User's Guide

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OME-SERIES DATA ACQUISITION CARDS

PnP Driver Installation User Manual

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WARNING: These products are not designed for use in, and should not be used for, patient-connected applications.

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1 Introduction

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

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

To determine the PnP Information file (PnP Driver) for your device, please refer to the "Readme.TXT" file that is included with the Development Toolkit.

2 PCI PnP for Win95/98

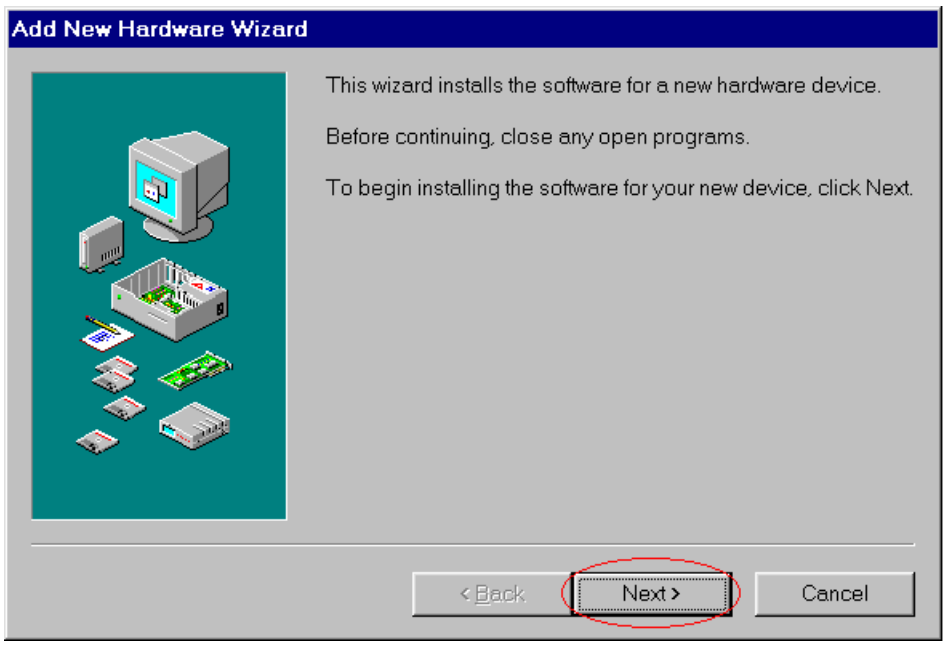
Step 2-1. Power-off your computer.

Step 2-2. Plug the PCI DAQ card into your computer's mother-board.

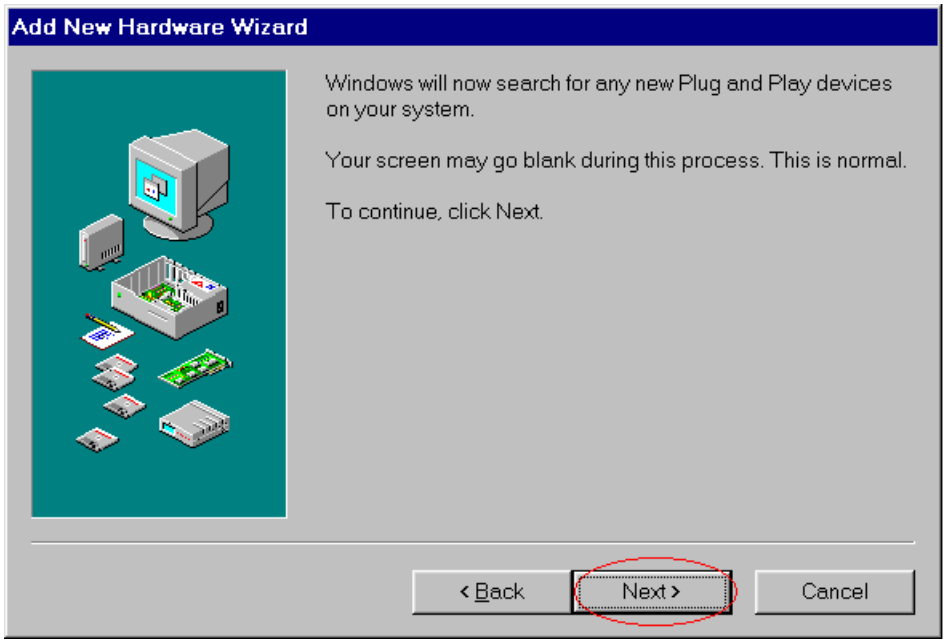
Step 2-3. Power-on your computer.

Step 2-4. The "Add New Hardware Wizard" window will pop up. The user can also launch the "Add New Hardware Wizard" window by clicking on the "Add New Hardware" icon in the "Control Panel" folder.

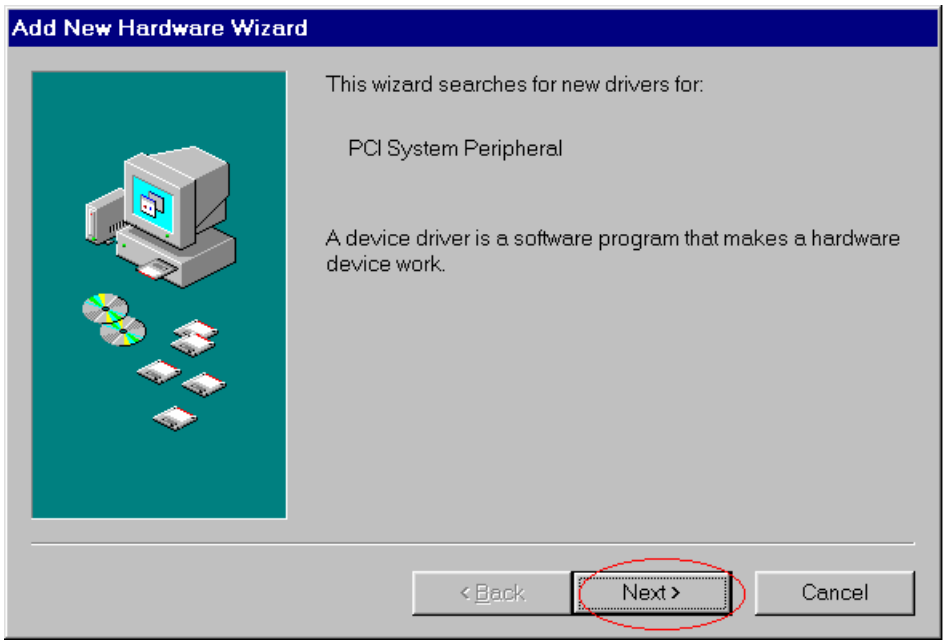
Step 2-5. Click the "Next >" button.



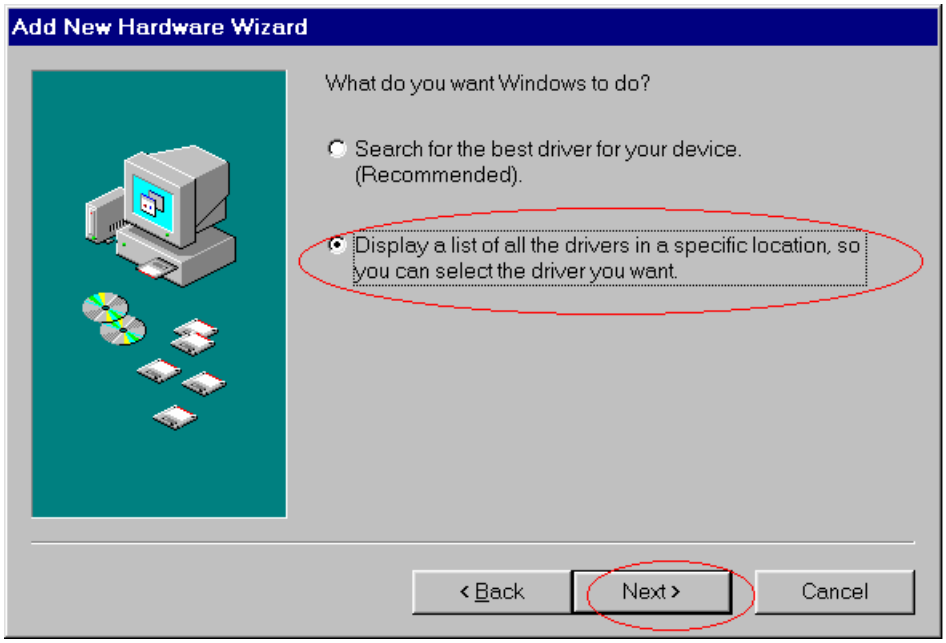
Step 2-6. Click the “Next >” button.



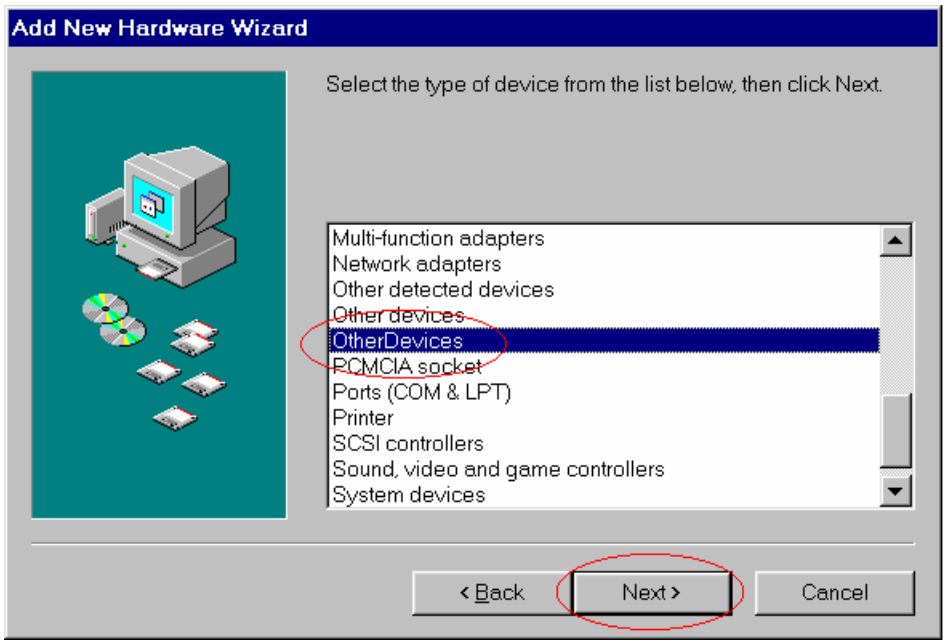
Step 2-7. Click the “Next >” button.



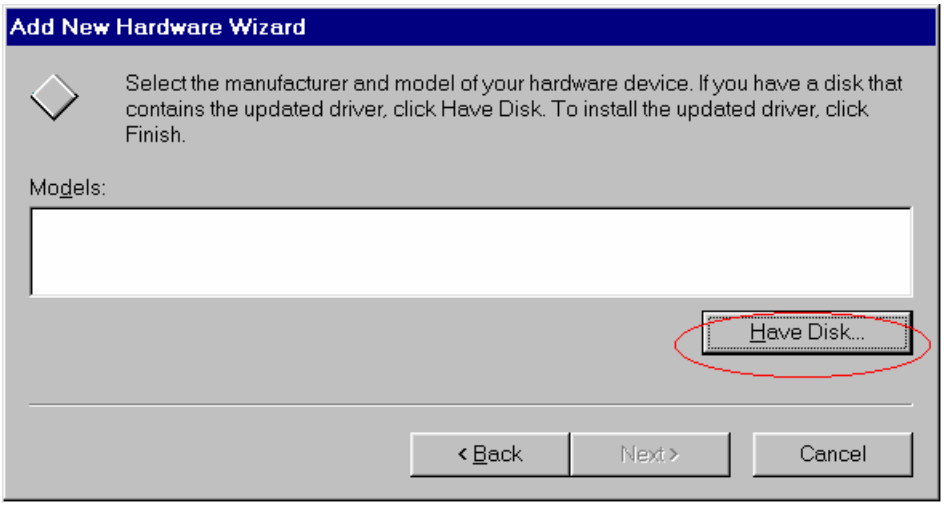
Step 2-8. Select the second item and then click the “Next >” button.



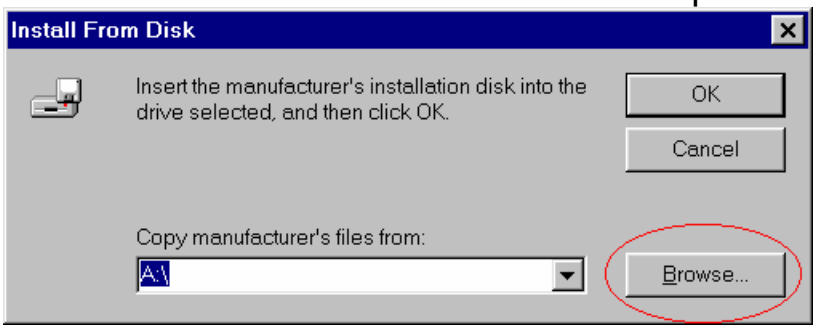
Step 2-9. Select “OtherDevices” and click “Next >” button.



Step 2-10. Click the “Have Disk…” button.

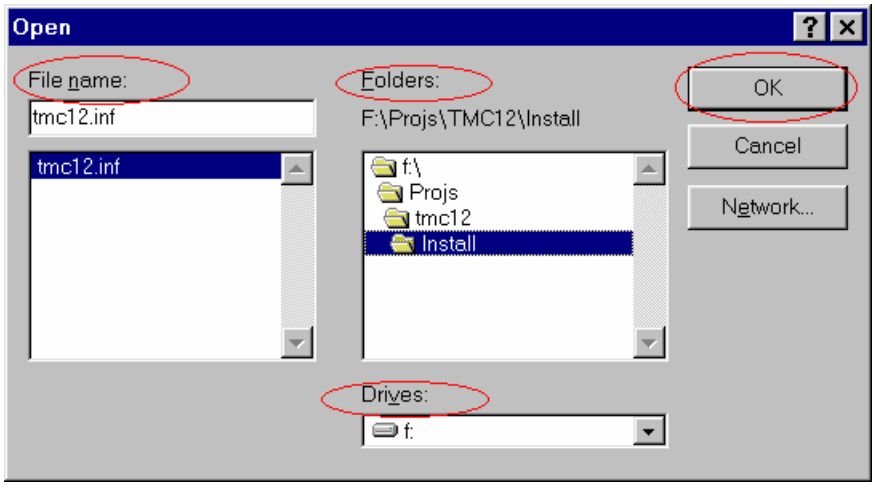


Step 2-11. Click the “Browse…” button to select the path of the driver.



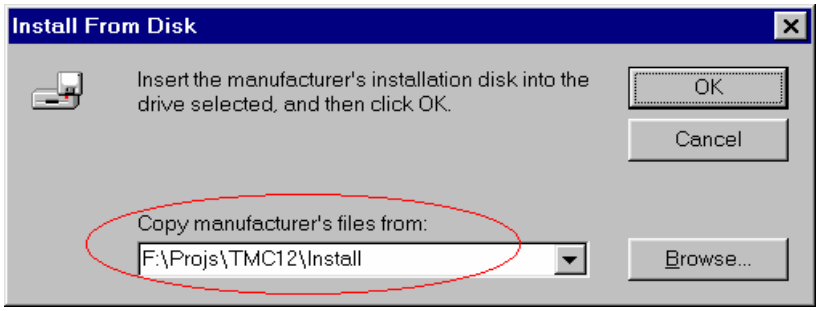
Step 2-12. Change “Drives”, “Folders” and select the correct .INF file.
These depend on the device driver that you plan to use.

Step 2-13. Click the “OK” button.



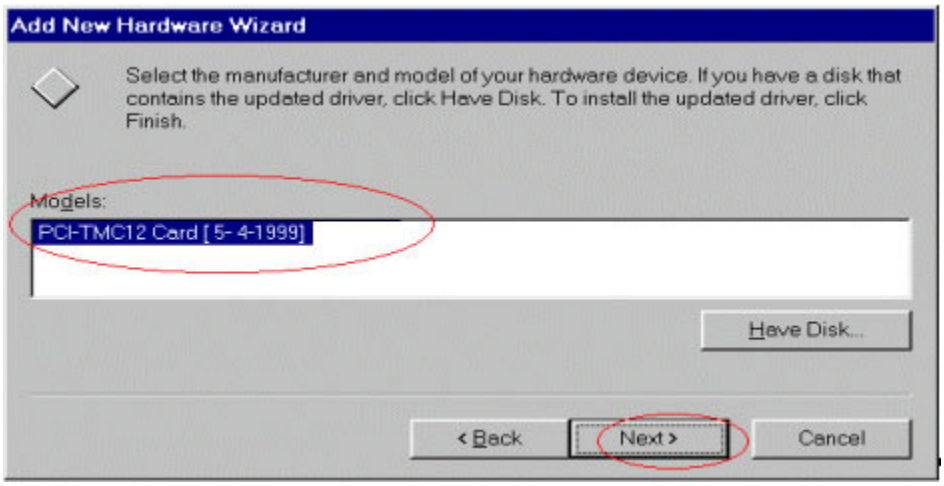
Step 2-14. Make sure that the path is correct for the PCI DAQ card.

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



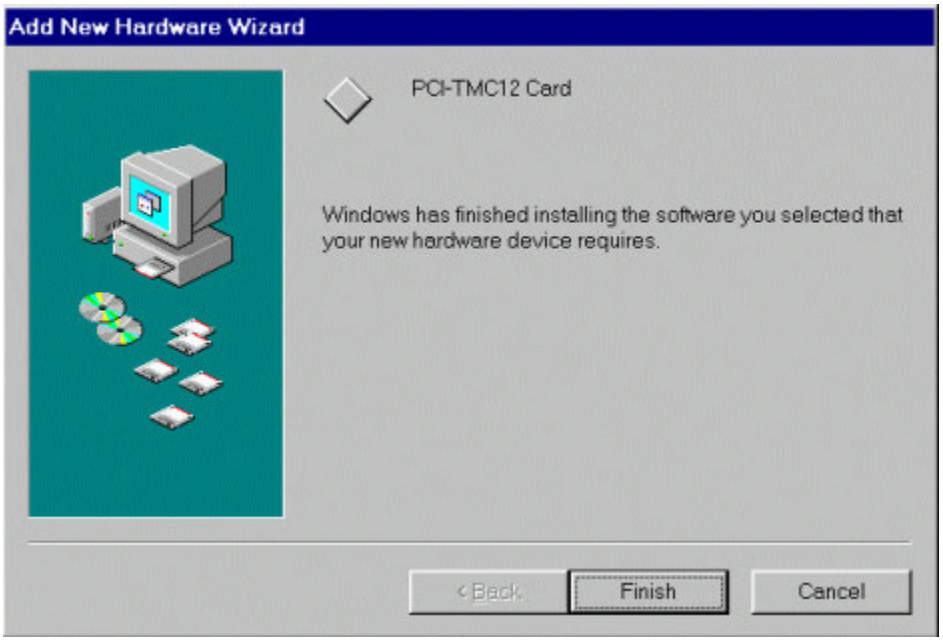
Step 2-16. Select the correct driver for the PCI DAQ card.

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



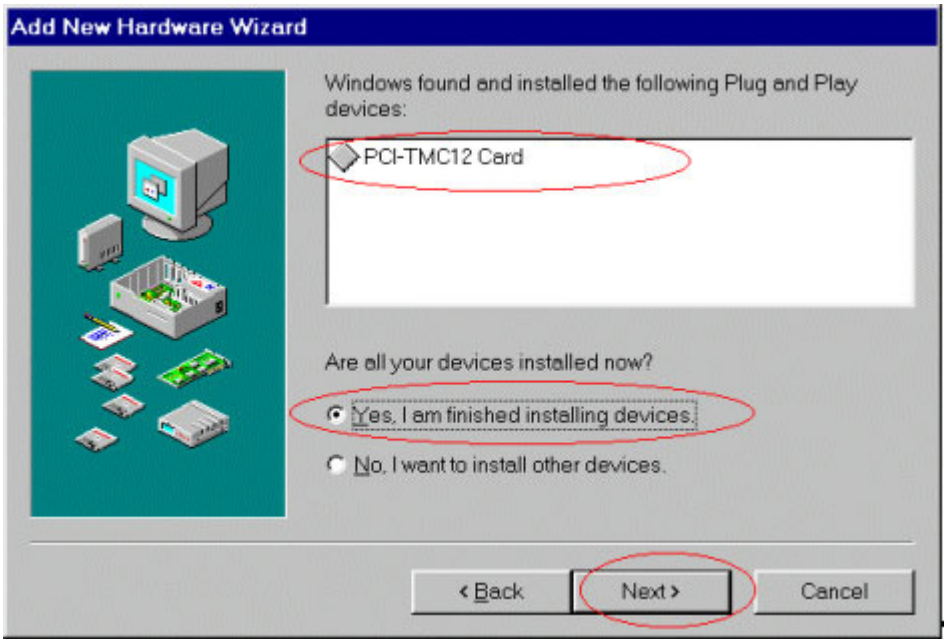
Step 2-18. Click the “Next >” button.

Step 2-19. Click the “Finish” button.

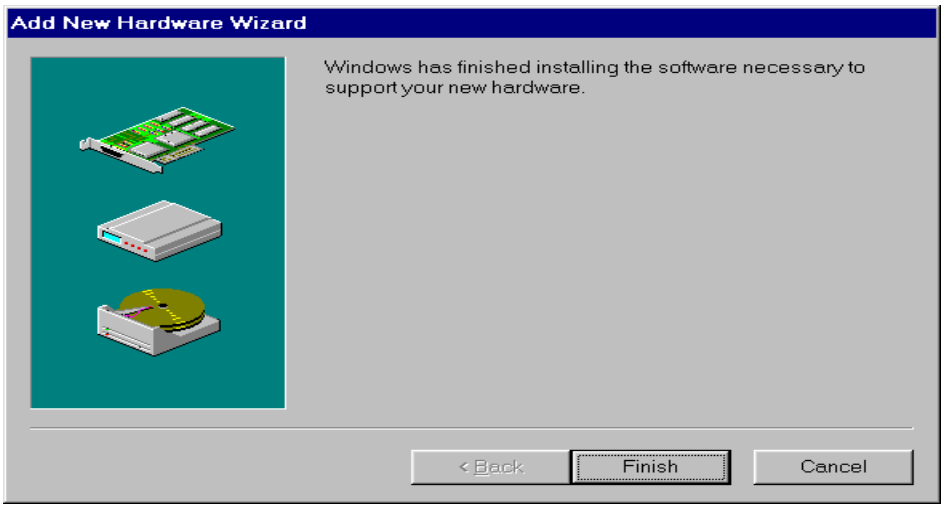


Step 2-20. Select the item “Yes, I am finished installing devices.”

Step 2-21. Click the “Next >” button.



Step 2-22. Click the “Finish” button.

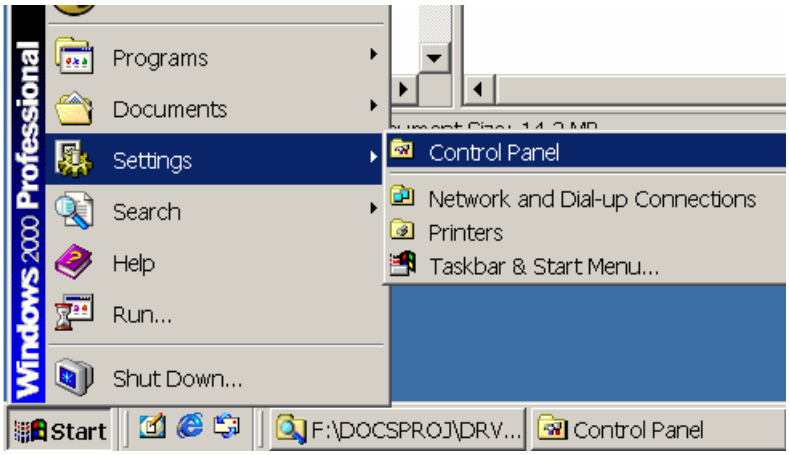


3 PCI PnP for Win2000

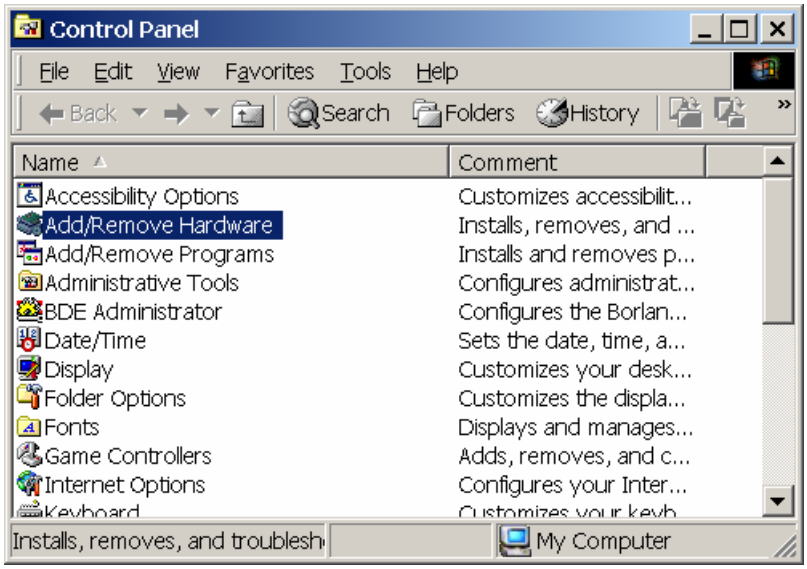
Step 3-1. Power-off your computer.
Step 3-2. Plug the PCI DAQ card into your motherboard.
Step 3-3. Power-on your computer.

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

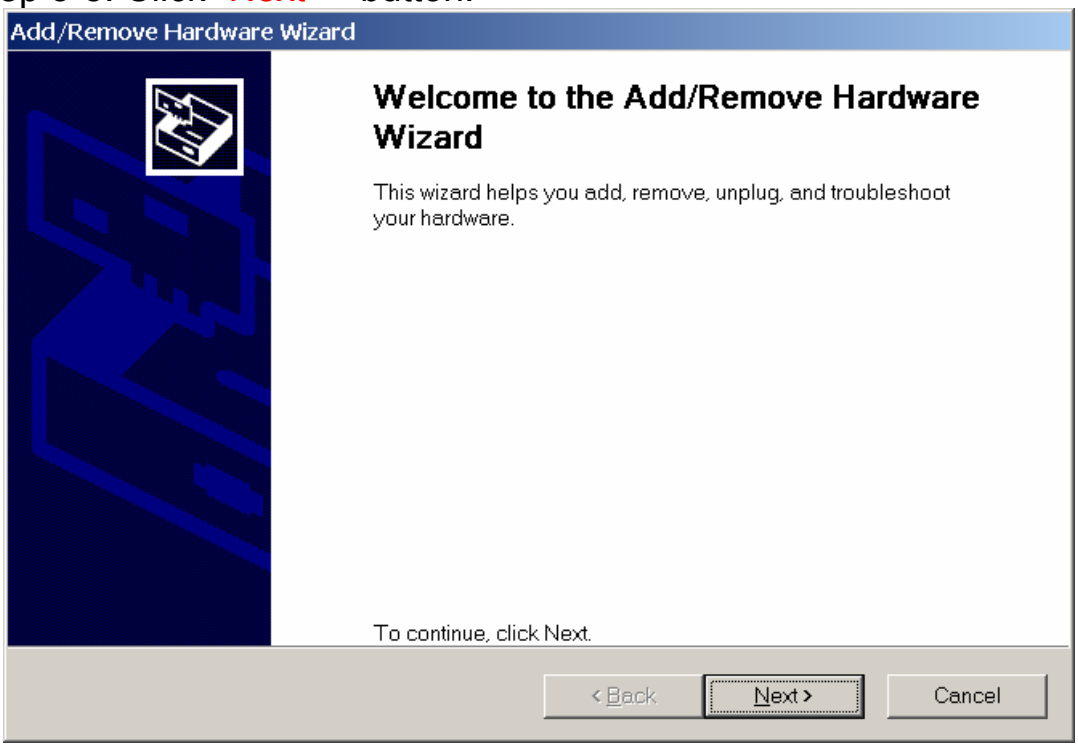
Step 3-4-1. The user can also launch the window "Add New Hardware Wizard" by clicking "Start / Settings / Control Panel".



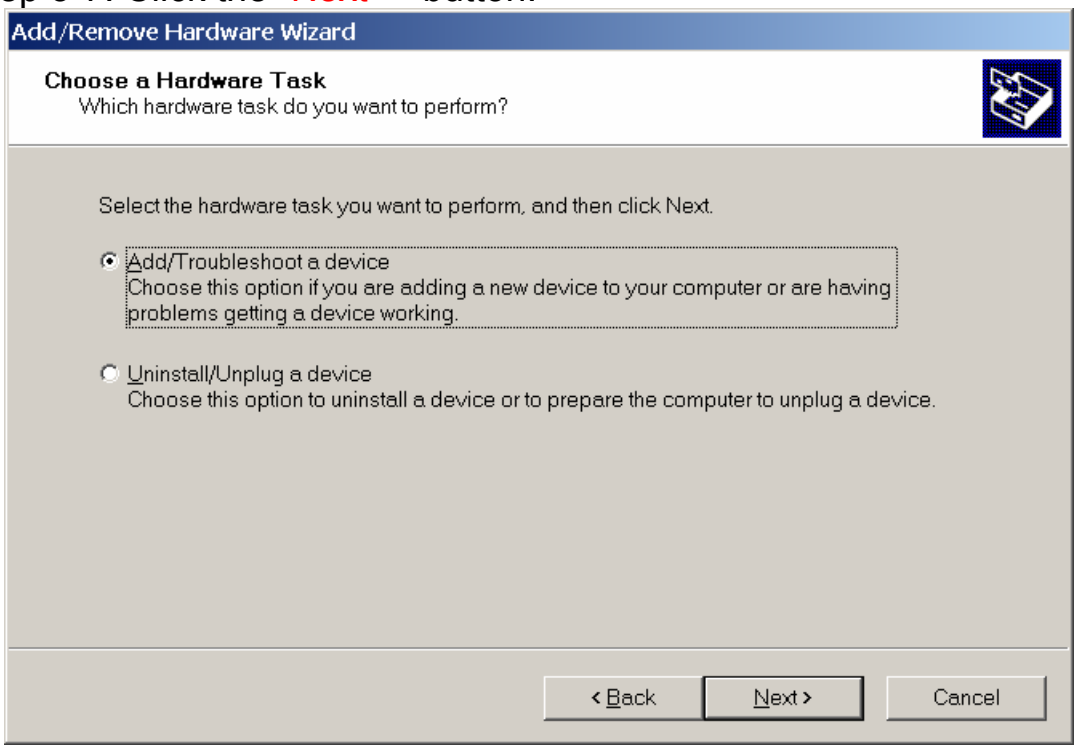
Step 3-4-2. Double-Click on "Add/Remove Hardware".



Step 3-5. Click “Next >” button.

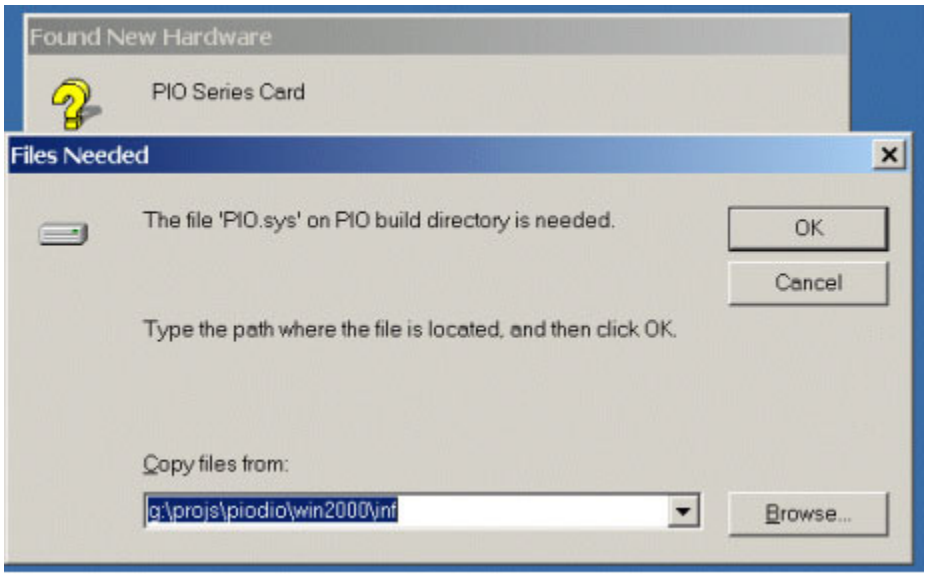


Step 3-6. Select “Add/Troubleshoot a device”.
Step 3-7. Click the “Next >” button.

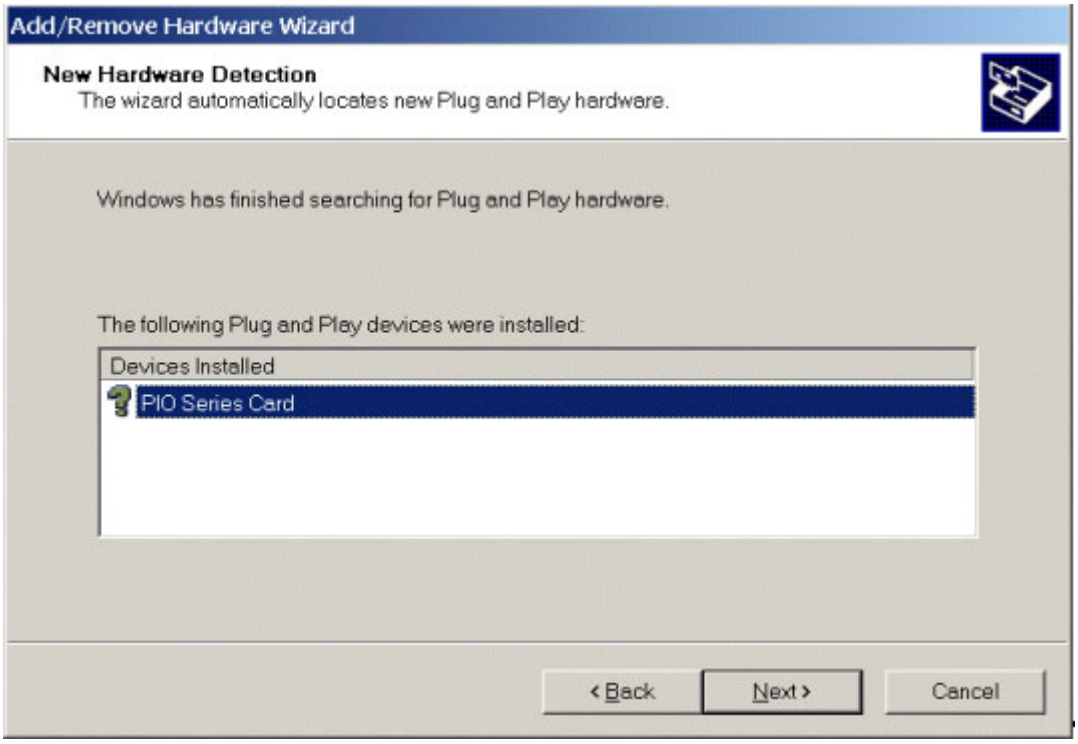


Step 3-8. Click the “Browse…” button to select the proper directory in which to store the PnP Information file.

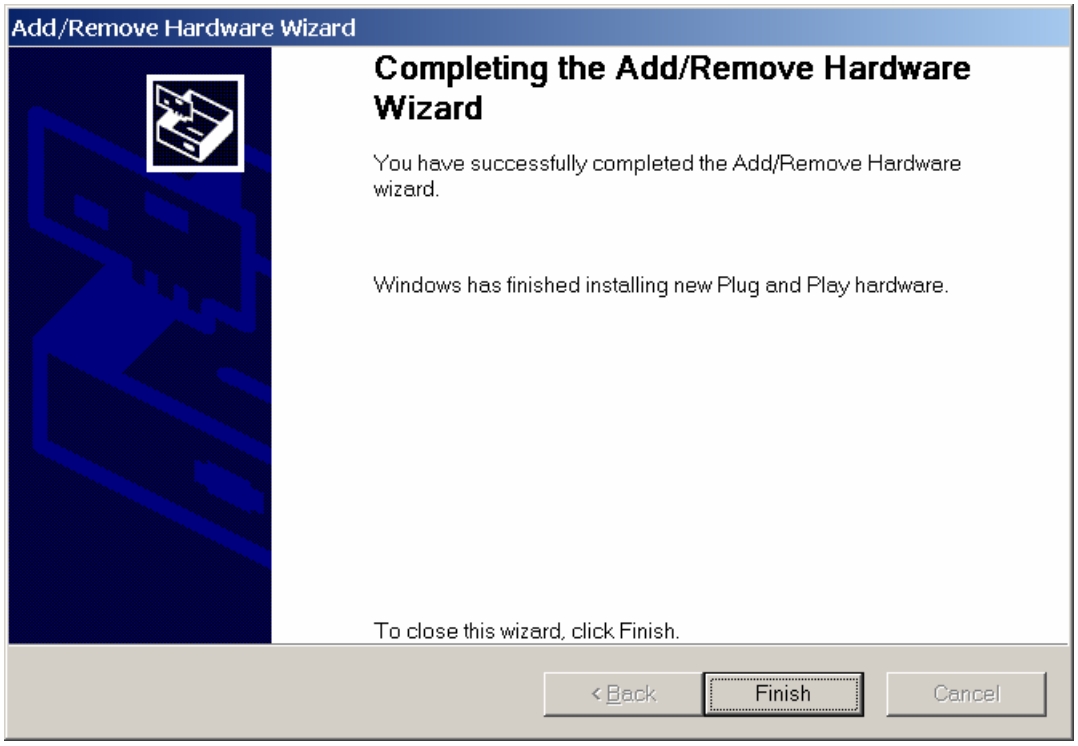
Step 3-9. Click the “OK” button.



Step 3-10. Select the proper device and click “Next >”.



Step 3-11. Click “Finish” to finish this process.



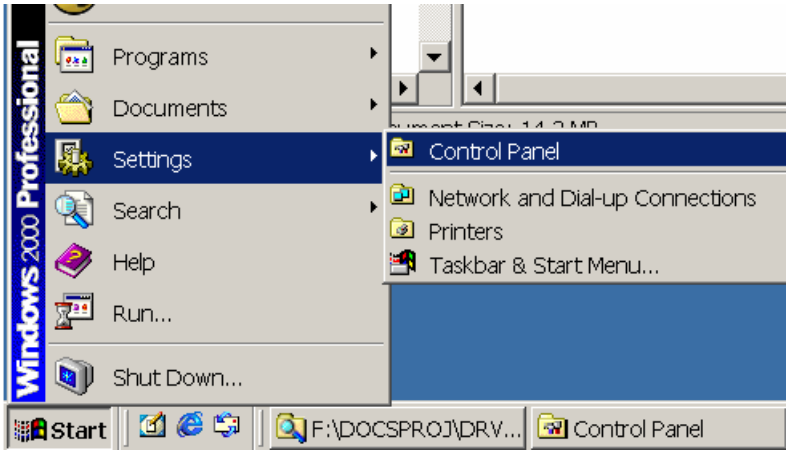
4 ISA PnP for Win2000

Windows 2000 supports the Plug & Play mechanism for allocating resources, however, the ISA data acquisition cards do not support PnP. In this case, Windows 2000 will not be able to detect the ISA cards automatically.

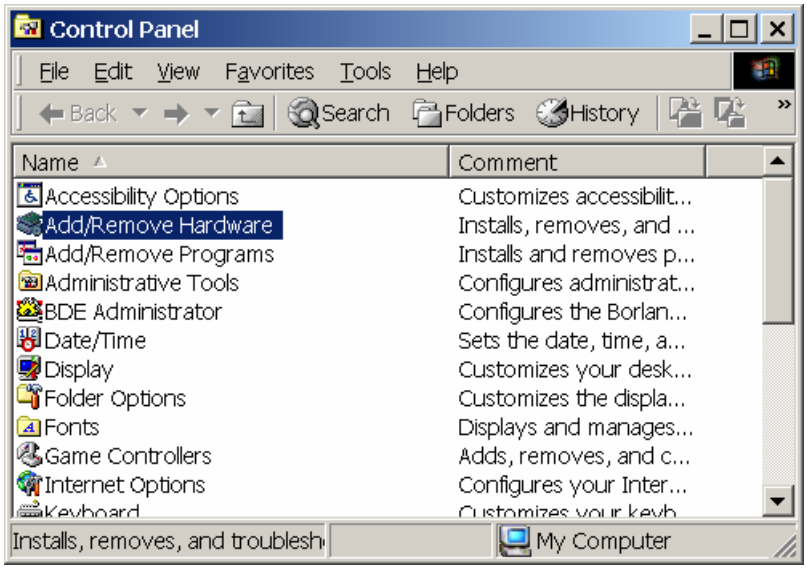
A PnP information file (*.INF) is provided for the ISA cards. The ISA cards use the information file to request the resources from Windows 2000.

It is recommended to first install the PnP information file and set the requested resources correctly. After the resources have been allocated, set the jumpers or switches on the card to match the allocated resources.

Step 4-1. Open the "Control Panel" by clicking the item "Start / Settings / Control Panel".

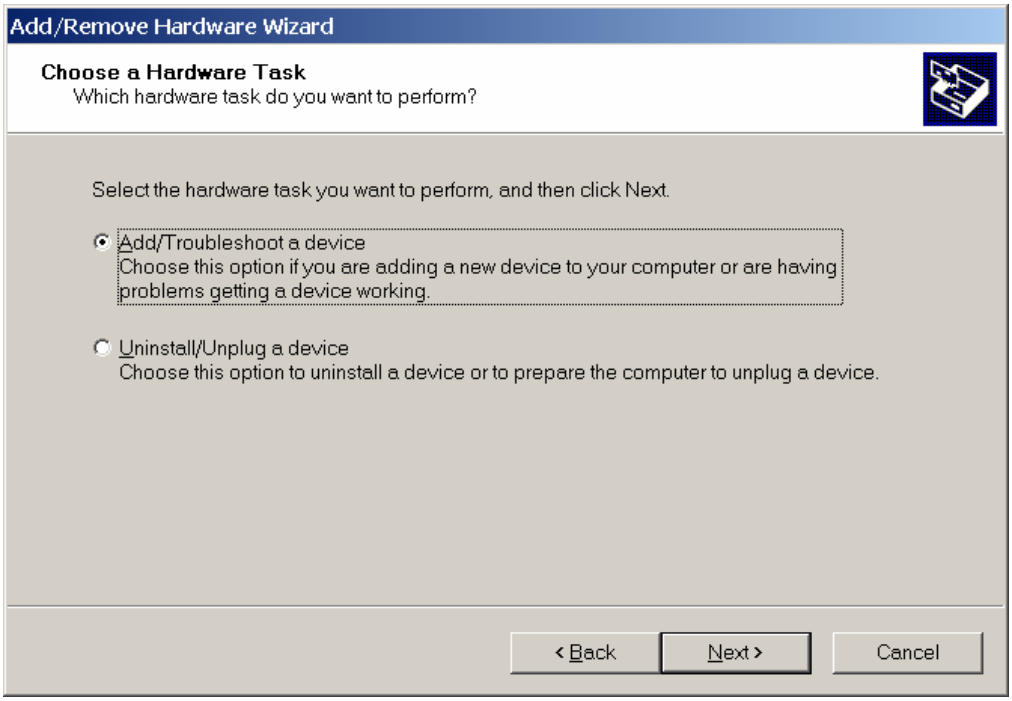


Step 4-2. Double-click the item “Add/Remove Hardware”.

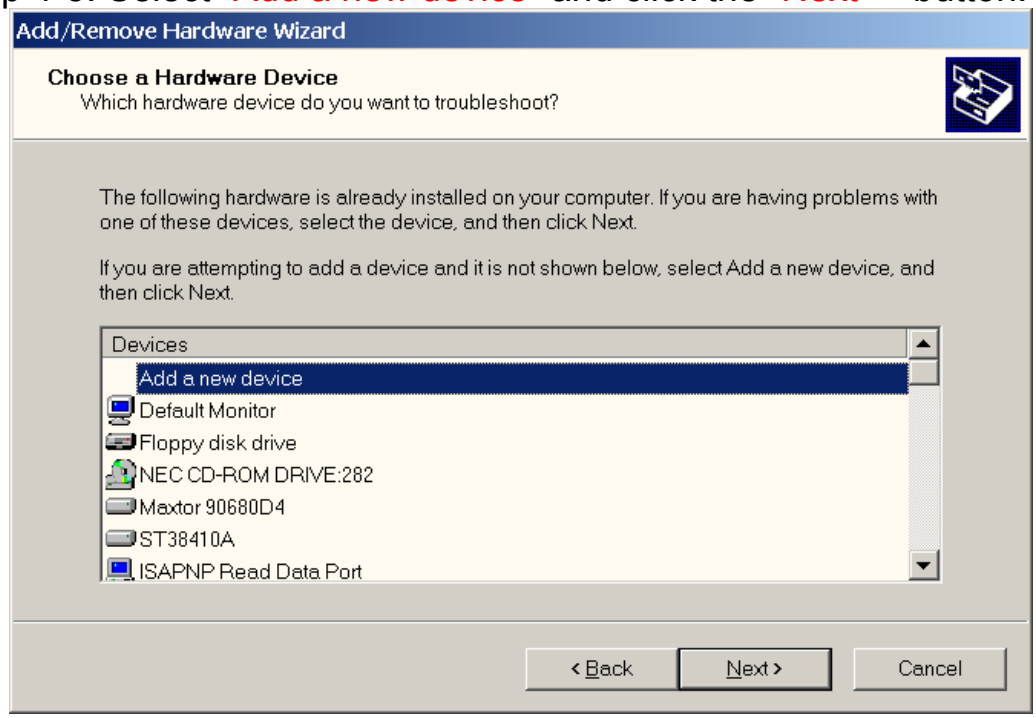


Step 4-3. Click the “Next >” button.

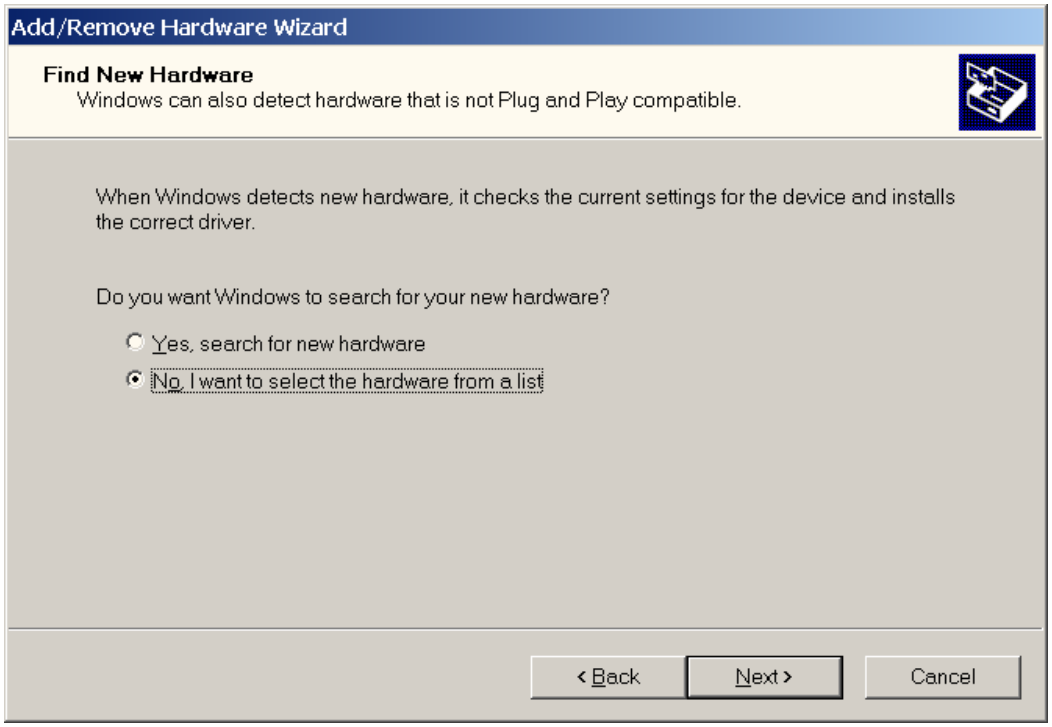
Step 4-4. Select "Add/Troubleshoot a device" and click the "Next >" button.



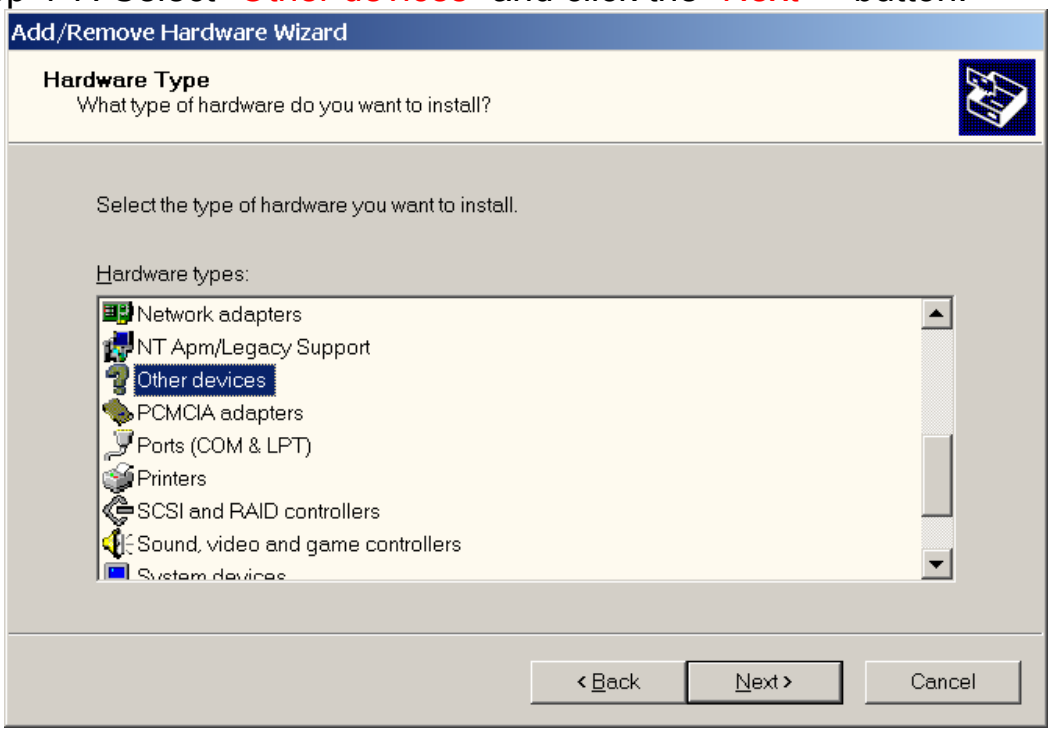
Step 4-5. Select "Add a new device" and click the "Next >" button.



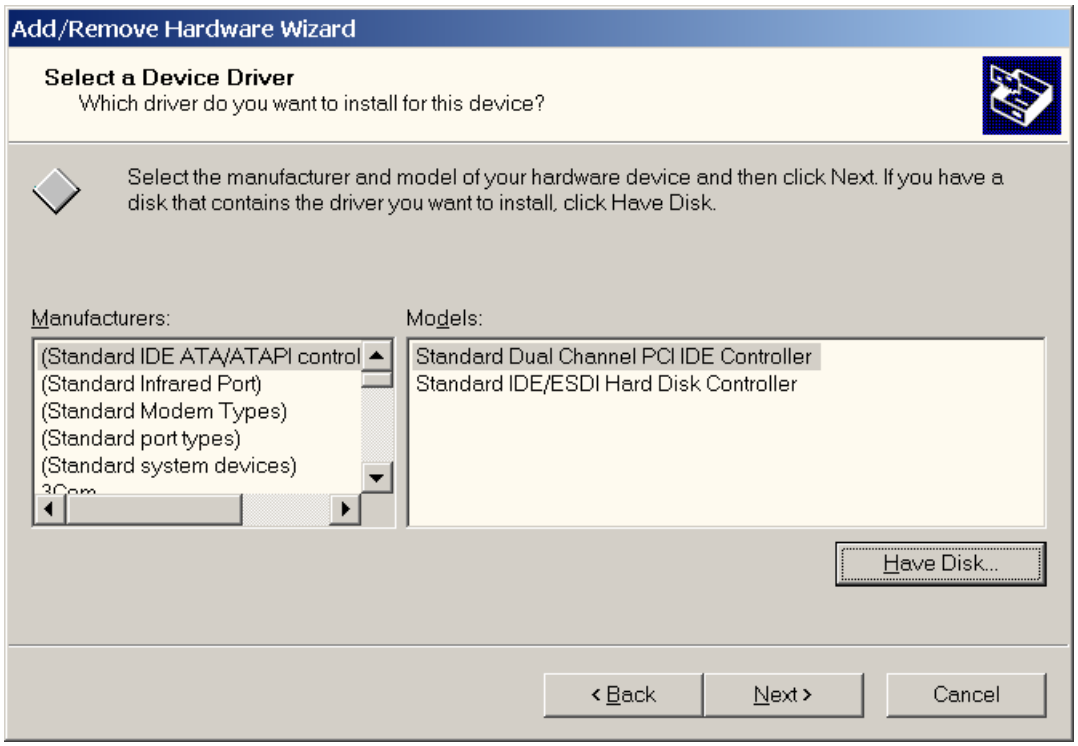
Step 4-6. Select “No, I want to select the hardware from a list” and click the “Next >” button.



Step 4-7. Select “Other devices” and click the “Next >” button.

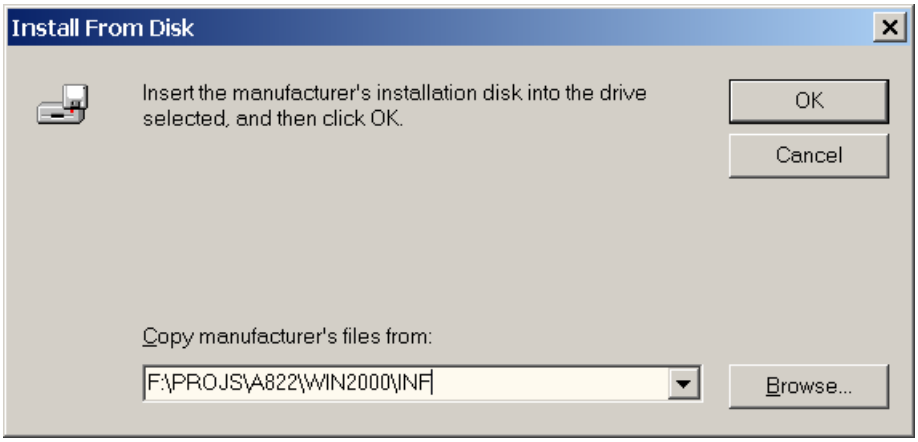


Step 4-8. Click the "Have Disk…" button.



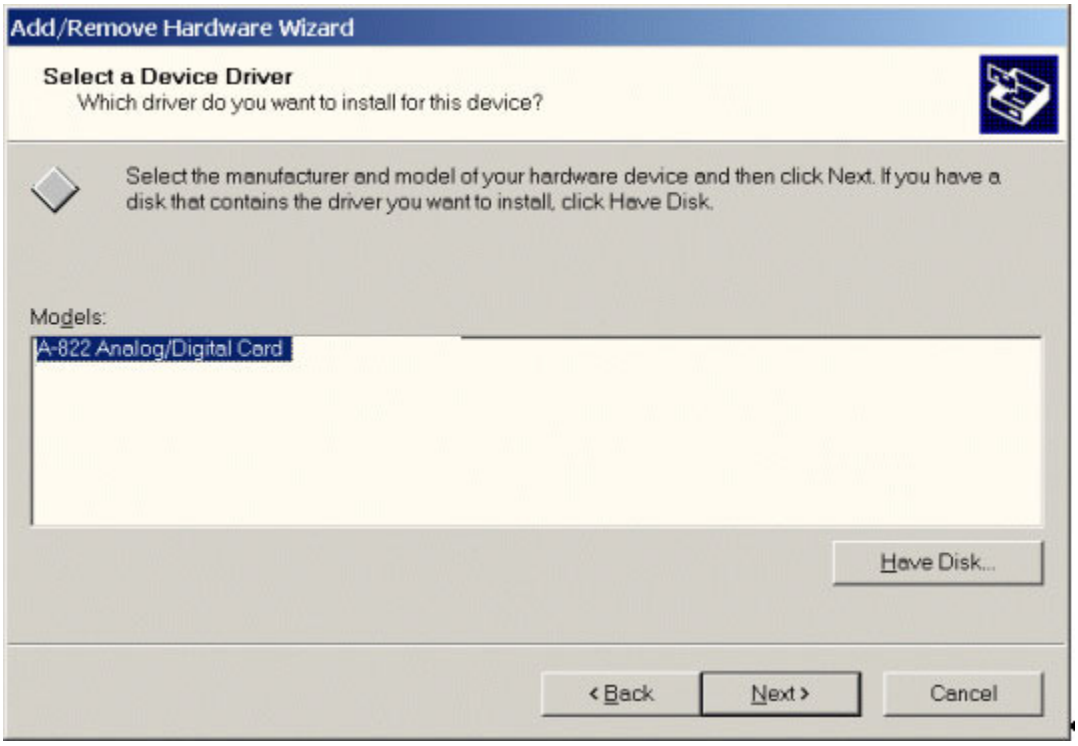
Step 4-9. Click the "Browse…" button to select the correct PnP information file (*.inf) depending on your device.

Step 4-10. Click the "OK" button.



Step 4-11. Select the correct device from the “Models:” listbox.

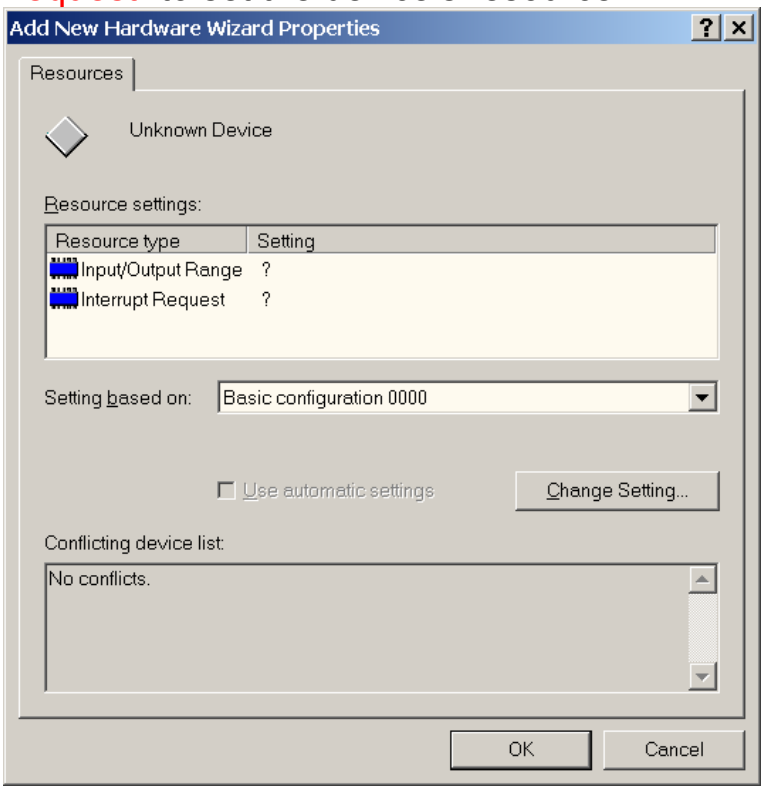
Step 4-12. Click the “Next >” button.



Step 4-13. The windows “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.”

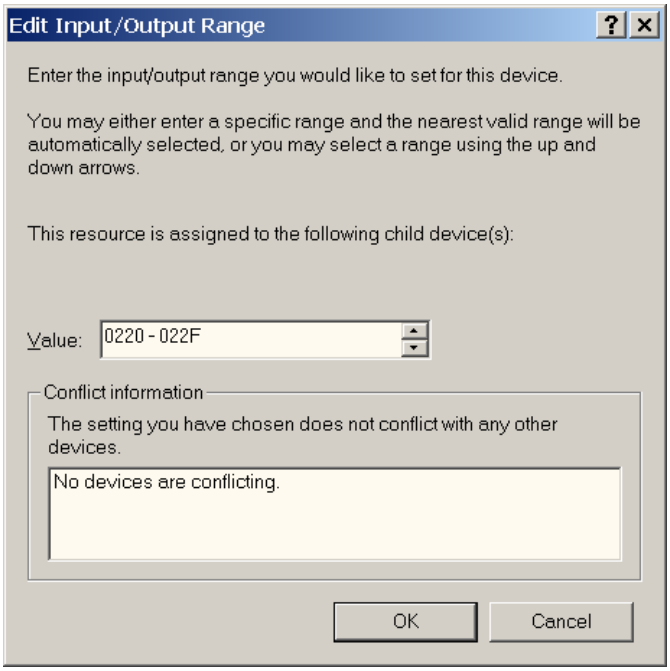
Step 4-14. Click the “OK” button to enter the device’s settings.

Step 4-15. Double-click on the "Input/Output Range" and "Interrupt Request" to set the device's resource.



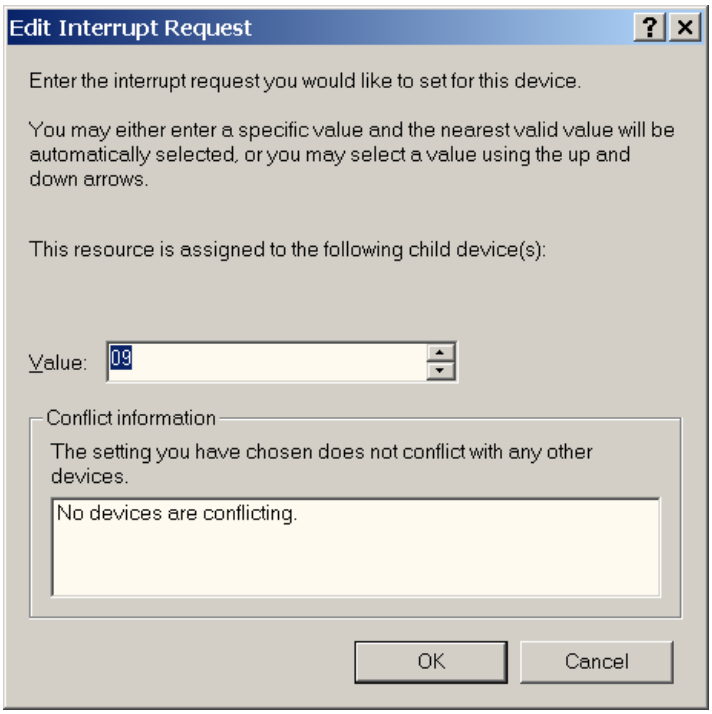
Step 4-16. Choose a "Value:" for the "Input/Output Range", which doesn't conflict with other devices.

Step 4-17. Click the "OK" button.

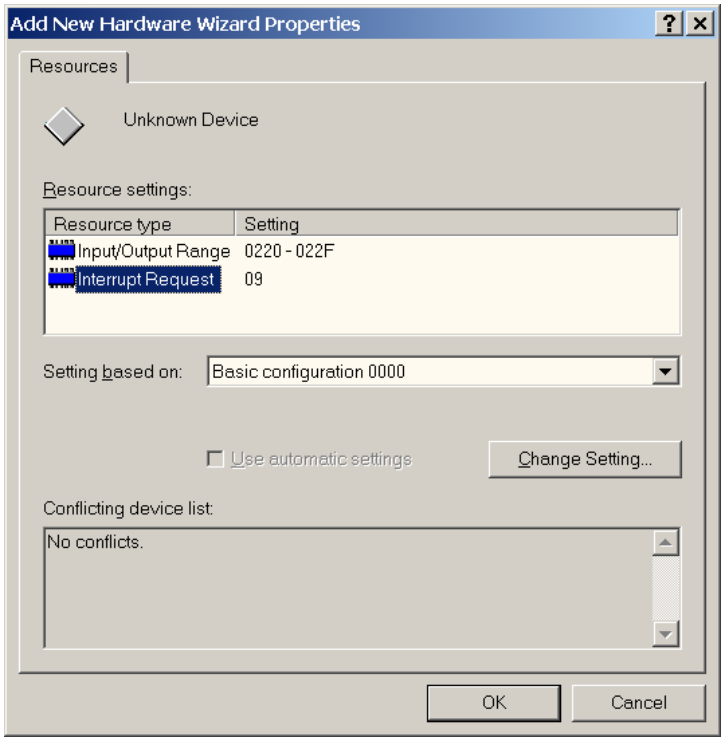


Step 4-18. Choose a "Value:" for the "Interrupt Request", which does not conflict with any other device.

Step 4-19. Click the "OK" button.

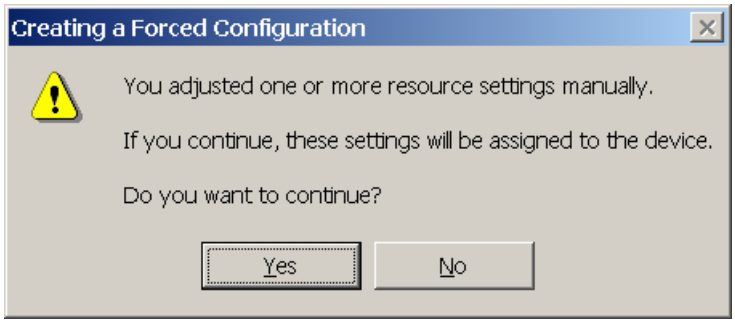


Step 4-20. Click the "OK" button.

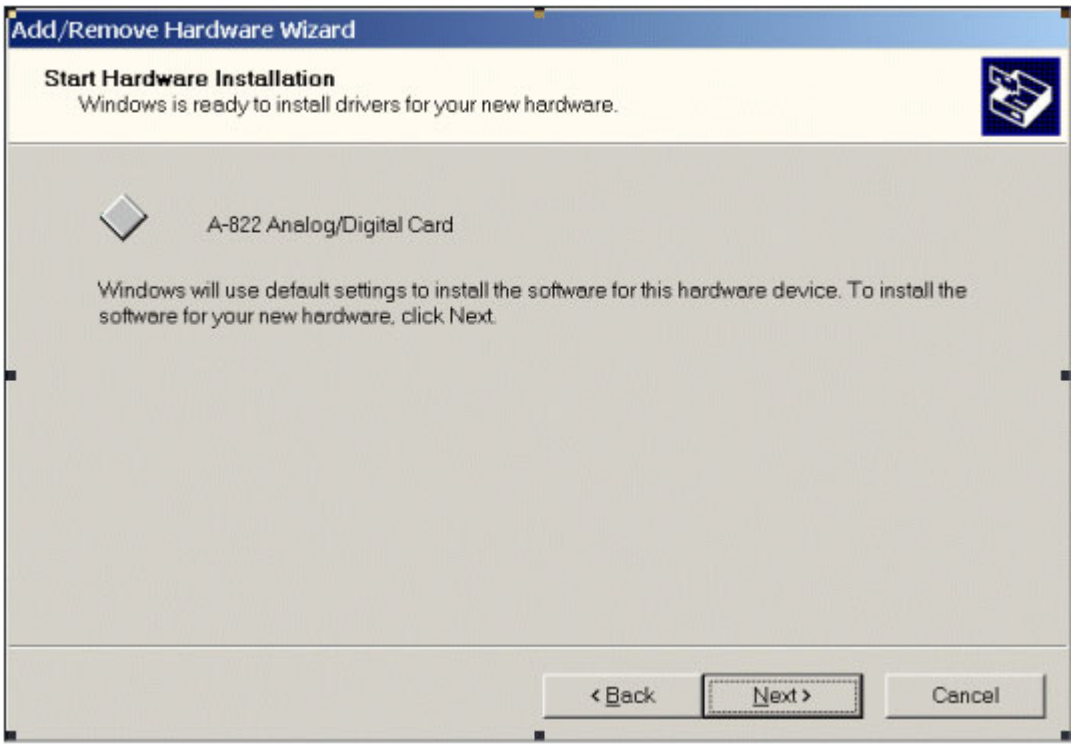


Step 4-21. The "Creating a Forced Configuration" window pops up and says : "You adjusted one or more resource settings manually. If you continue, these settings will be assigned to the device. Do you want to continue?".

Step 4-22. Click the "Yes" button.



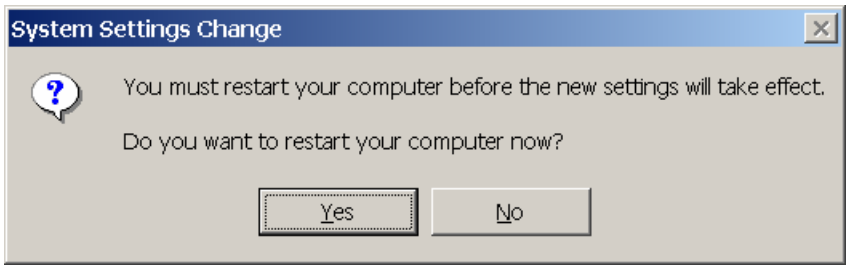
Step 4-23. Click the "Next >" button.



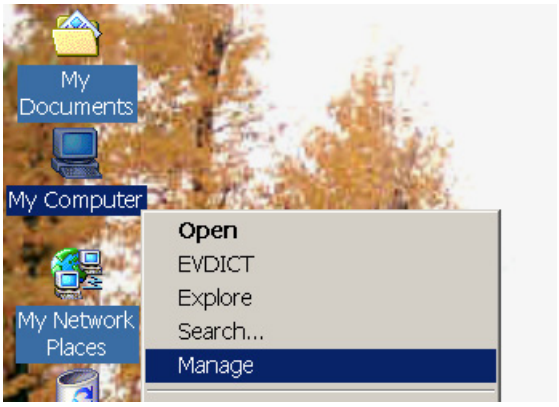
Step 4-24. Click the “Finish” button.

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

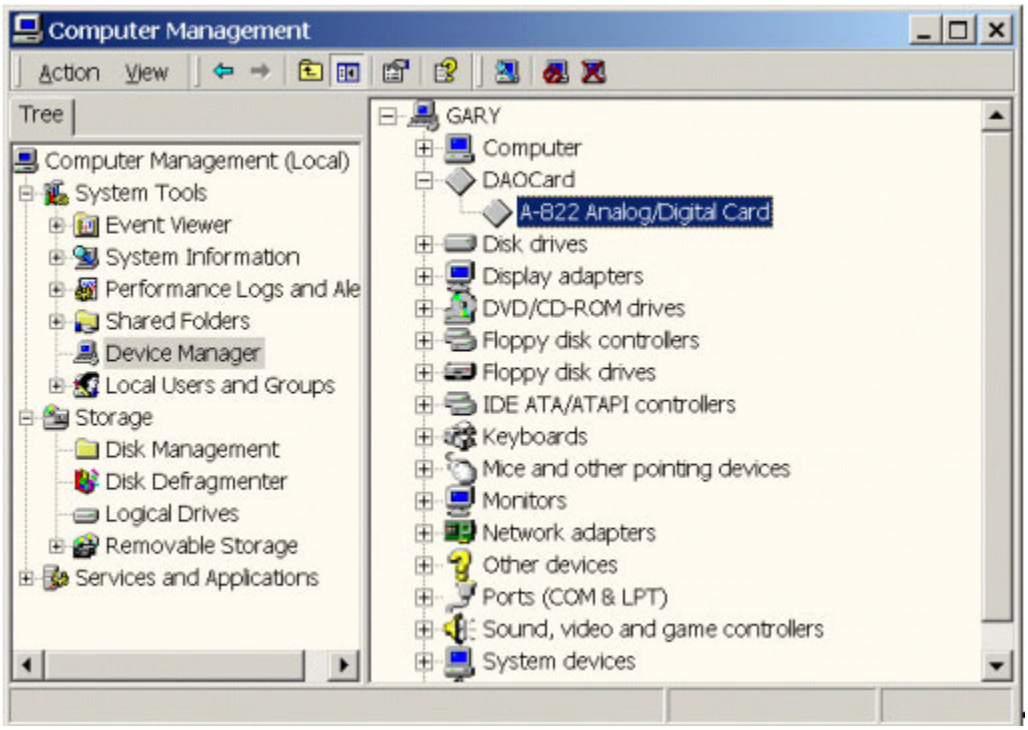
Step 4-26. Click the “Yes” button to restart your computer.



Step 4-27. Right-Click the “My Computer” icon and click the “Manage” menu item to launch “Computer Management”.



Step 4-28. Click the “Device Manager” and the user will be able to see that the device has been added.



WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by it will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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