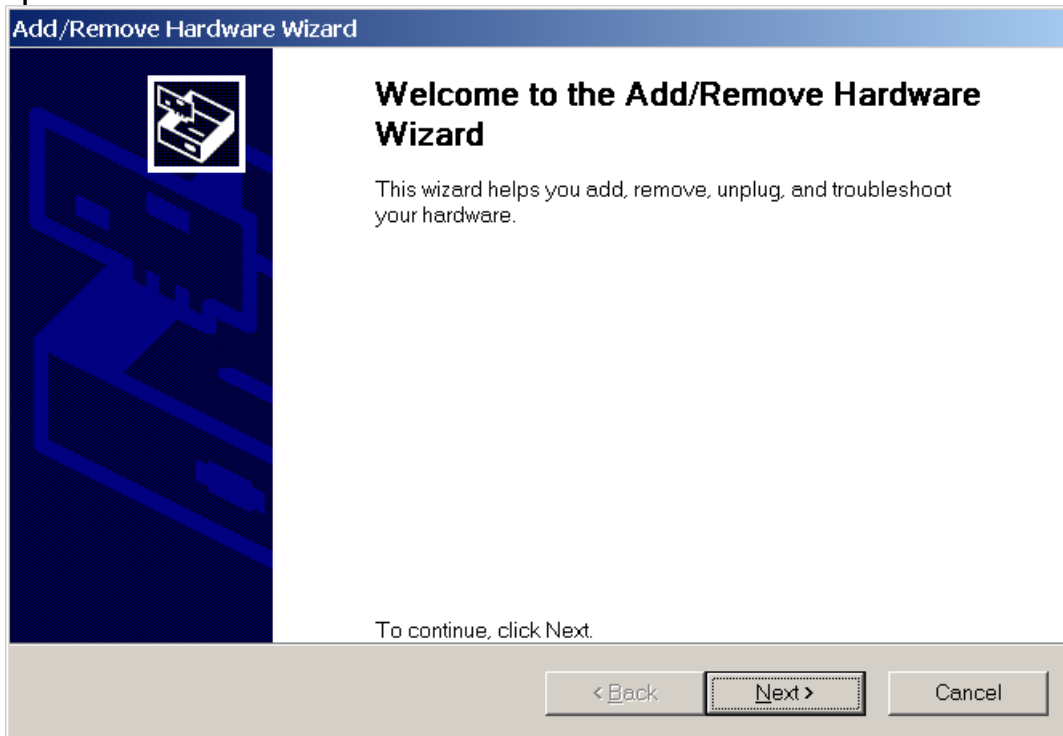
Step 3-6. Select the "Add/Troubleshoot a device" item.
Step 3-7. Click the "Next >" button.
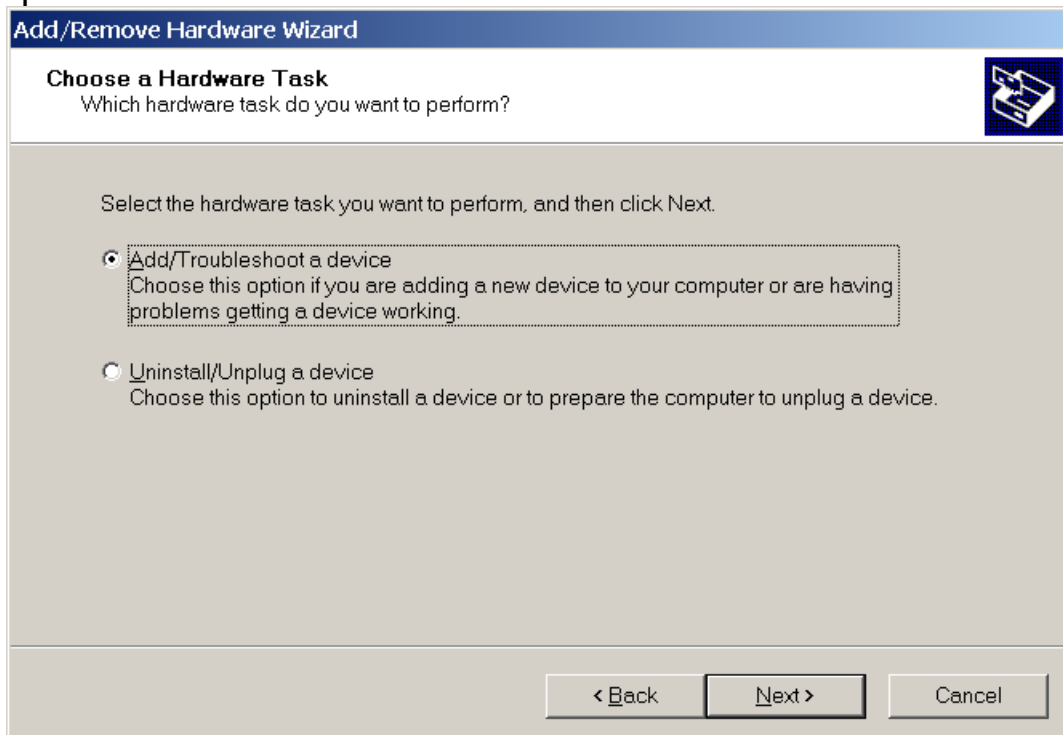
Step 3-8. Click the "Browse…" button to select the proper directory in which to store the PnP Information file.

Step 3-9. Click the "OK" button.
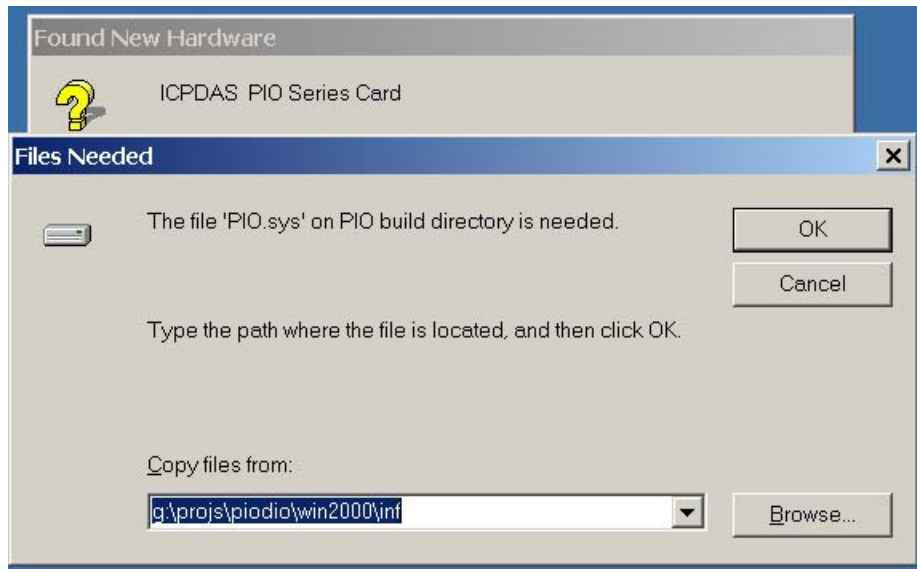
Step 3-10. Select the proper device and click "Next >".
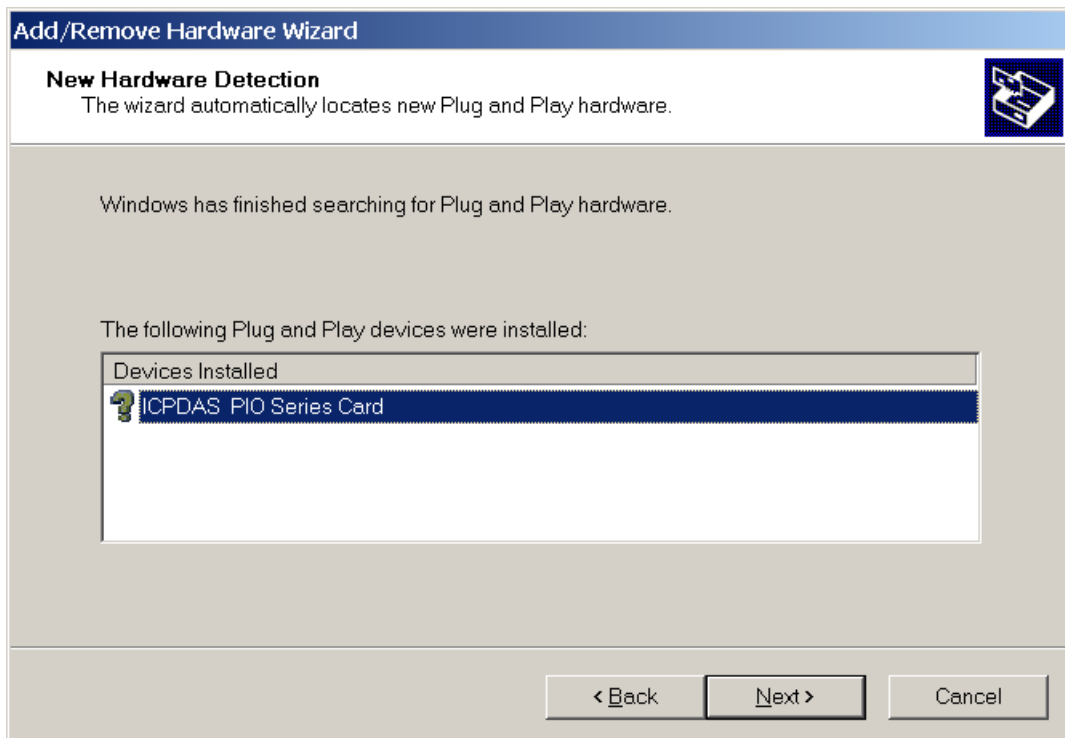
Step 3-11. Click "Finish" to finish this process.

4   ISA PnP for Win2000/XP

Windows 2000/XP supports the Plug & Play mechanism to allocate resources. But the hardware of the ISA AD/DA and DI/DO card don't support PnP. In this case, Windows 2000/XP will not be able to detect the ISA AD/DA and DI/DO card automatically.

For allocating resources correctly, we provide a PnP information file (*.INF) for the ISA AD/DA and DI/DO card. The ISA AD/DA and DI/DO card use the information file to request the resources from Windows 2000/XP.

It is recommended to first install the PnP information file and then set the requested resources correctly. After the resources have been allocated, set the jumper or switch of the ISA AD/DA and DI/DO card to match the allocated resources.

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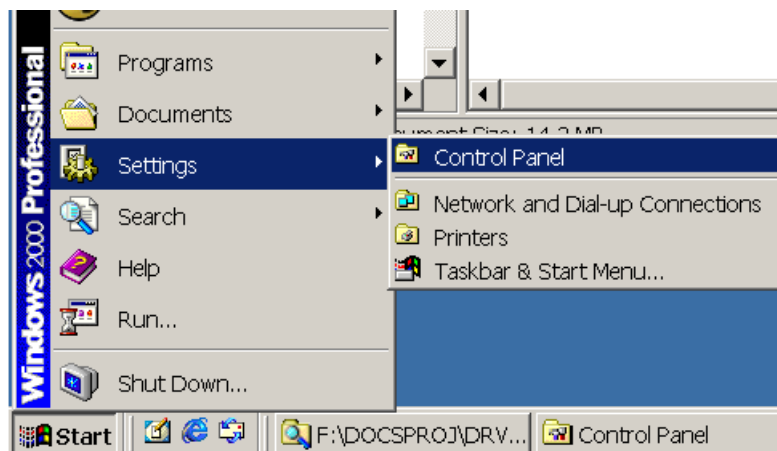
Step 4-2. Double-click the item "Add/Remove Hardware".
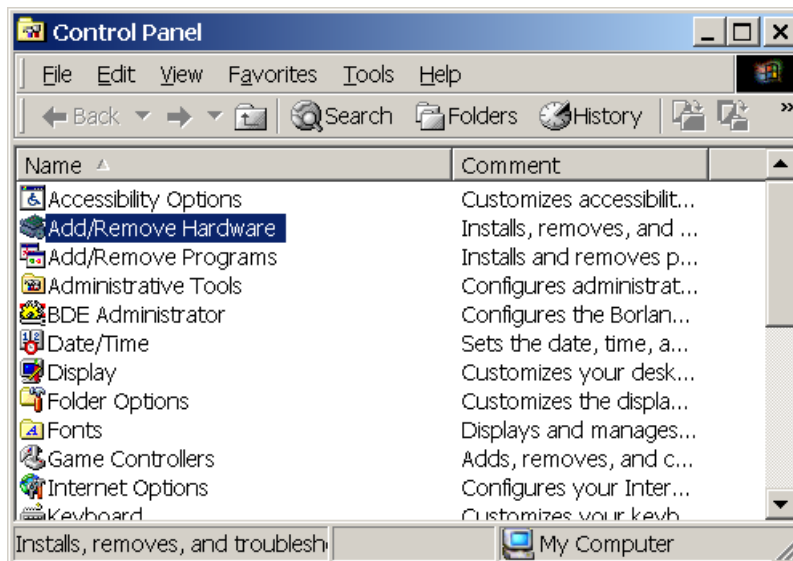
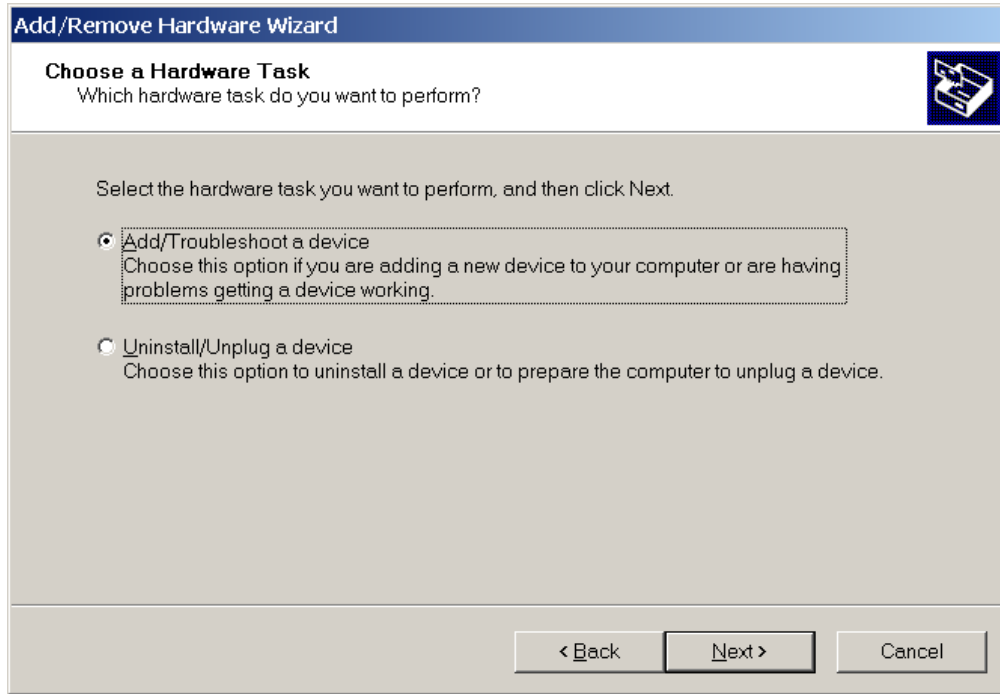Step 4-3. Click the "Next >" button.
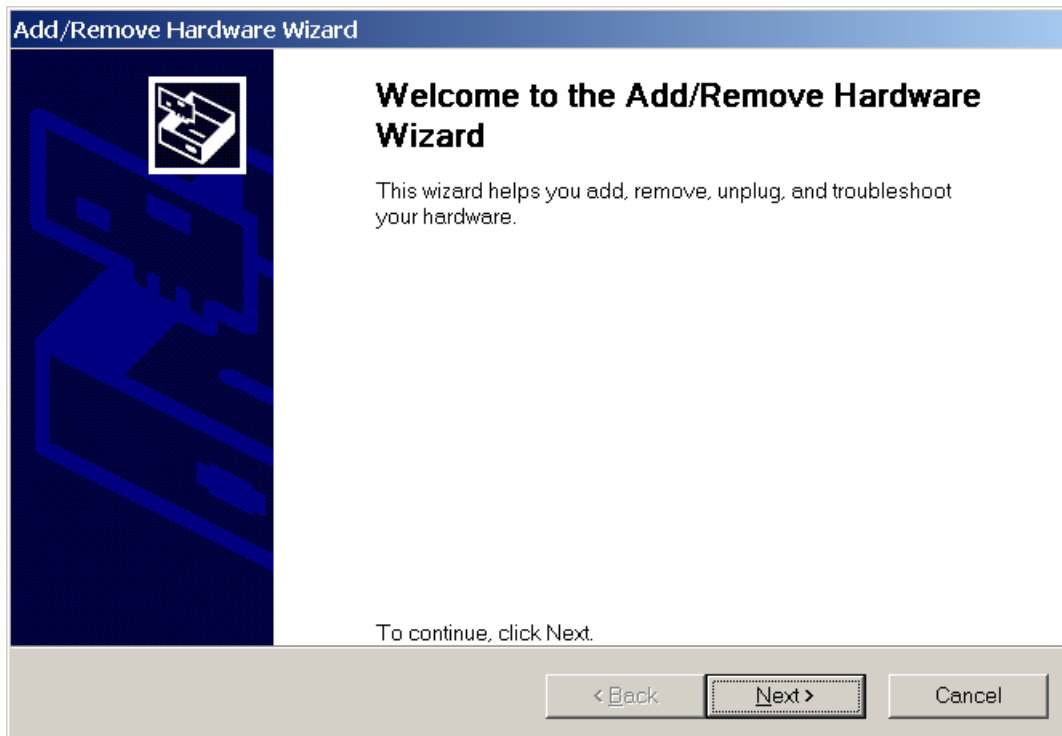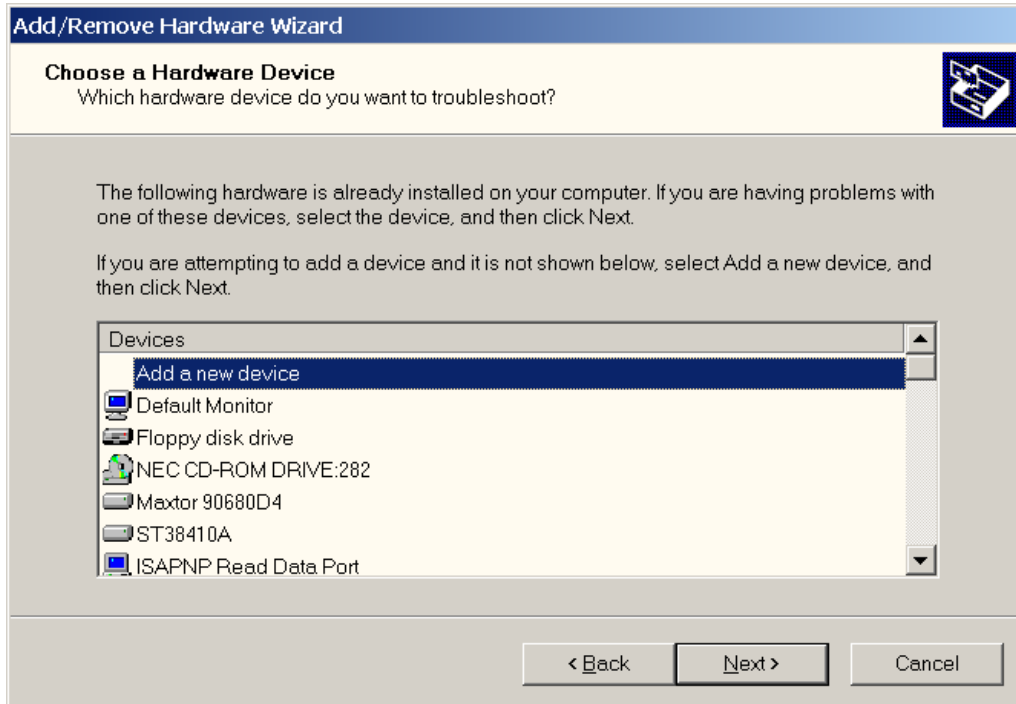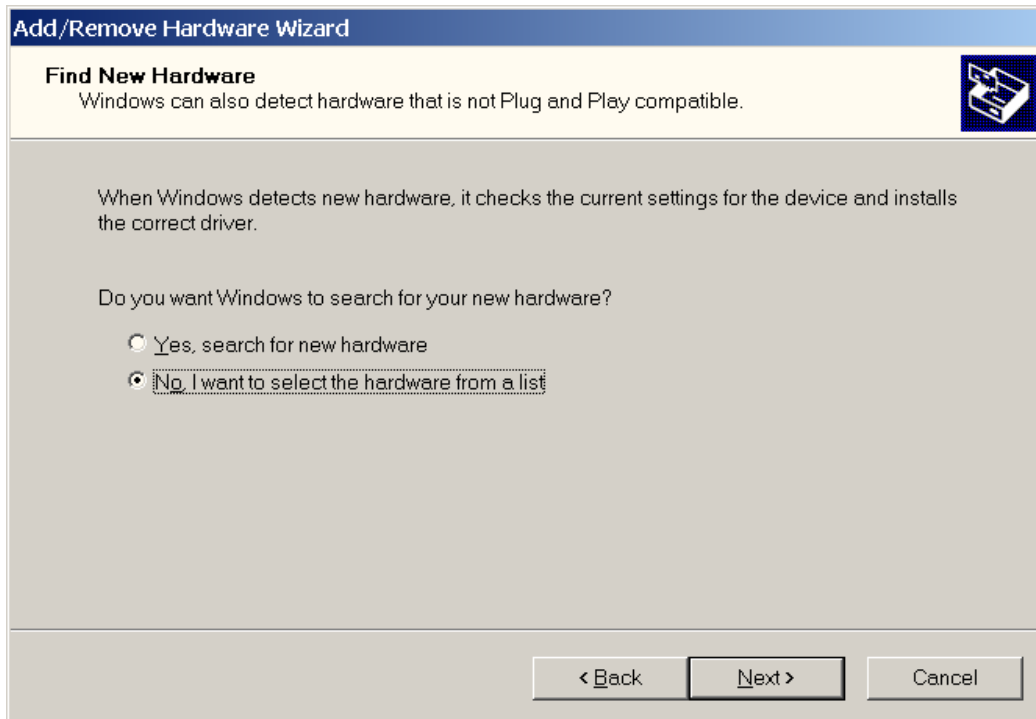
Step 4-4. Select the item "Add/Troubleshoot a device" and click the "Next >" button.
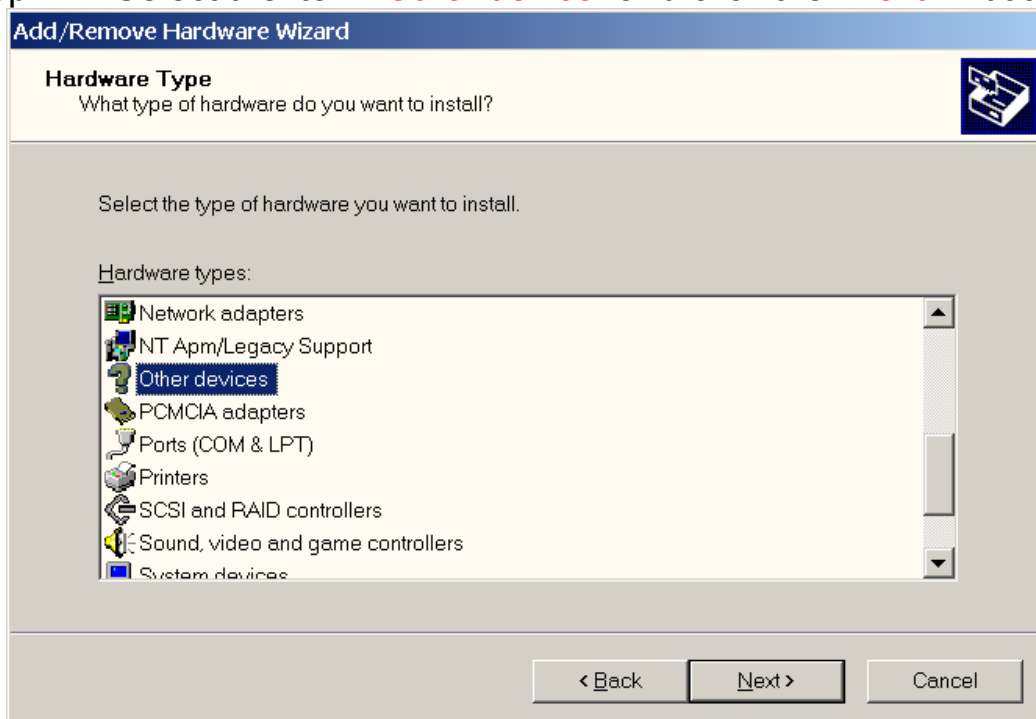

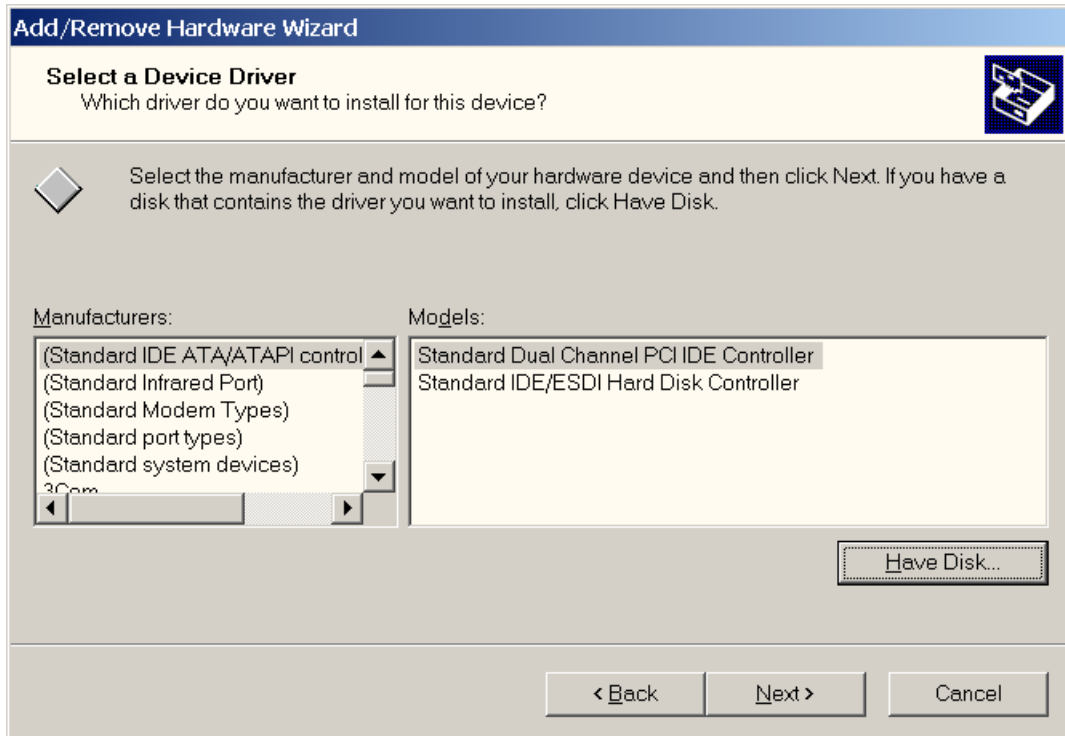Step 4-5. Select the item "Add a new device" and click the "Next >" button.

Step 4-6. Select the item "No, I want to select the hardware from a list" and click the "Next >" button.

Add/Remove Hardware Wizard

Find New Hardware
Windows can also detect hardware that is not Plug and Play compatible.

When Windows detects new hardware, it checks the current settings for the device and installs the correct driver.

Do you want Windows to search for your new hardware?

○ Yes, search for new hardware

◉ No, I want to select the hardware from a list

[< Back] [Next >] [Cancel]

Step 4-7. Select the item "Other device" and click the "Next >" button.

Add/Remove Hardware Wizard

Hardware Type
What type of hardware do you want to install?

Select the type of hardware you want to install.

Hardware types:

- Network adapters
- NT Apm/Legacy Support
- Other devices
- PCMCIA adapters
- Ports (COM & LPT)
- Printers
- SCSI and RAID controllers
- Sound, video and game controllers
- System devices

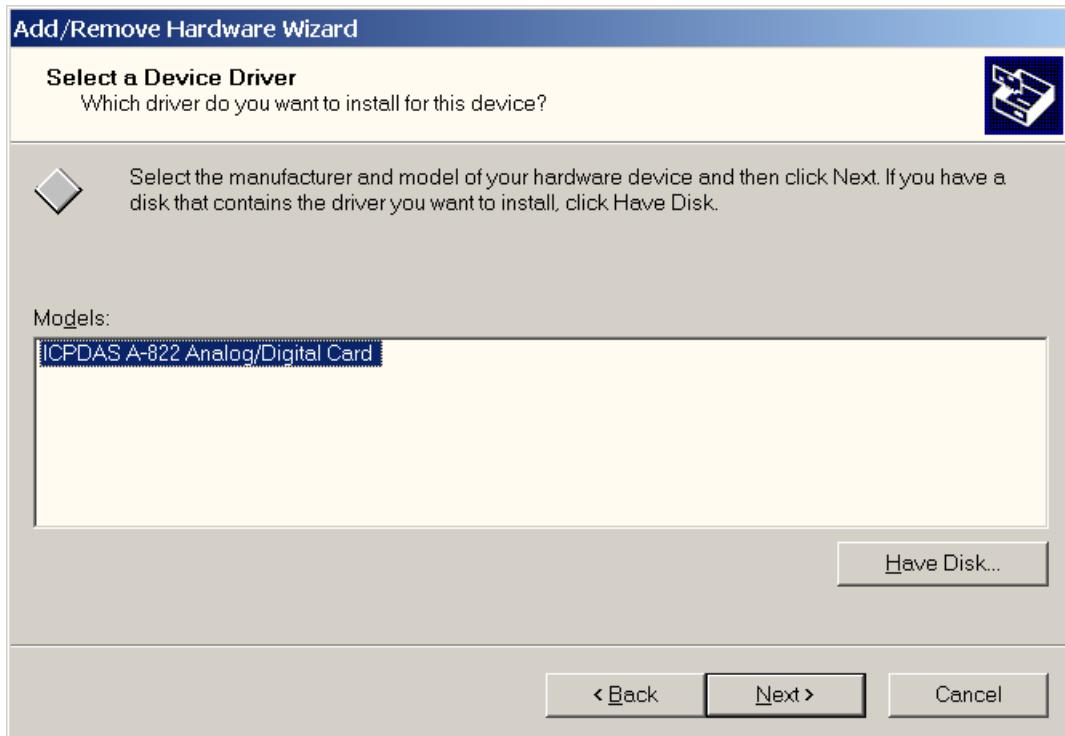[< Back] [Next >] [Cancel]

Step 4-8. Click the "Have Disk…" button.

Step 4-9. Click the "Browse…" button to select the correct PnP information file (*.inf) depending on your device.
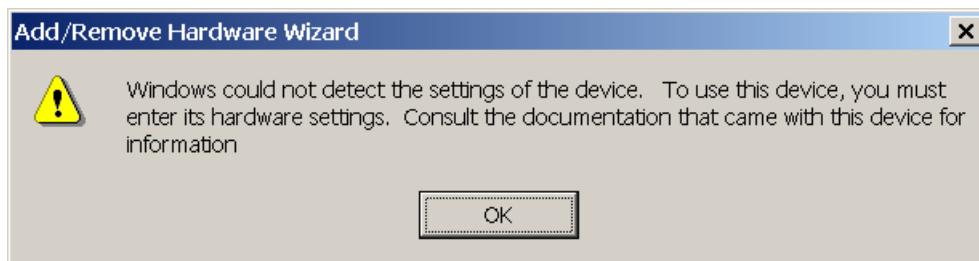
Step 4-10. Click the "OK" button.
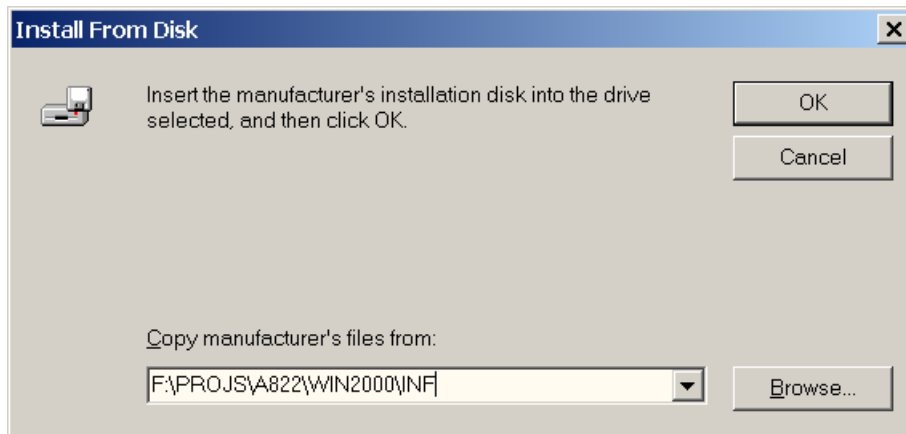
Step 4-11. Select the correct device from the "Models:" listbox.

Step 4-12. Click the "Next >" button.

Step 4-13. The window "Add/Remove Hardware Wizard" pops up and says "Windows Could not detect the settings of the device. To use this device, you must enter its hardware settings. Consult the documentation that came with this device for information."

Step 4-14. Click the "OK" button to enter the device's settings.

Step 4-15. Double-click on the "Input/Output Range" and "Interrupt Request" items to set the device's resource.
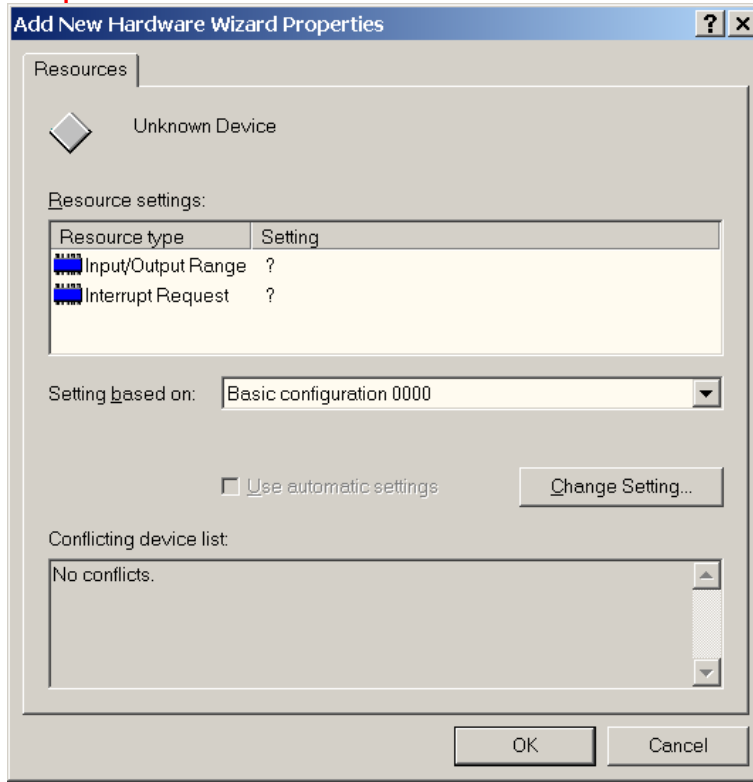
Step 4-16. Choose a "Value:" for the "Input/Output Range", which doesn't conflict with other devices.
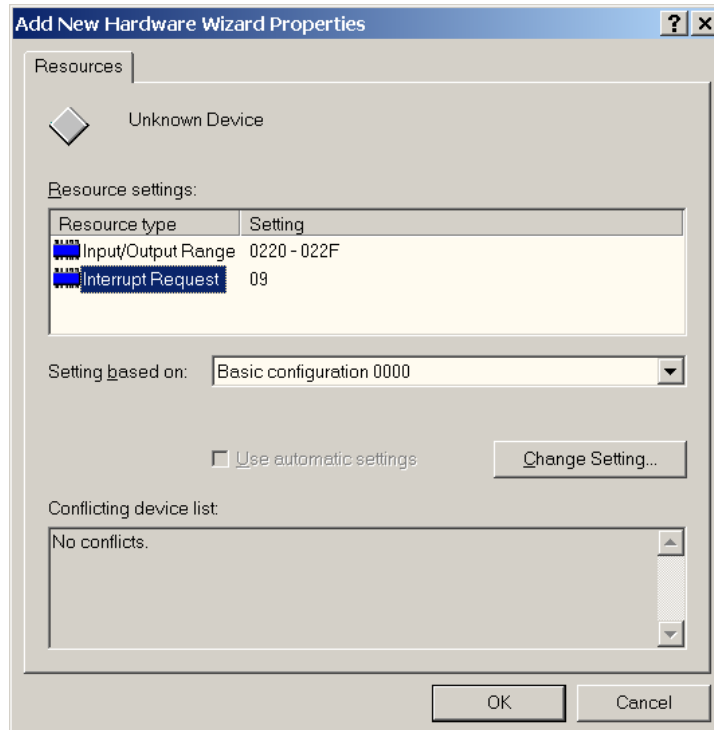
Step 4-17. Click the "OK" button.
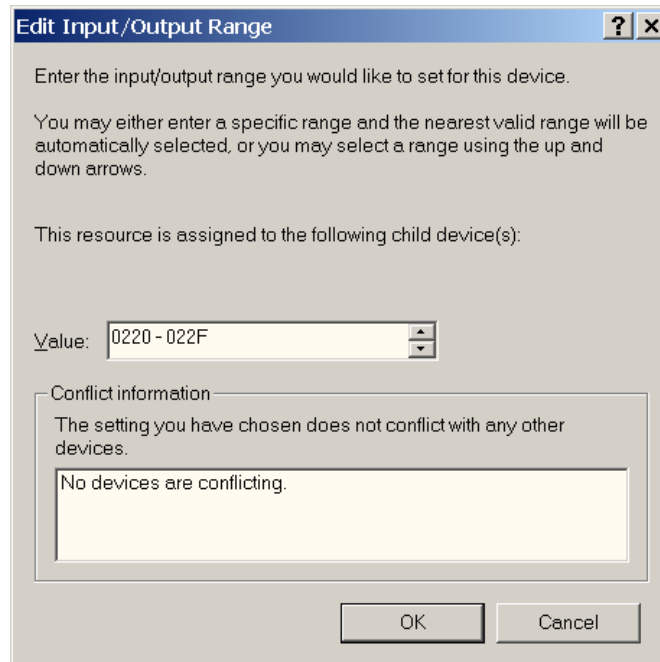
Step 4-18. Choose a "Value:" for the "Interrupt Request", which doesn't conflict with other devices.
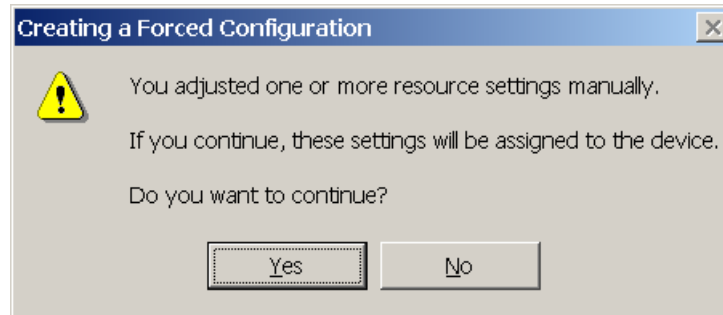
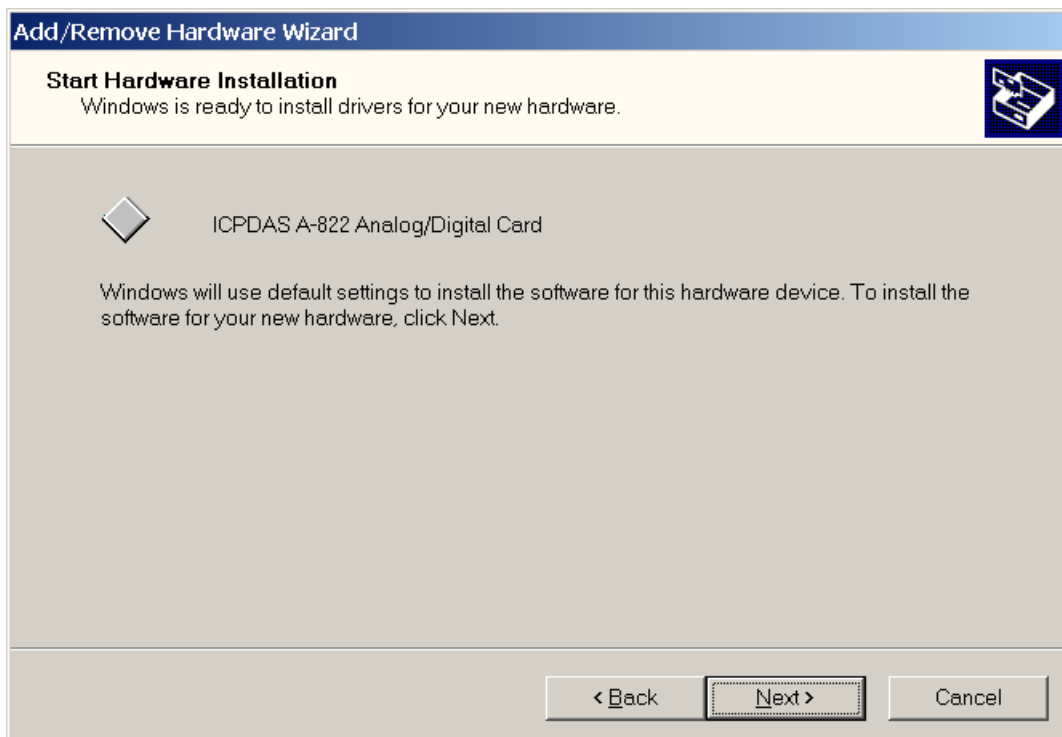Step 4-19. Click the "OK" button.
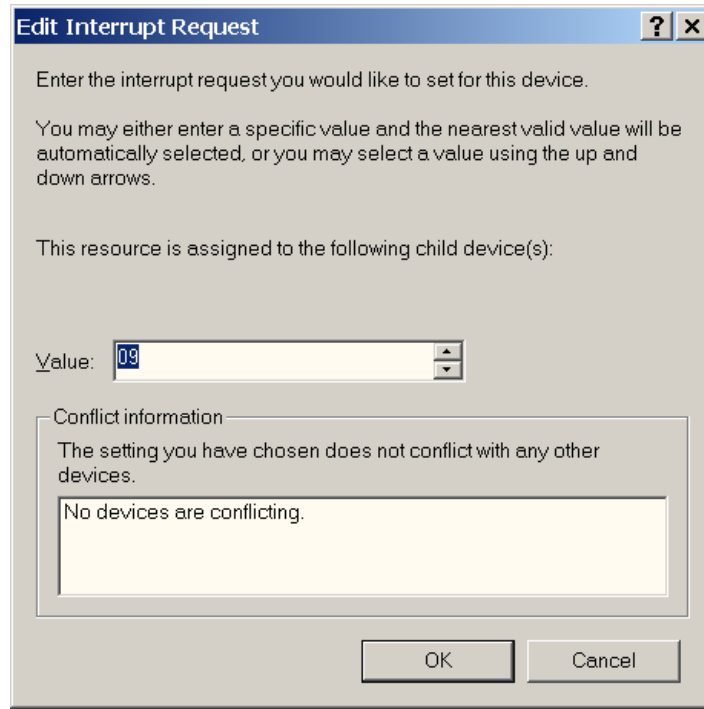
Step 4-20. Click the "OK" button.

Step 4-21. The "Creating a Forced Configuration" window pops up and says : "You adjusted one or more resource settings manually. If you continue, these settings will be assigned to the device. Do you want to continue?".
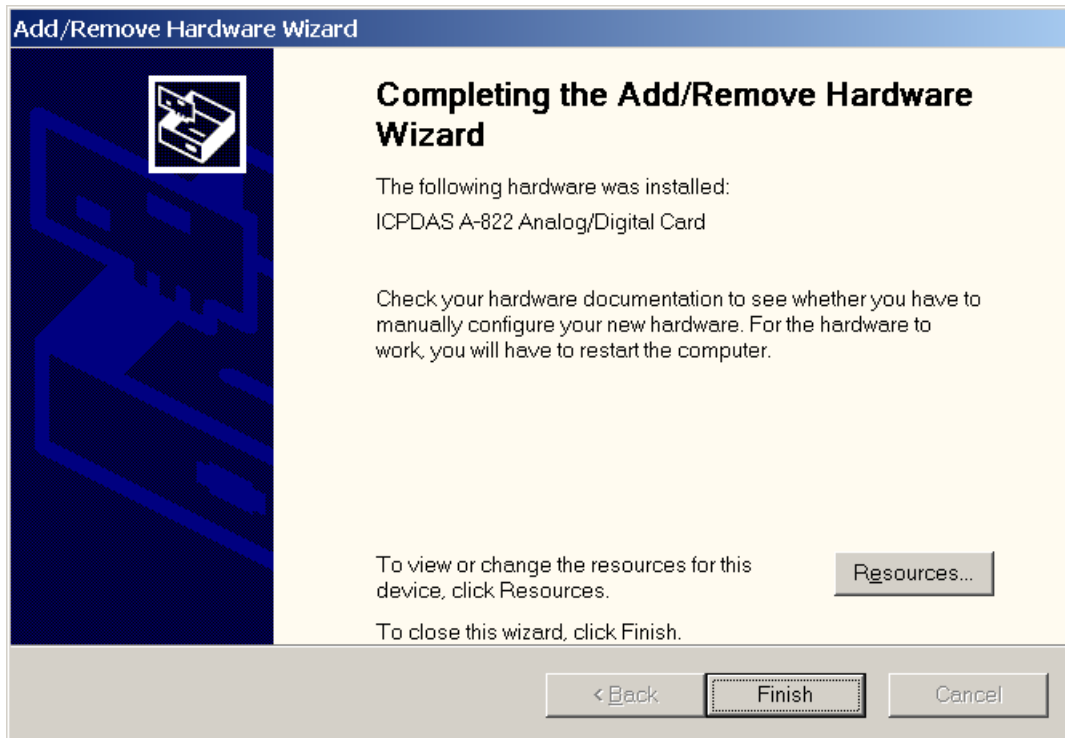
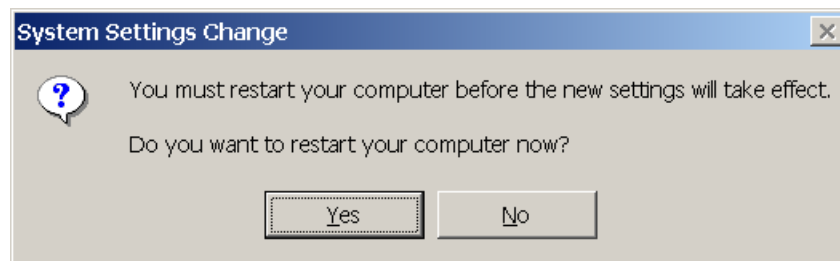Step 4-22. Click the "Yes" button.

Step 4-23. Click the "Next >" button.

Step 4-24. Click the "Finish" button.

Step 4-25. The "System Settings Change" window pops up and says :
"You must restart your computer before the new settings
will take effect. Do you want to restart your computer
now?".

Step 4-26. Click the "Yes" button to restart your computer.

Step 4-27. Right-Click the "My Computer" icon and click the menu item "Manage" to launch "Computer Management".
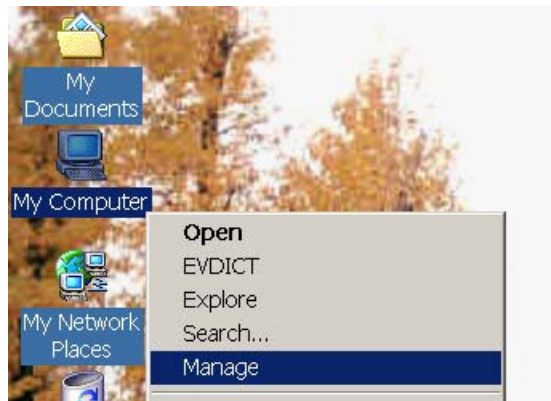
Step 4-28. Click the "Device Manager" and the user will be able to see that the device had been added.