

HomePNA & 56K Modem CNR Card

User's Guide

FCC Requirements

This equipment complies with Part 68 of the FCC Rules. On the bottom of this equipment is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. IF REQUESTED. THIS INFORMATION MUST BE GIVEN TO THE TELEPHONE COMPANY.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have these entire devices ring when your telephone number is called in most. But not all areas the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line. As determined by the REN. You should contact your local telephone company to determine the maximum REN of the area you are calling from. If your telephone equipment causes harm to the telephone network. The Telephone Company may discontinue your service temporarily. If possible, they will notify you in advance. But if the advanced notice is failed, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Your telephone company may change in its facilities, equipment, operations or procedures that could affect the proper functions of your equipment. If this occurs, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment, please contact the following address and phone number for information on obtaining service or repairs. The Telephone Company may ask you to disconnect this equipment from the network until the problem is solved or until that the equipment is not detected malfunctioning. This equipment may not be used on coin service provided by the Telephone Company. Connection to party lines is subject to state Tariffs.

Federal Communications Commission

Radio Frequency Interference Statement.

Note: This equipment has been tested and found to comply with the limitation for a class B digital device pursuant to Part 15 of the FCC Rules. These restrictions are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is suggested to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio TV technician for help.

Notices:

- (1) The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- (2) Shielded interface cables and AC power cord if any must be used in order to comply with the emission limits.

Notices to Australian users:

The modem card must only be used in a data terminal equipment (DTE) e.g. computer, that has a screw down cover (lid). As unsafe voltages (TNV) exist on the modem card, disconnect the modem card from the telephone line while the cover (lid) of the DTE (computer) is removed.

Installation of the modem card in a DTE (computer) which does not require a tool to open the cover (lid) will render the permit void.

Disconnect the telephone line before opening the cover (lid) of the DTE (computer). Do not connect the customer equipment to the telephone line while the cover (lid) of the DTE (computer) is open.

WARNING
ONLY CONNECT EQUIPMENT WITH A
TELECOMMUNICATIONS COMPLIANCE LABEL

WARNING
FOR SAFETY REASONS, ONLY CONNECT EQUIPMENT WITH
A TELECOMMUNICATIONS COMPLIANCE LABEL. THIS
INCLUDES CUSTOMER EQUIPMENT PREVIOUSLY
LABELLED PERMITTED OR CERTIFIED.

Modems connected to the Australian telecommunications network must be marked in accordance with the Labeling Notice. This modem has been specifically configured to ensure compliance with the ACA Standards. Do not adjust your modem or software outside the values indicated as below. To do so would result in your modem being operated in a non-compliant manner.

Modem Commands:

<u>Command</u>	<u>Default</u>	<u>Permissible Range</u>
ATA	-	Do not use
ATB	B0	Do not set to B1
AT&G	&G0	&G2
AT&P	&P0	&P1
ATSn	see table below	
<u>S register</u>	<u>Default</u>	<u>Permissible Range</u>
s6	2	2 to 6

Call Attempts/Retries:

Applications software shall be configured so that no more than 3 attempts are made to establish a connection to a given number (Note: if the modem can detect service tones, up to 10 attempts can be made). If the call sequence is unsuccessful, there shall be a delay of at least 30 minutes before attempting to call the number again.

Failure to set the modem and any application software used with the modem, to the values shown as above will result in the modem being operated in a non-compliant manner.

Consequently, this would be in violation of the Labeling Notice for this equipment, and the Telecommunications ACT 1997 prescribes penalties for the connection of non-compliant equipment.

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Chapter 1 Introduction

1.1 Introduction

The Communication and Networking Riser (CNR) Specification defines a hardware interface that supports the audio, modem, and local area network (LAN) interfaces of core logic chipsets. The main objective of this specification is to reduce the baseline implementation cost of features that are widely used in the ihConnected PClo, while also addressing specific functional limitations of todayTMs audio, modem, and LAN subsystems.

PC usersTM demand for feature-rich PCs, combined with the industryTMs current trend towards lower cost, mandates higher levels of integration at all levels of the PC platform. Motherboard integration of communication technologies has been problematic to date, for a variety of reasons, including FCC and international telecom certification processes, motherboard space, and other manufacturer specific requirements.

Motherboard integration of the audio, modem, and LAN subsystems is also problematic, due to the potential for increased noise, which in-turn degrades the performance of each system. The CNR specifically addresses these problems by physically separating these noise-sensitive systems from the noisy environment of the motherboard.

1.2 What's in the Package

CNR Card

CD (Comprises Application Software, Drivers and User's Guide)

Telephone Cord

Quick Guide for Installing Drivers

1.3 Features

ITU 56K V.90 Standard

AC'97 2.1 Compliant

Windows 95/98/ME/NT4.0/2000 compatible

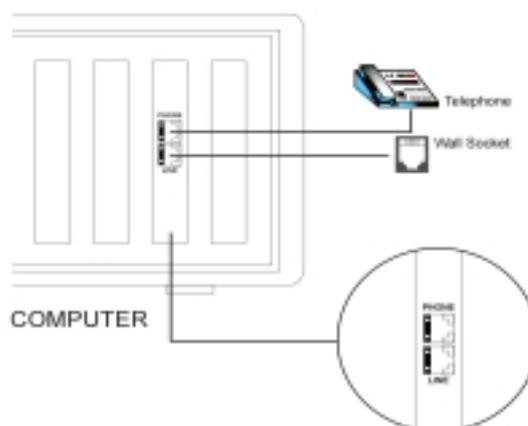
Software upgradeable

Chapter 2 Hardware Installation

- Shut down your computer and turn it off.
- Remove the upper case of your computer. Before removing it, please read the safety procedures described in your computer's reference manual carefully.
- Insert the CNR card in a CNR slot and hold the card at the top edge, make sure to press it firmly.
- Tighten the retaining screws and close the case.

Connecting the Modem to the telephone line:

- Plug one end of telephone cord supplied into the socket on the back of the modem marked "LINE".
- Insert the other end of the cord into the telephone wall socket.
- If you want to use the telephone on the same line as the modem, please plug the cable of telephone into the socket on the back of the modem marked "PHONE".



Chapter 3 Home Phonenumber Networking Alliance (HomePNA)

3.1 Specifications

- Integrates a HomePNA PHY for 1Mb/s Ethernet like home networking on telephone lines.
- Provides automatic support for dual HomePNA data transfer rates and dual transmission power levels.
- Supports auto detection between HomePNA and MII/LAN ports.
- Generates an interrupt upon HomePNA PHY interrupt.
- Provides a software interface to the HomePNA PHY internal registers.

Power Management and Power Saving Features

- Fully compliant with the Network Device Class Power Management Specification Revision 1.0, and the Communication, Device Class Power management Specification, under the OnNow Architecture for Microsoft's PC97 Hardware Design Guide and PC98 Hardware Design Guide.
- Supports all wake-up events defined in the Network Device Class Power Management Specification Revision 1.0
- Fully compliant with the ACPI Specification Revision 1.0
- Fully compliant with the PCI Bus Power Management Interface Specification, Revision 1.0.

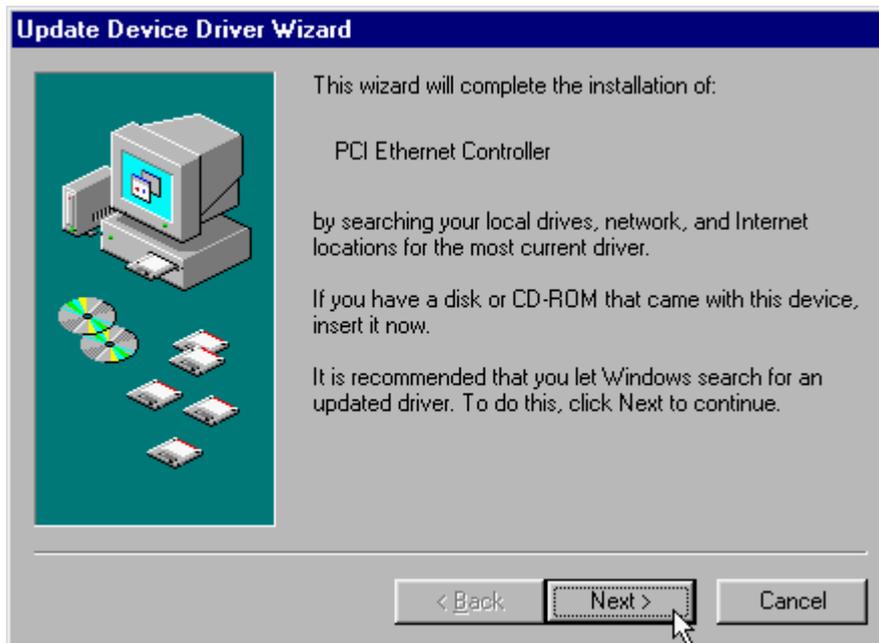
Network Side Features

- Supports network ports: HomePNA 1.0 (1Mbps)

3.2 Software Installation

Windows 95B (OSR2)

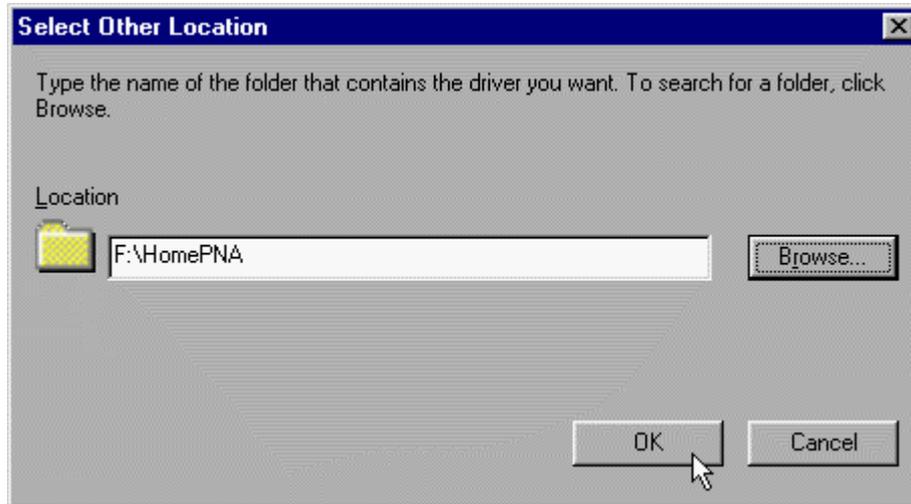
1. When you see the message of **PCI Ethernet Controller** appearing, insert the driver CD came with the card. Then click **Next** to search the driver.



2. Click **Other Locations....** to select for the driver.



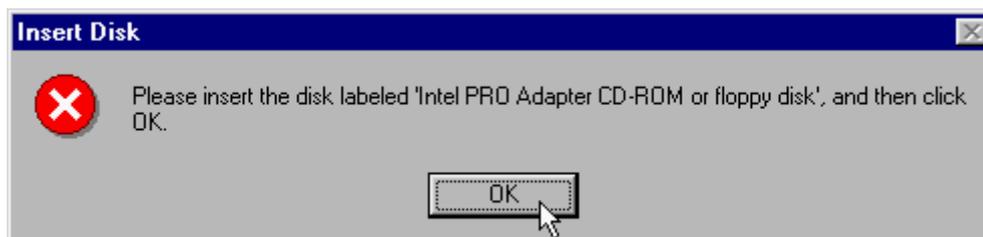
3. Please type in **F:\HomePNA** (F is the letter of the CD-ROM drive) or use **Browse...** to search, then click **OK** to confirm the location.



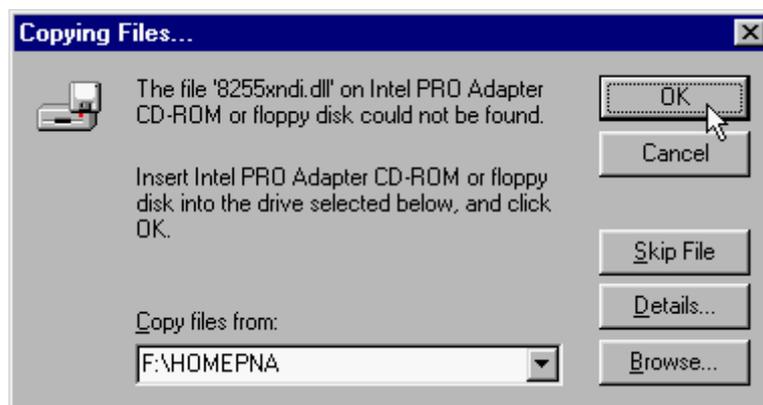
4. Click **Finish** to install the driver selected.



5. Click **OK** to continue.



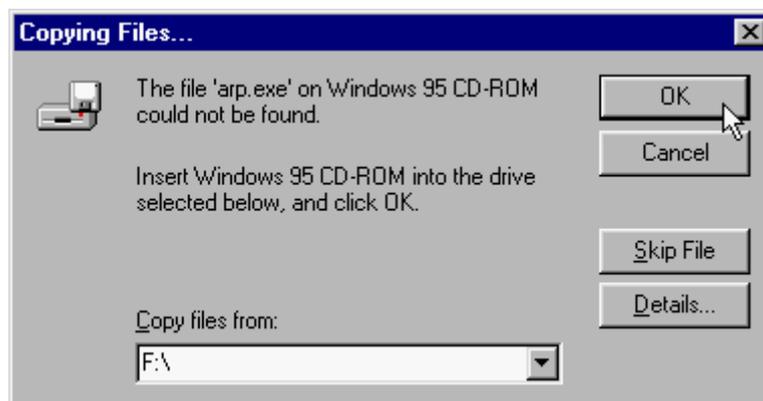
- Please type in **F:\HomePNA** or use **Browse** to search, then click **OK** to copy files.



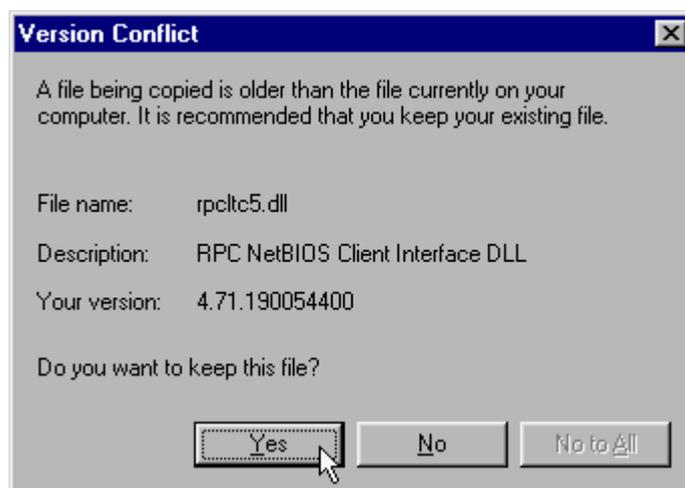
- Please insert the Windows 95 CD to CD-ROM drive and click **OK**.



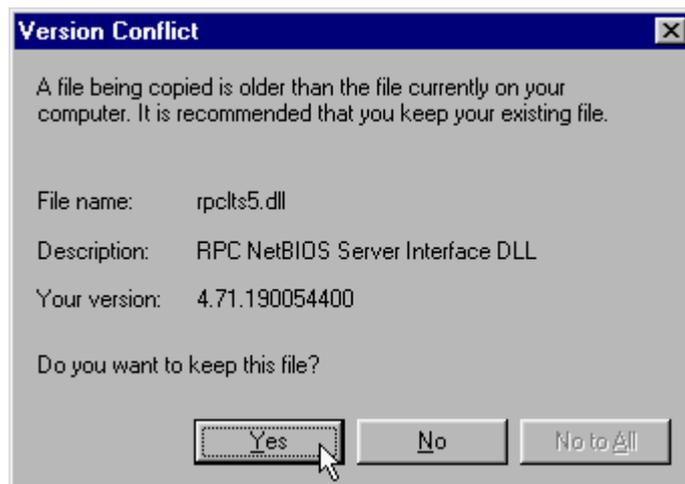
- Please type in **F:** to search Windows origin files, then click **OK** to copy files.



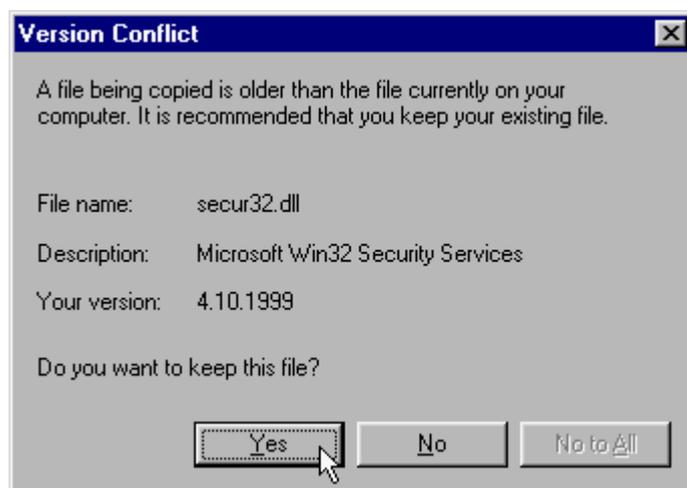
9. Click **Yes**.



10. Click **Yes**.

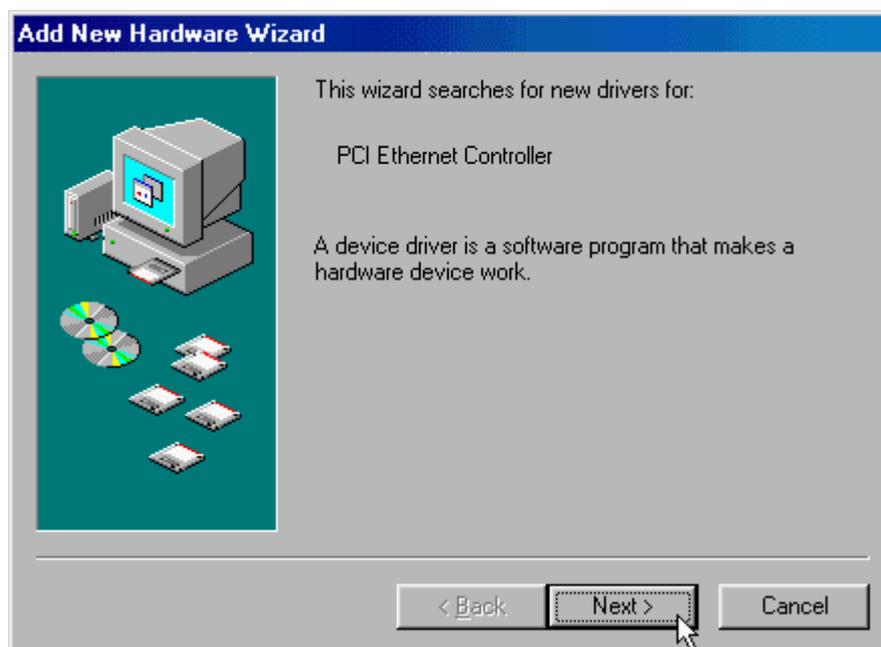


11. Click **Yes** to end the install procedure.



Windows 98

1. When you see the message of **PCI Ethernet Controller** appearing, insert the driver CD came with the card. Then click **Next** to search the driver.



2. Select the **Search for the best driver for your device. [Recommended]** and click **Next** to continue.



3. Select **Specify a location:** and type in **F:\HomePNA** (F is the letter of the CD-ROM drive) or use **Browse...** to search, then click **Next** to continue.



4. Windows has found the driver for the **82562EH based Phoneline Desktop Adapter**, click **Next** to start the installation.



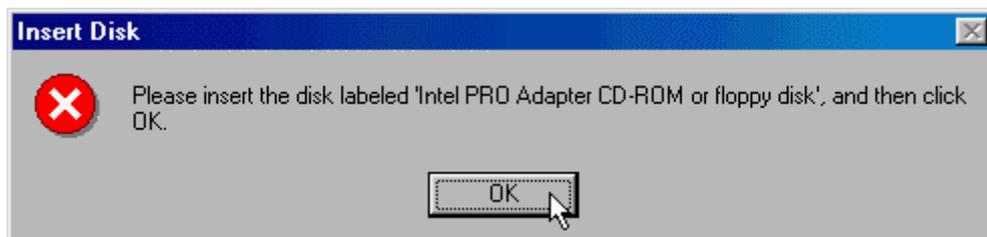
5. Please insert the Windows 98SE (or Windows 98) CD to the CD-ROM drive and click **OK**.



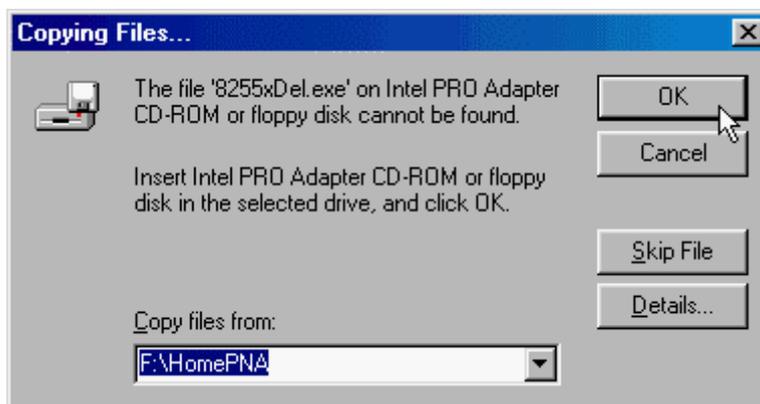
6. Please type in **F:** to search the Windows origin files, then click **OK** to copy files.



7. Please insert the driver CD to CD-ROM drive and click **OK**.



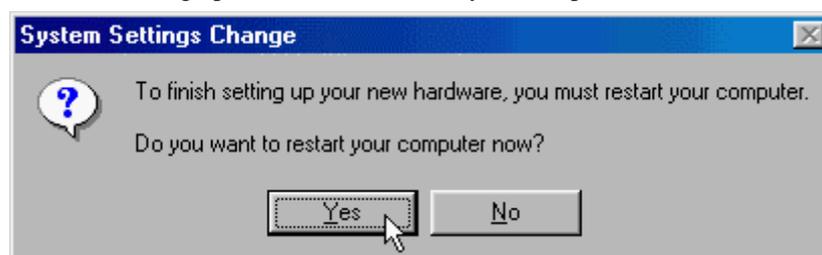
8. Please type in **F:\HomePNA** to search, then click **OK** to copy files.



9. The installation procedure has done. Click **Finish**.



10. Click **Yes** to finish setting up the device and restart your computer.



Windows ME

1. When you see the message of **PCI Ethernet Controller** appearing, insert the driver CD came with the card. Select the **Automatic search for a better driver [Recommended]** then clicks **Next** to search the driver.



2. Click **Finish** to continue.



3. Click **Yes** to finish setting up the device and restart your computer.



Windows 2000

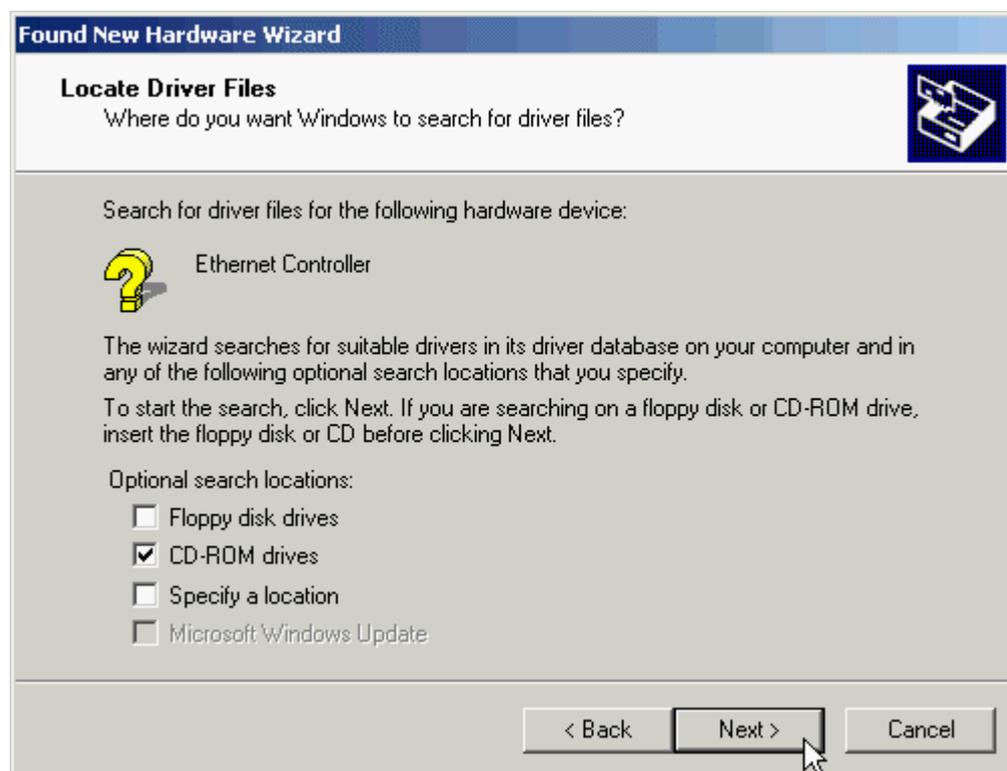
1. Windows will detect the modem automatic; please insert the driver CD supplied and clicks **Next**.



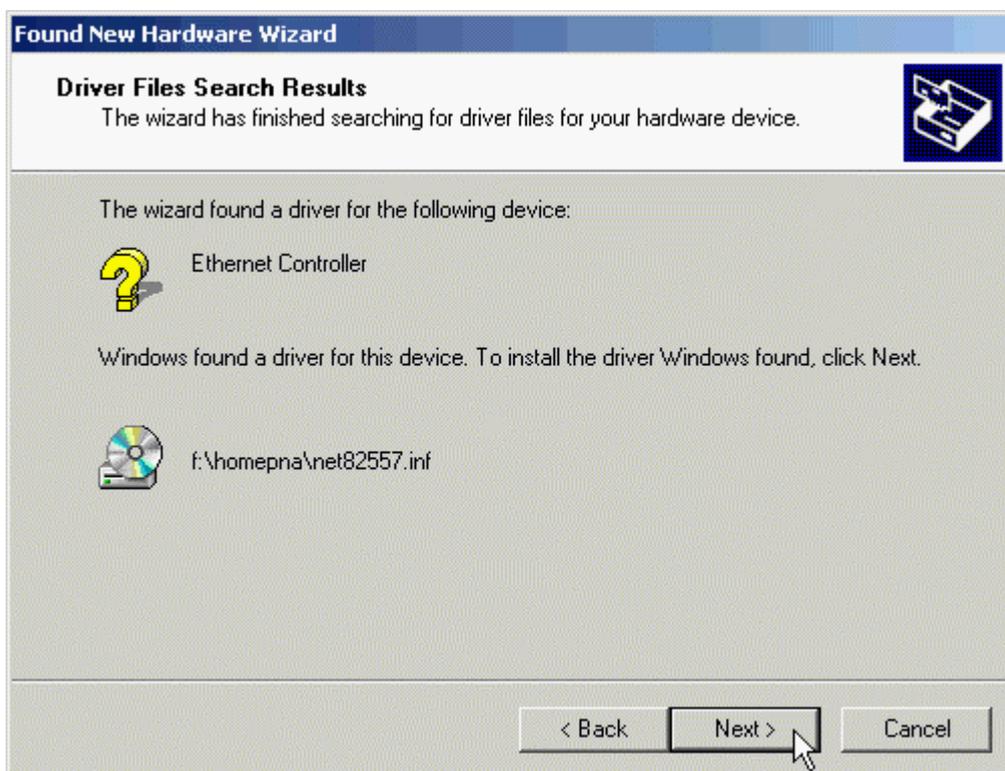
2. Select **Search for a suitable driver for my device [recommended]**, then click **Next**.



3. Select **CD-ROM drives**, then click **Next**.



- Click **Next** to start search the driver.



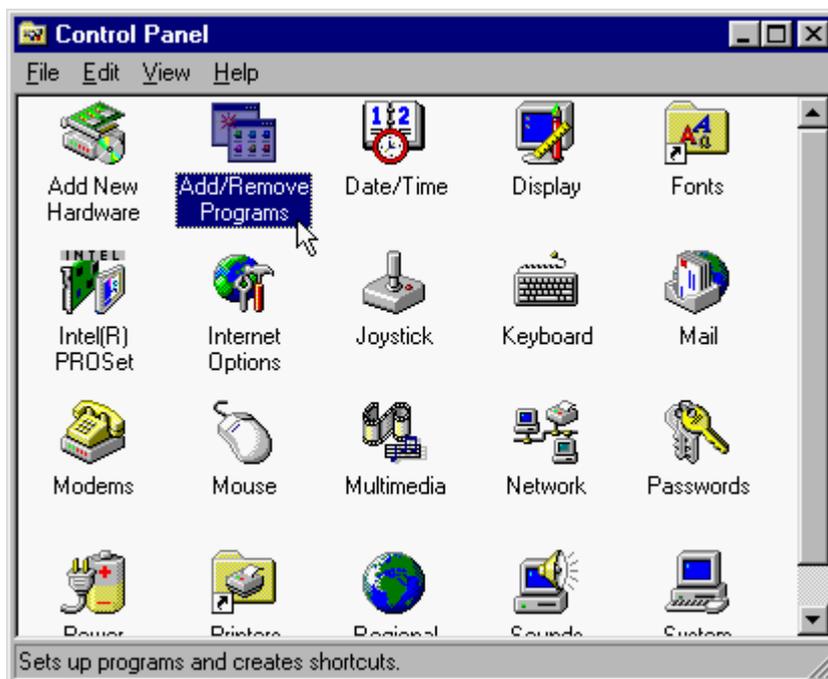
- Windows has found a driver for this device, and then click **Finish** to end this procedure.



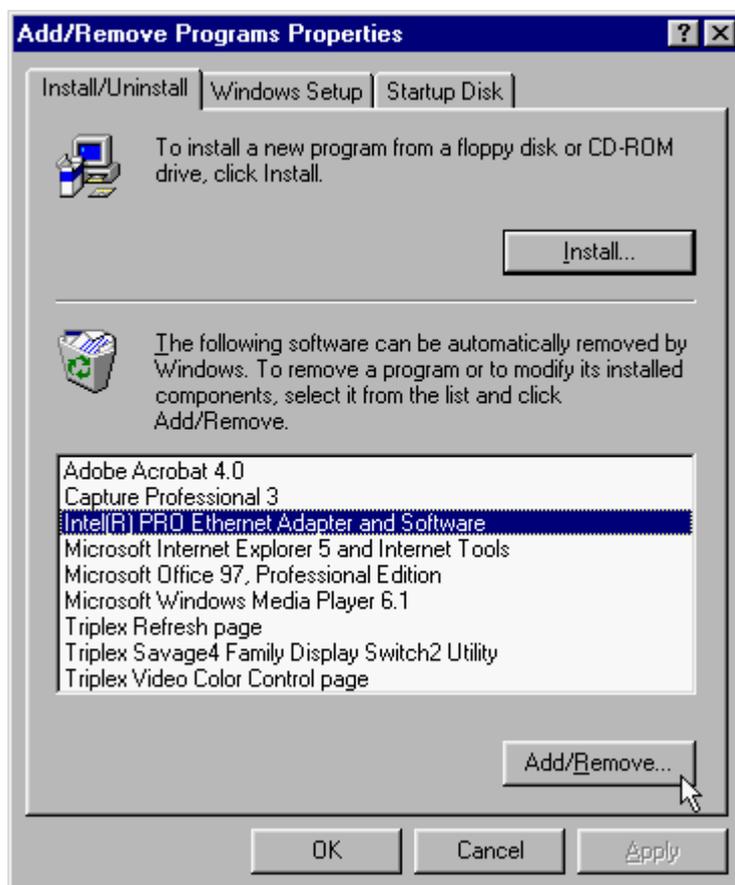
3.3 Uninstalling Procedure

Windows 95B (OSR2)

1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Add/Remove Programs** icon.



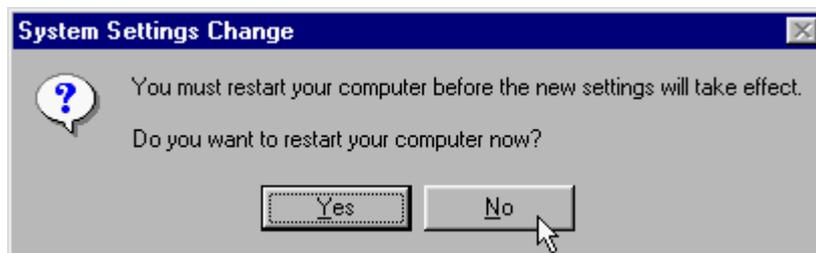
2. Select **Intel[R] PRO Ethernet Adapter and Software** from the list and click **Add/Remove** to remove the modem drivers.



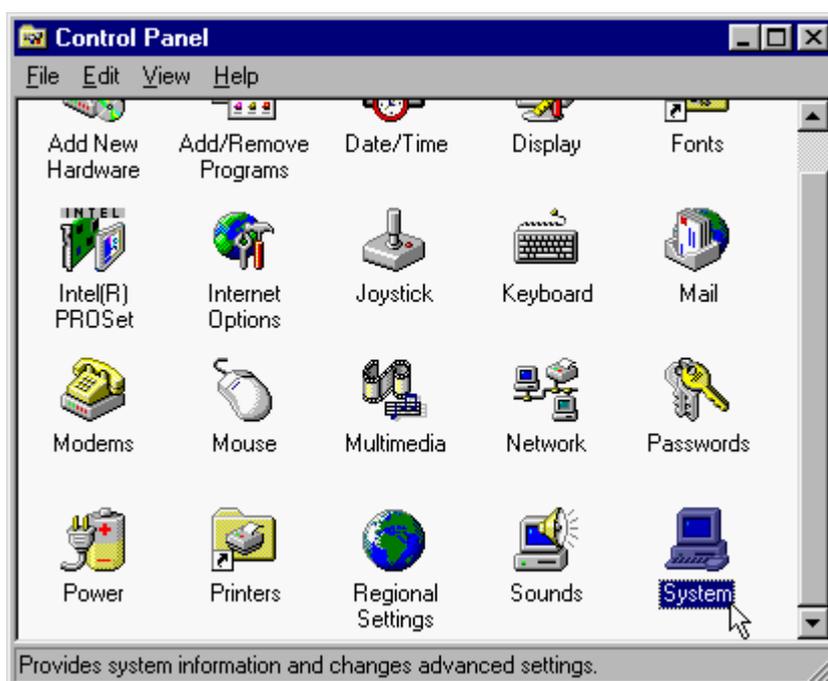
3. Click **OK** to confirm the deletion.



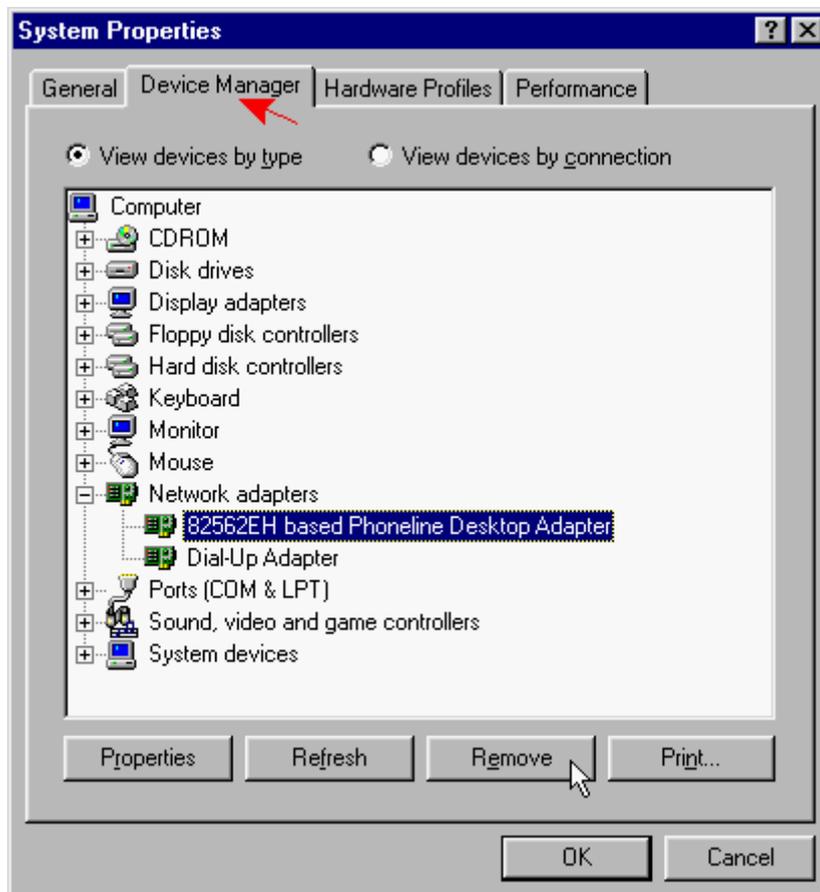
- 4. Click **NO** to uninstall other component.



- 5. Please double-click the **System** icon on **Control Panel**.



6. Clicks **Device Manager** tab and select **82562EH based Phonline Desktop Adapter**, then click **Remove** icon.



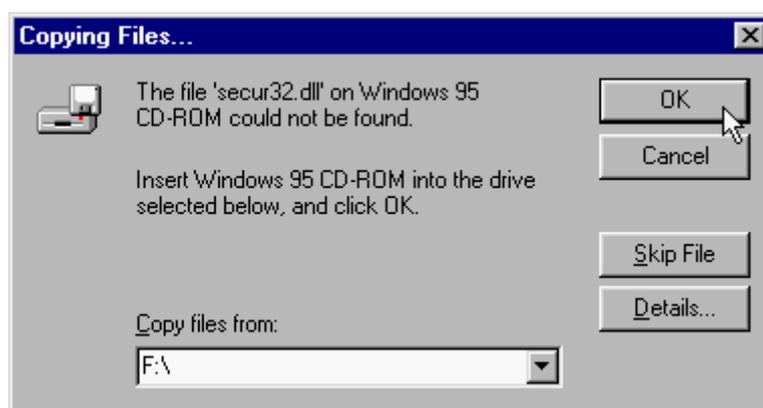
7. Click **OK**.



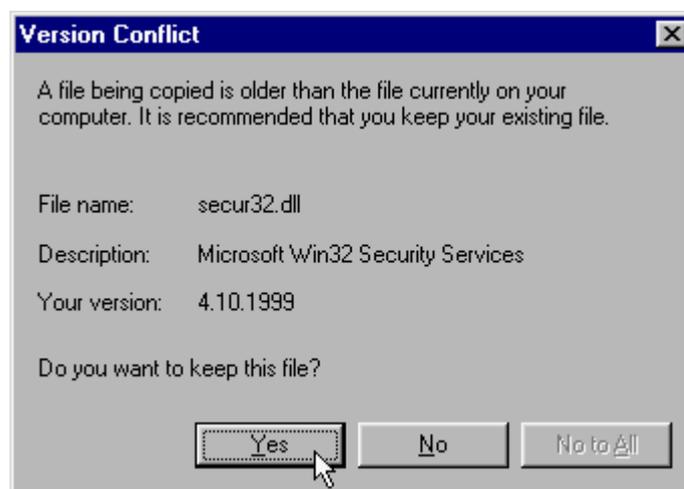
8. Please insert the Windows 95 CD to CD-ROM drive and click **OK**.



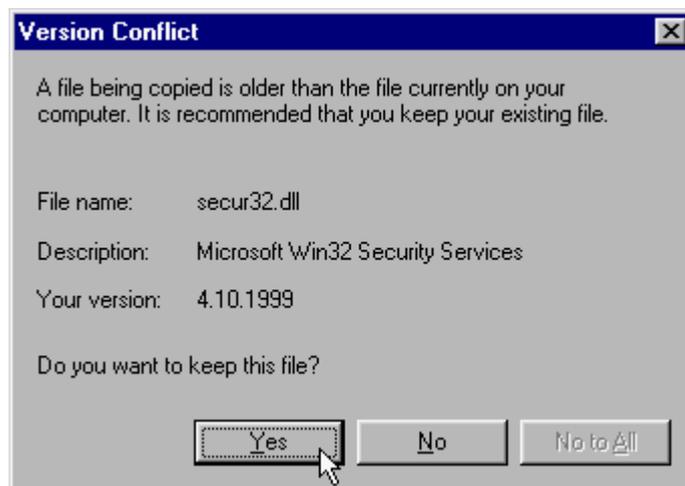
9. Please type in **F:** to search Windows origin files, then click **OK** to copy files.



10. Click **Yes**.



11. Click **Yes** again.



12. Click **Yes** to end this procedure.

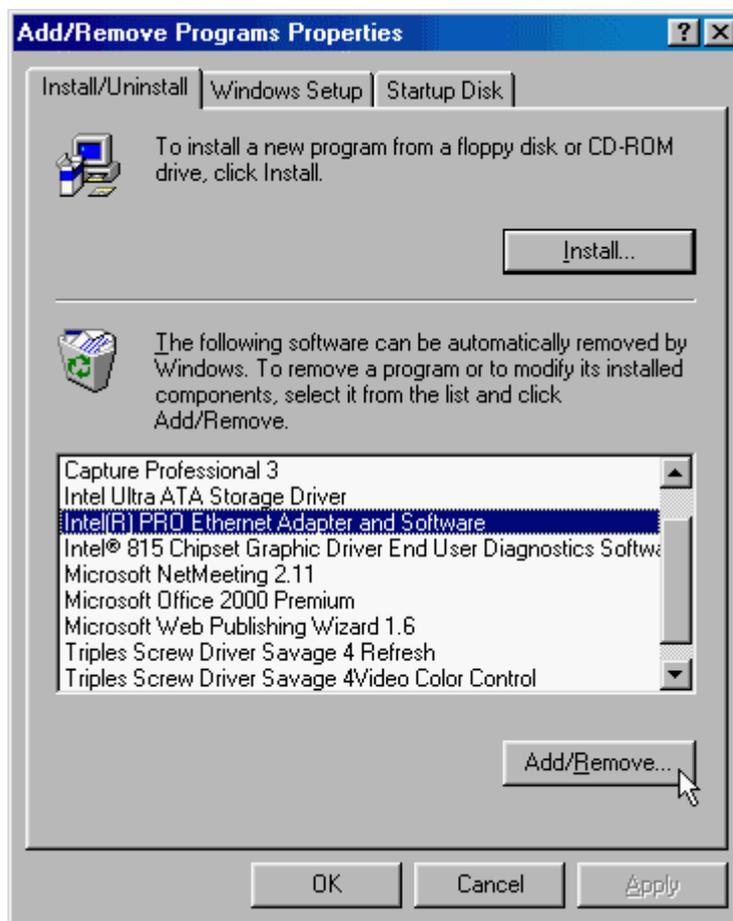


Windows 98/ME

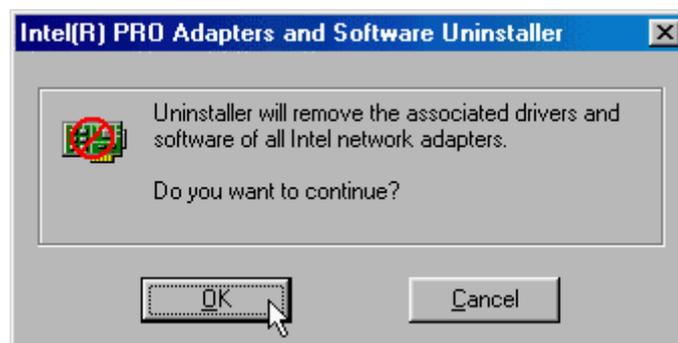
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Add/Remove Programs** icon.



2. Select **Intel[R] PRO Ethernet Adapter and Software** from the list and click **Add/Remove** to remove the modem drivers.



3. Click **OK** to continue.



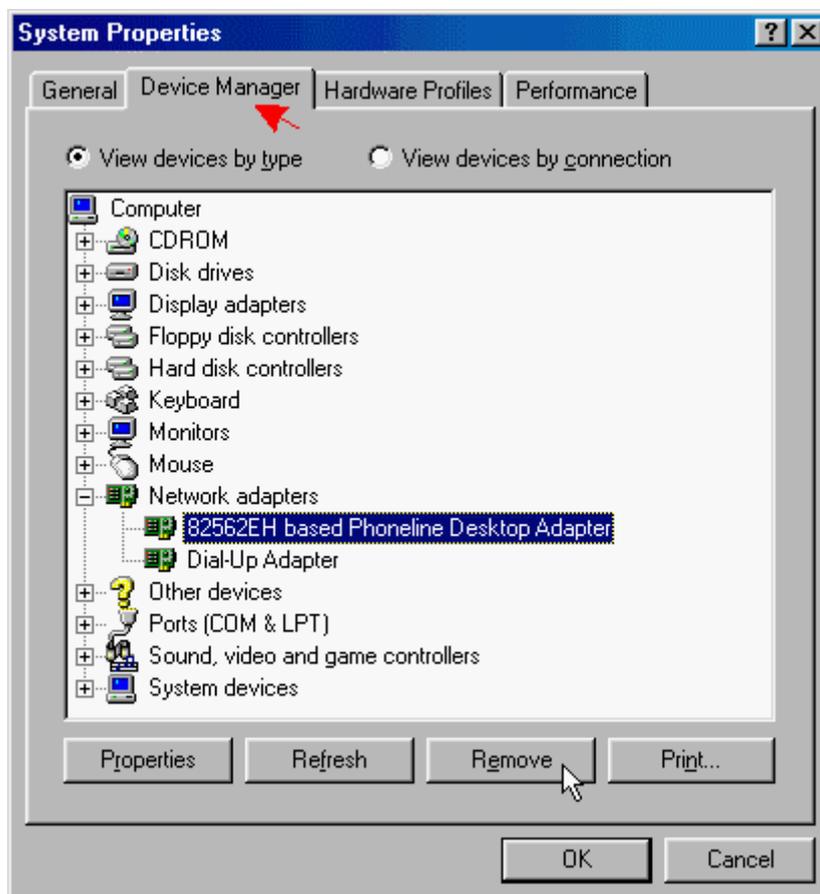
- 4. Click **NO** to uninstall other component.



- 5. Please double-click the **System** icon on **Control Panel**.



6. Clicks **Device Manager** tab and select **82562EH based Phonline Desktop Adapter**, then click **Remove** icon.



7. Click **OK** to confirm device removal.



8. Click **Yes** to end this procedure.

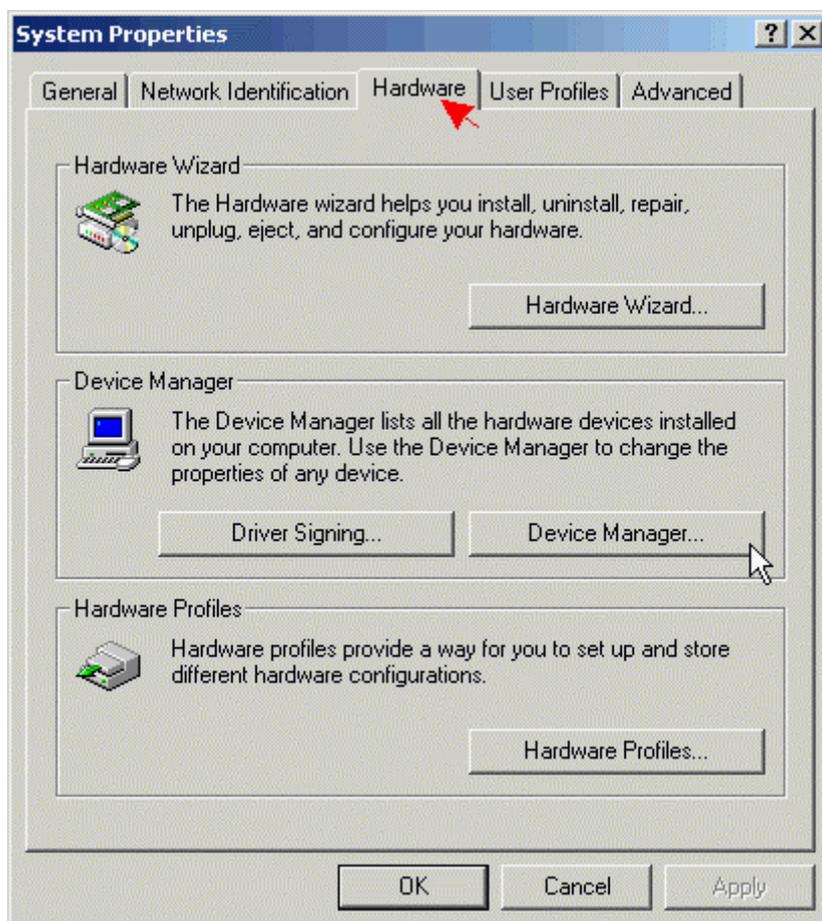


Windows 2000

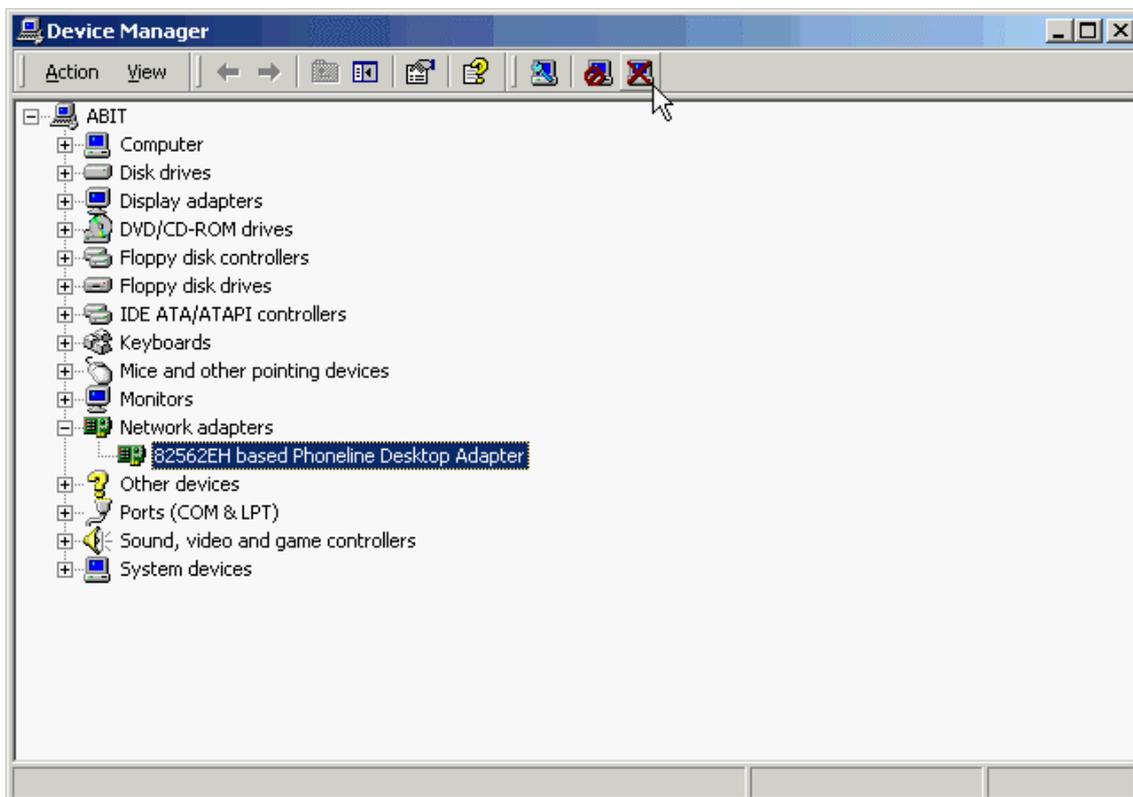
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **System** icon.



2. Click **Hardware** tab, then click **Device Manager** icon.



3. Select **82562EH based Phonline Desktop Adapter**, then click **uninstall** icon on the tab.



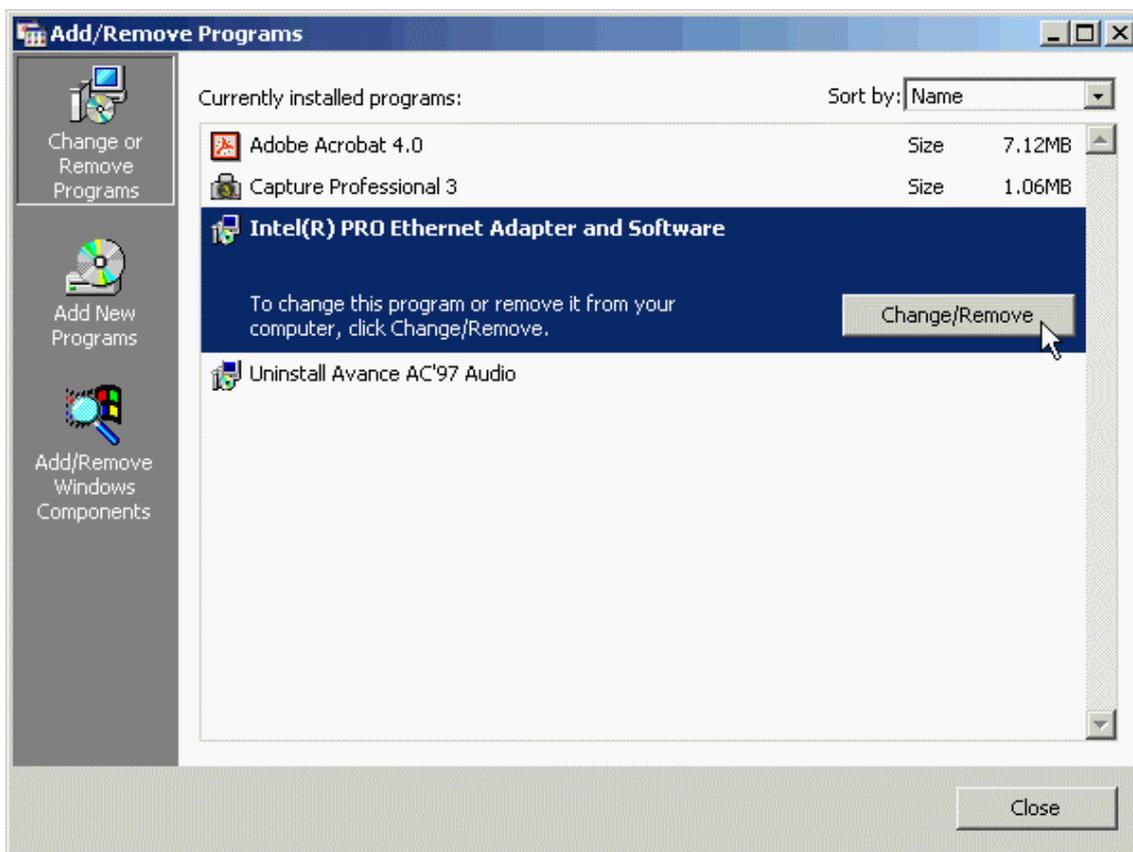
4. Click **OK**.



5. Please double-click **Add/Remove Programs** icon on the **Control Panel**.



6. Select **Intel(R) PRO Ethernet Adapter and Software**, then click **Change/Remove** icon.



7. Click **OK** to end this procedure.



Chapter 4 56K Modem with SmartLink chipset

4.1 Specifications

Chip Set	Silicon Lab.DAA & SmartLink Driver
Line Connection	PSTN, 2 wires
Modem Data Transmission	BELL 103 and BELL 212A ITU-T V.21 (300 bps) ITU-T V.22 (1200 bps) ITU-T V.23 (1200 bps) ITU-T V.22 bis (2400 bps) ITU-T V.32 (9600/4800 bps) ITU-T V.32 bis (14400/1200/7200 bps) ITU-T V.34 bis ITU-T V.90 and K56flex
Modem Fax Transmission	Send/Receive G3 Fax ITU-T V.27ter (4800 bps) ITU-T V.29 (9600 bps) ITU-T V.17 (14400 bps)
Modem Error Correction	MNP 2-4/V.42 LAPM
Modem Data Compression	MNP 5/V.42 bis
Modem Command Set	Enhanced "AT" Command, Fax Class 1
Modem Communication Model	Asynchronous
Modem DTE Speed (MAX)	Virtual 462800bps
Modem Transmit Level	-11 ± 1dBm
Modem Flow Control	XON/XOFF RTS/CTS (Default)
Modem Dialing Mode	Touch Tone Rotary Pulse (country dependent)
PTT and Safety	FCC, CE, CTR21
Modem Call Progress	Country Dependent
Modem Guard Tone	Country Dependent
Modem Blacklisting	Country Dependent
Modem Auto Dial & Auto Answer	YES
Modem Line Quality Monitoring	Receive Level Monitoring
Modem Programmable Volume Control	YES
Modem Noted Features	Speed Buffering Auto Format/Speed sensing Auto Retiring
OS	WIN 95/98/ME/NT4.0/2000
Modem Data Interface	AC'97 compliant primary / secondary selection
Telephone Interface	PSTN Line through RJ-11
Power Supply Board	Max. 1W
System Requirement	PII-233 + 32M RAM

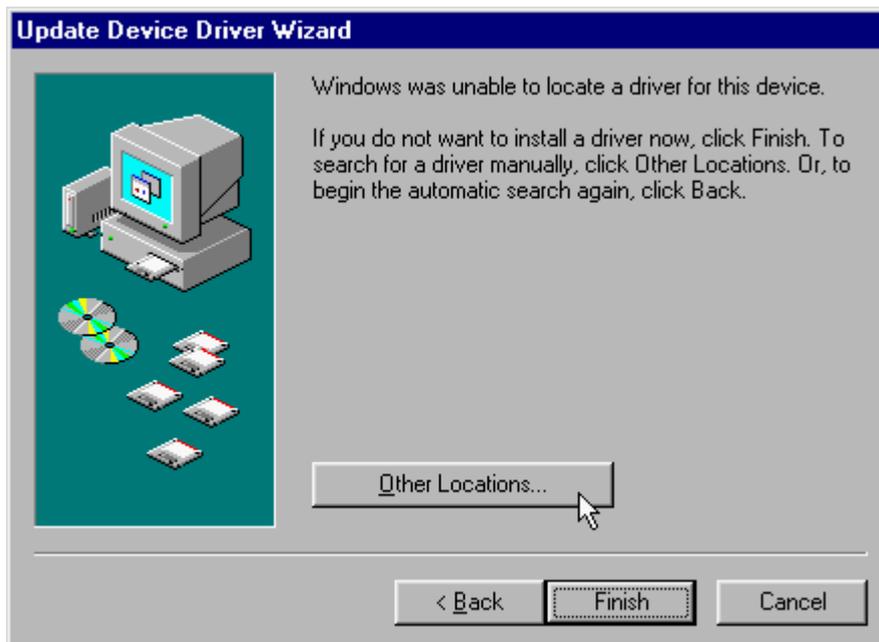
4.2 Software Installation

Windows 95B (OSR2)

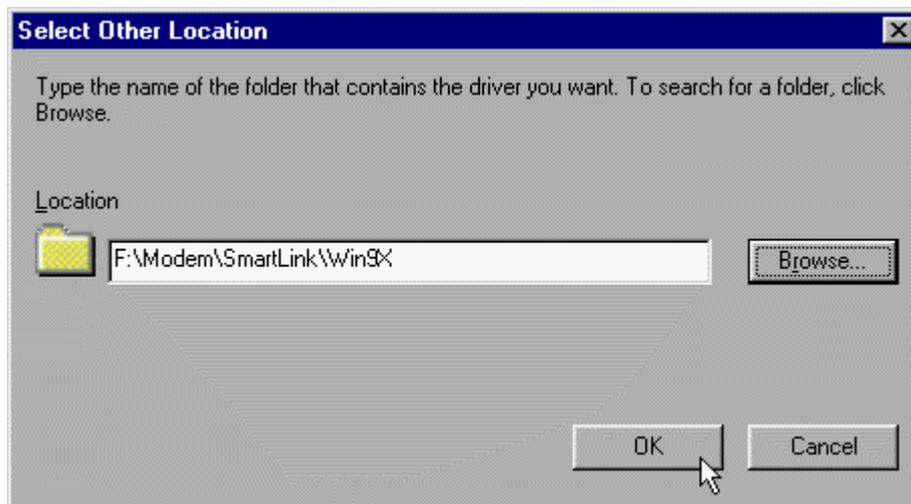
1. When you see the message of **PCI Card** (or **PCI Communication Device** that depends on different motherboards) appearing, insert the driver CD came with the modem card. Then click **Next** to search the driver.



2. Click **Other Locations....** to select for a modem driver.



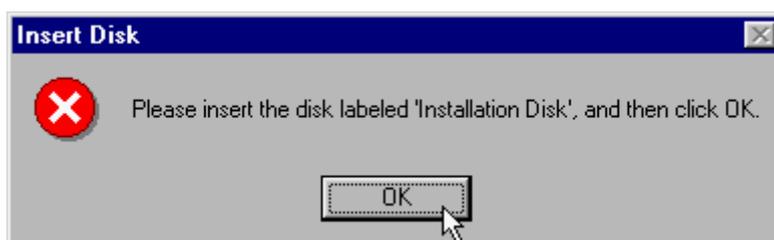
3. Please type in **F:\Modem\SmartLink\Win9X** (F is the letter of the CD-ROM drive) or use **Browse...** to search, then click **OK** to confirm the location.



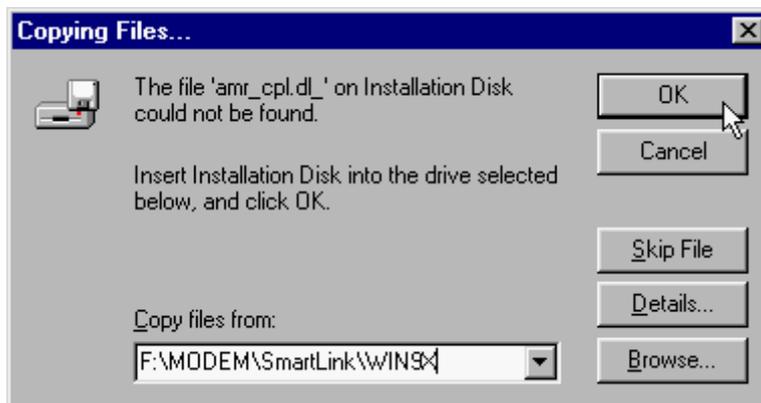
4. Click **Finish** to install the driver selected.



5. Click **OK** to continue.



6. Please type in **F:\Modem\SmartLink\Win9X** or use **Browse** to search, then click **OK** to copy files.



Windows 98

1. When you see the message of **PCI Card** (or **PCI Communication Device** that depends on different motherboards) appearing, insert the driver CD came with the modem card. Then click **Next** to search the driver.



2. Select the **Search for the best driver for your device. [Recommended]** and click **Next** to continue.



3. Select **Specify a location:** and type in **F:\Modem\SmartLink\Win9X** (F is the letter of the CD-ROM drive) or use **Browse...** to search, then click **Next** to continue.



4. Windows has found the driver for the **HAMR 5600 Voice Modem**, click **Next** to start the installation.



5. This installation has been done; click **Finish** to continue.



Windows ME

1. When you see the message of **PCI Card** (or **PCI Communication Device** that depends on different motherboards) appearing, insert the driver CD came with the modem card. Select **Specify the location of the driver [Advanced]**, then click **Next** to search the driver.



2. Select the **Search for the best driver for your device. [Recommended]**, **Specify a location** and type in **F:\Modem\SmartLink\WinME** or use **Browse** to search, then click **Next** to continue.



3. Windows has find the driver, then click **Next** to continue.

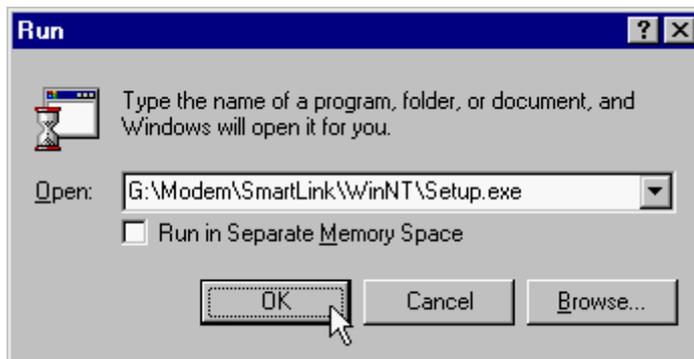


4. This installation has been done; click **Finish** to continue.

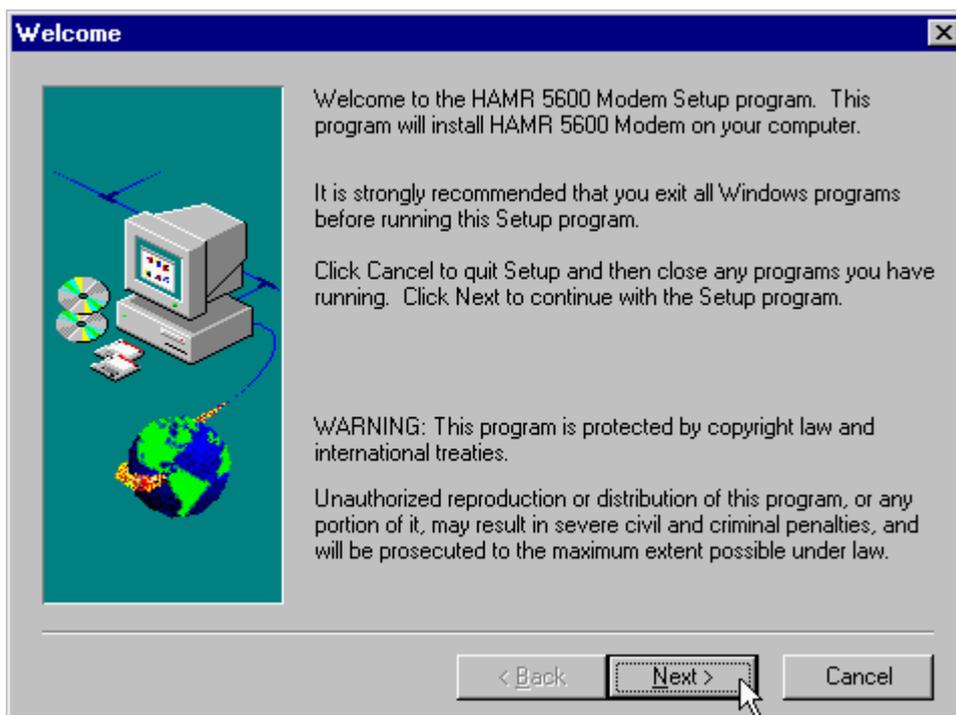


Windows NT 4.0

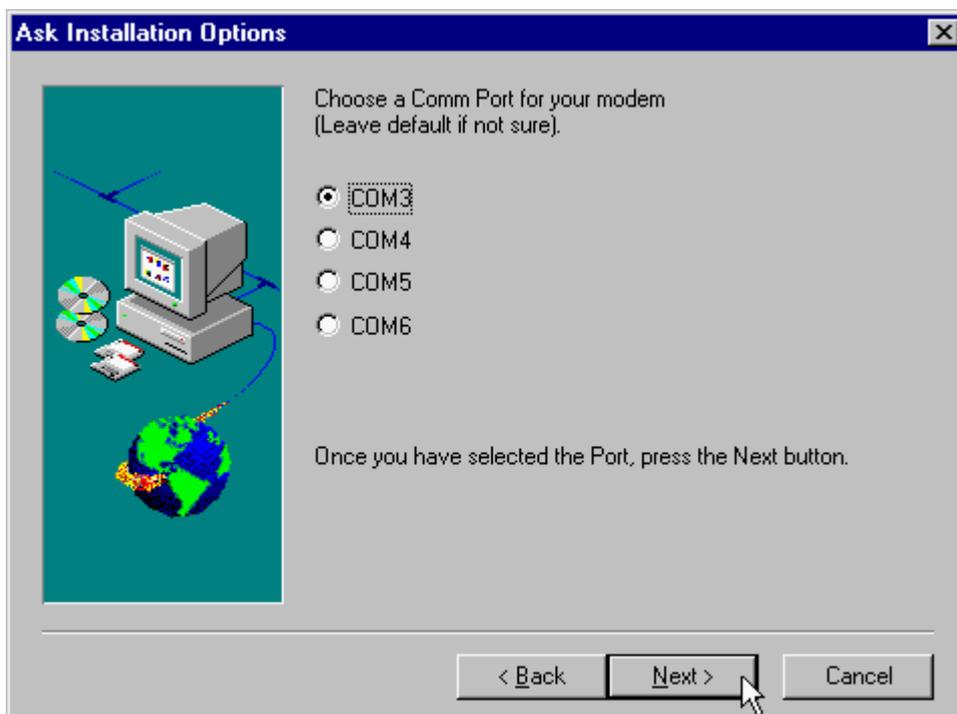
1. Please insert the driver CD supplied and go to **Start\Run**. Type in **G:\Modem\SmartLink\WinNT\Setup.exe** (G is the letter of the CD-ROM drive), then click **OK** to open it.



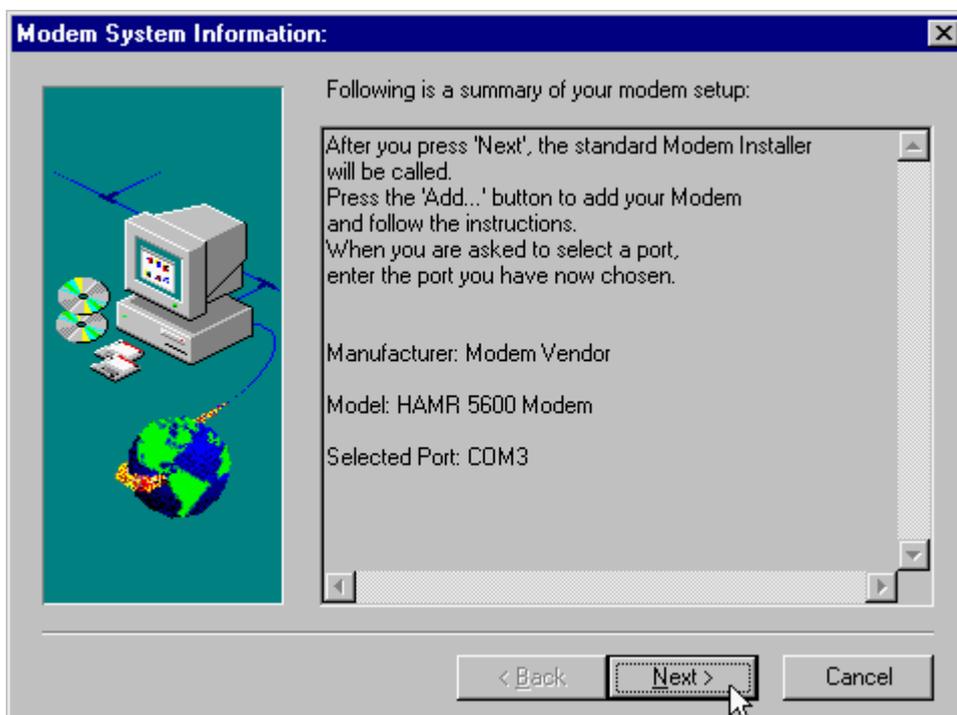
2. Click **Next** to begin with the Setup program.



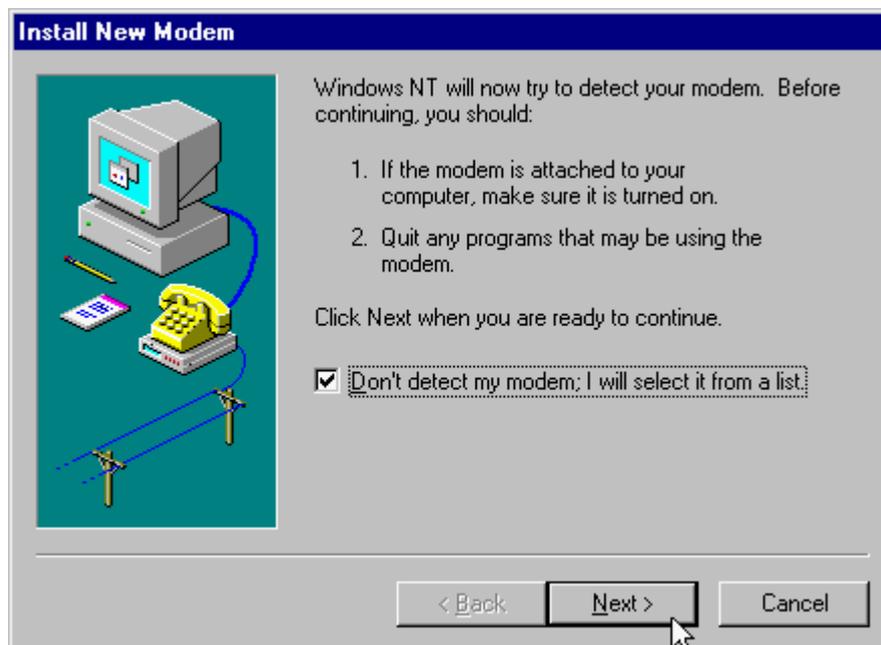
3. Select a **COM Port** for your modem and click **Next** to continue.



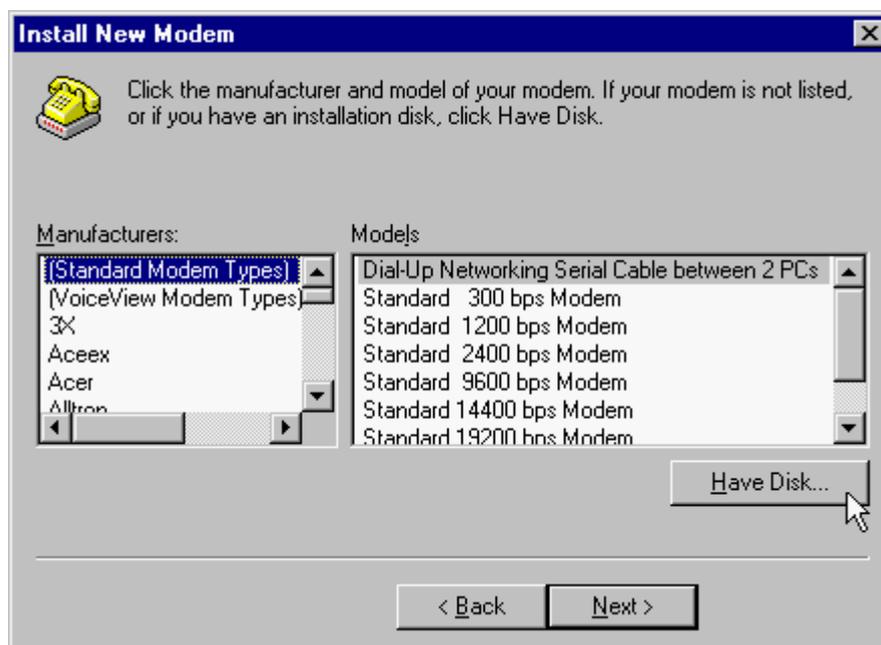
4. Click **Next** to continue.



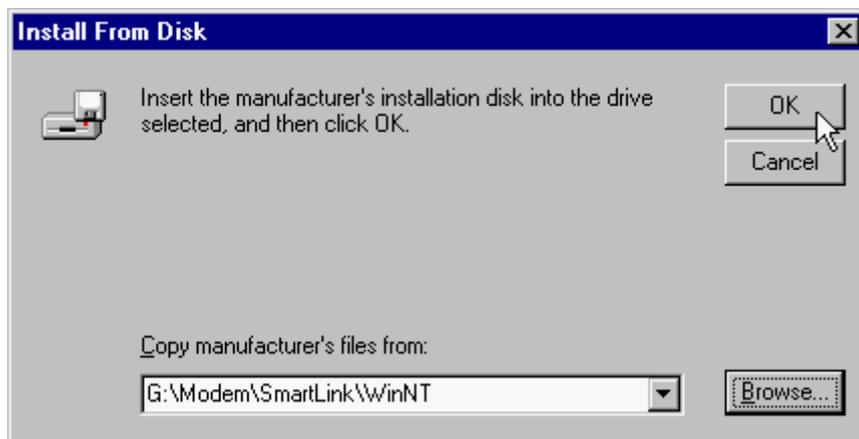
5. Select **Don't detect my modem; I will select it from a list** and click **Next**.



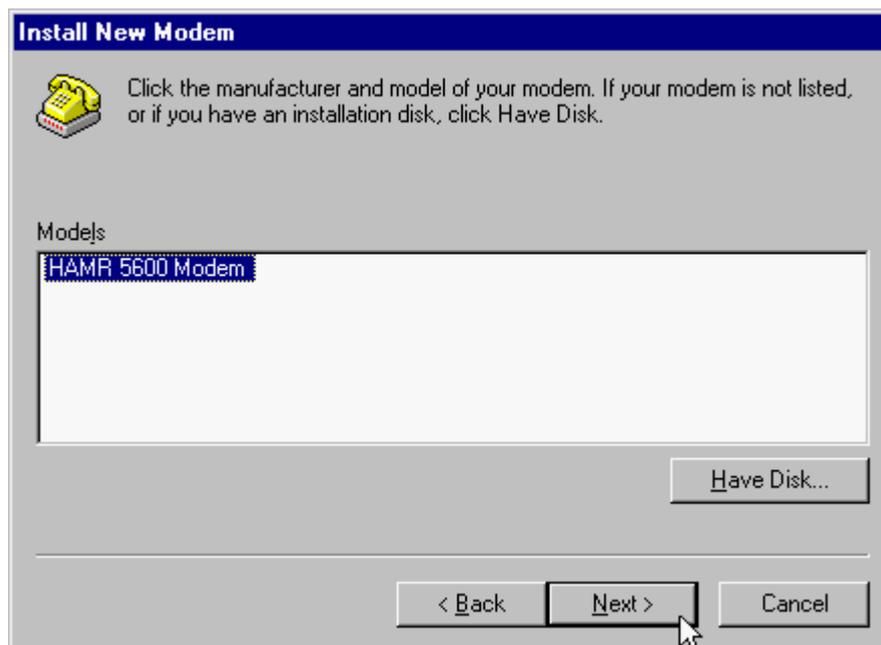
6. Click **Have Disk...** button to continue.



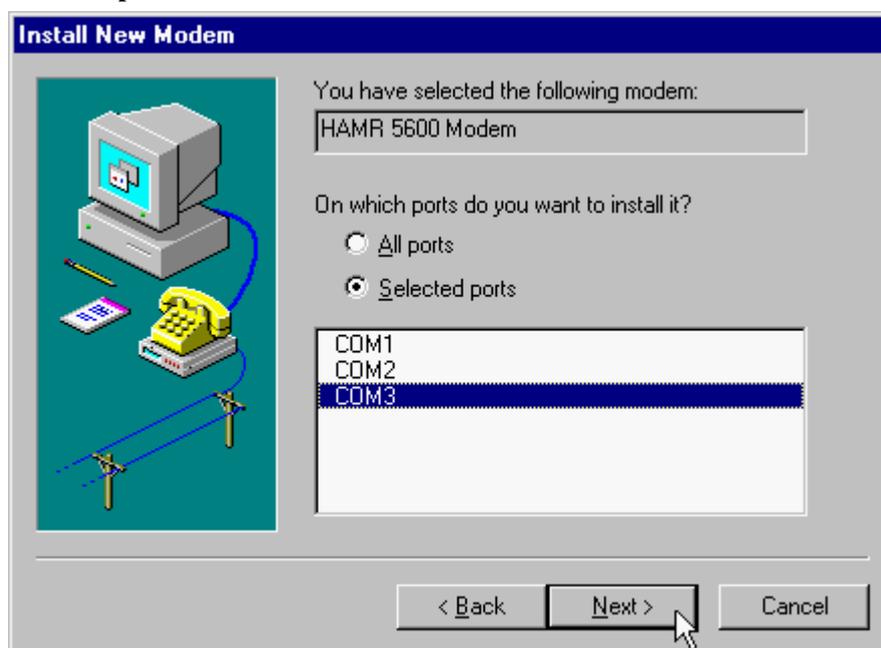
7. Please type in **G:\Modem\SmartLink\WinNT** or use **Browse...** to search, then click **OK** to confirm the location.



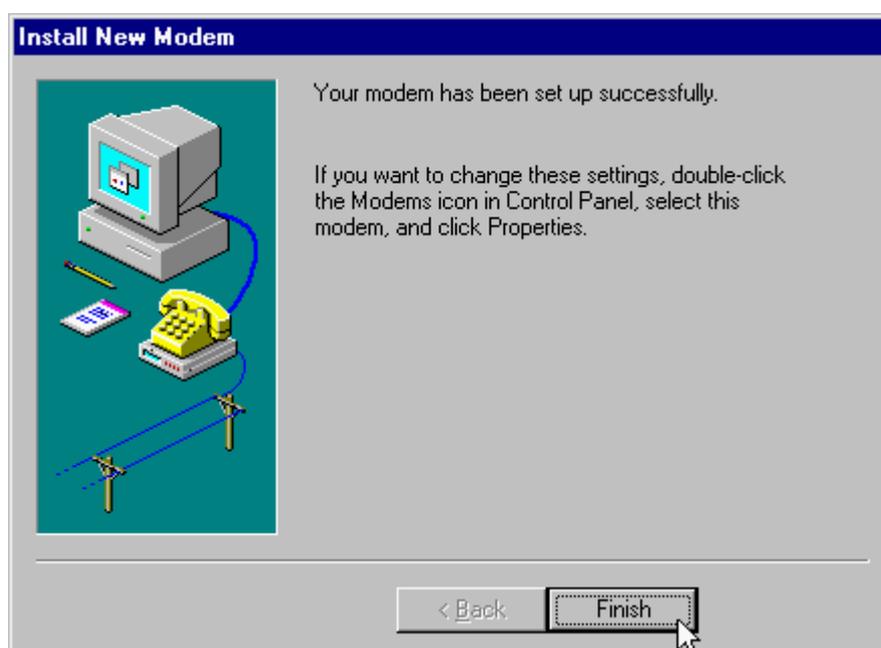
8. Select **HAMR 5600 Modem** then click **Next**.



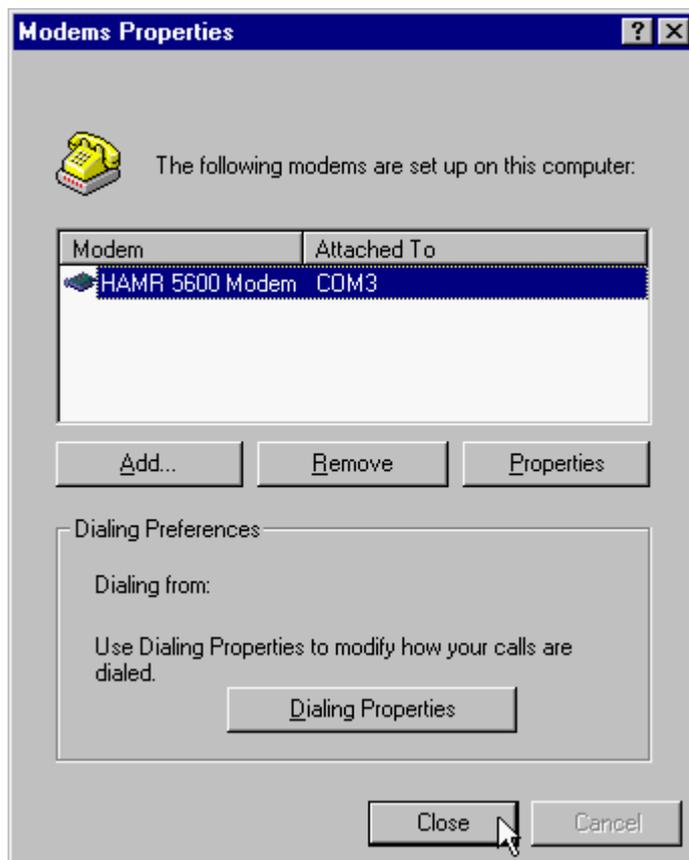
9. Select **Selected ports** and select **COM 3** which selected before, then click **Next**.



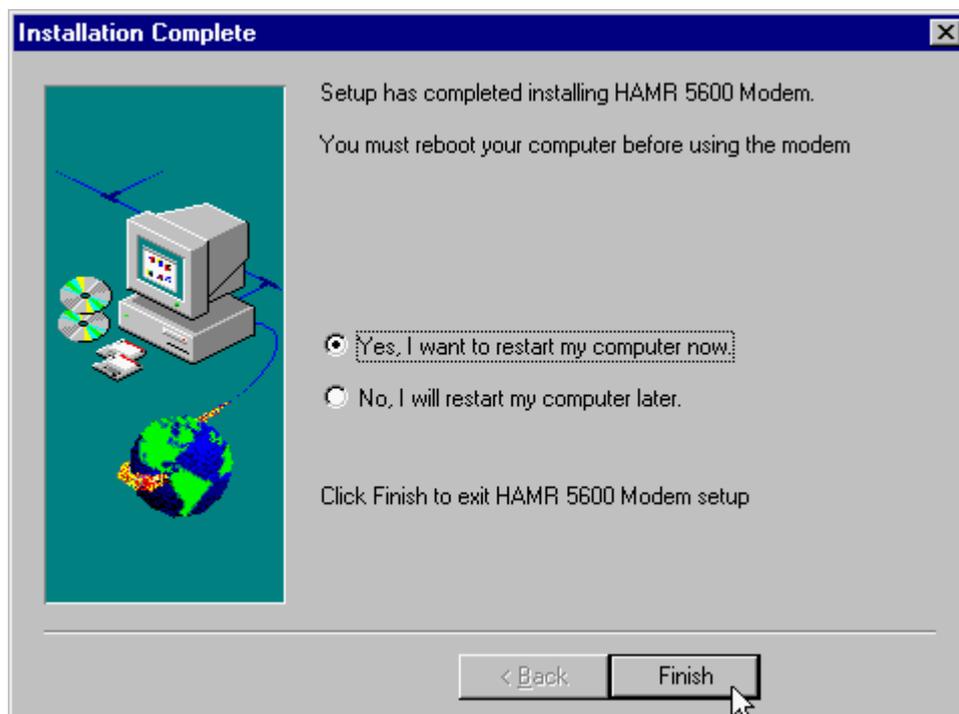
10. Click **Finish** to continues.



- 11. Click **Close** to continue.



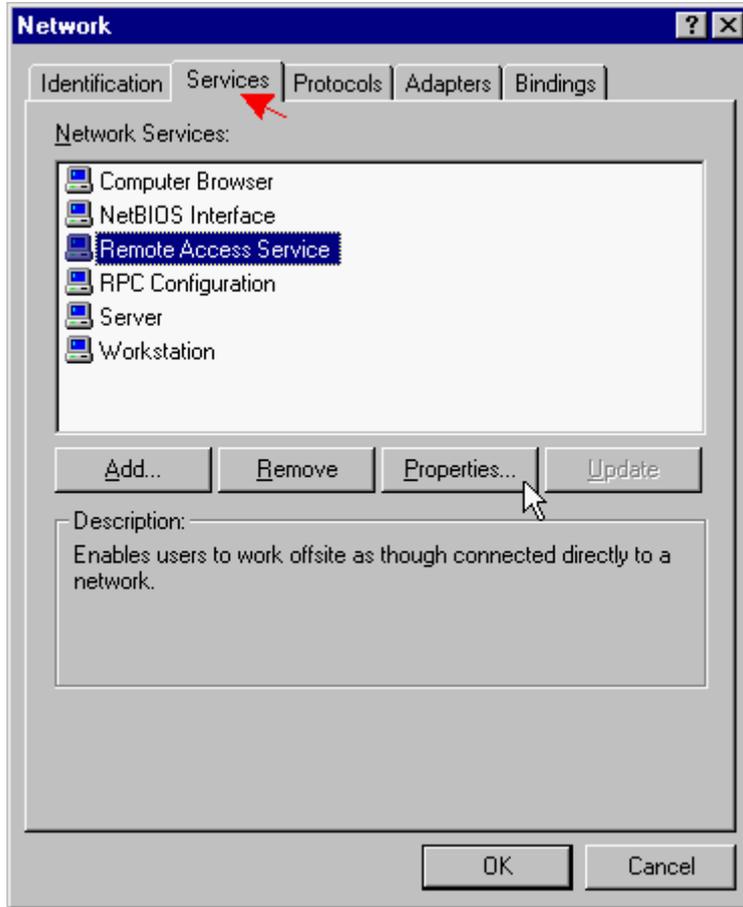
12. Select **Yes, I want to restart my computer now**, then click **Finish**.



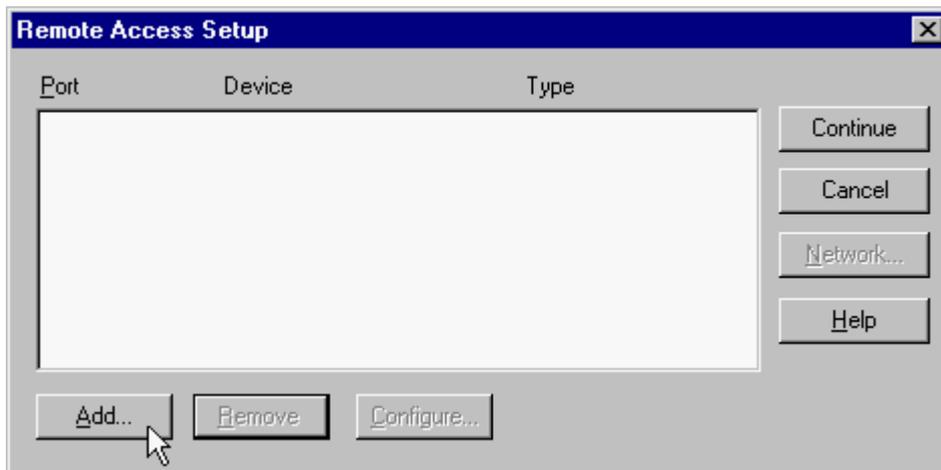
13. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Network** icon to configure the network setting.



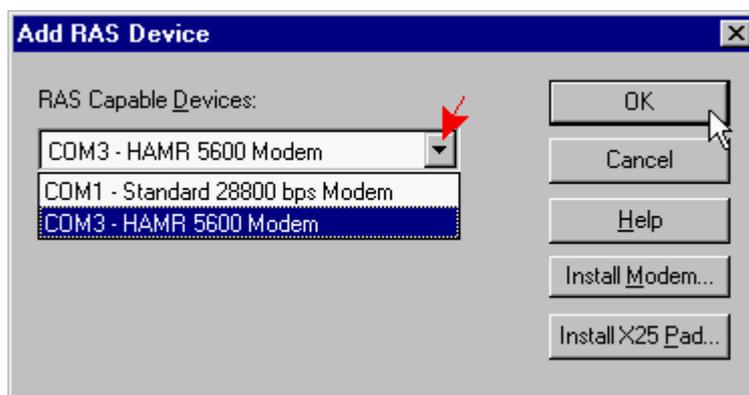
14. Click on the **Services** tab and select **Remote Access Service**, then click **Properties**. If you can't see **Remote Access Service** on the screen click **Add** to install **Remote Access Service**.



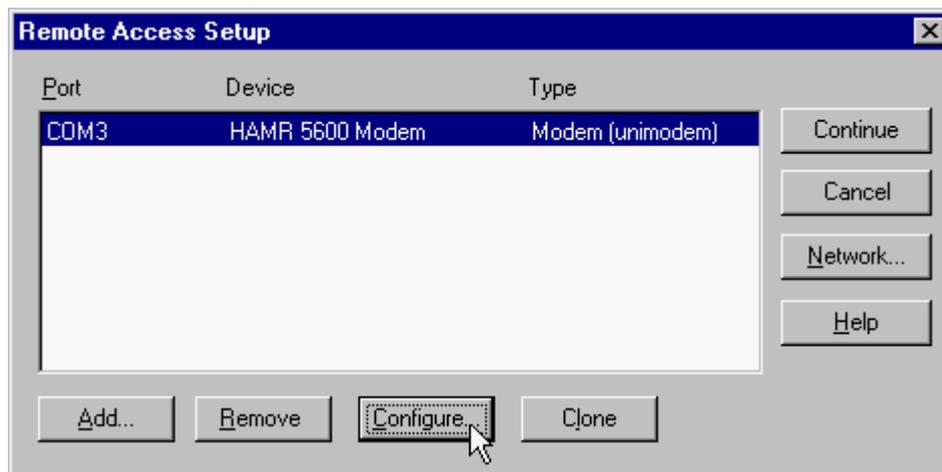
15. Click on the **Add** button to add modem. If there is any modem in the list, please click **Remove** first.



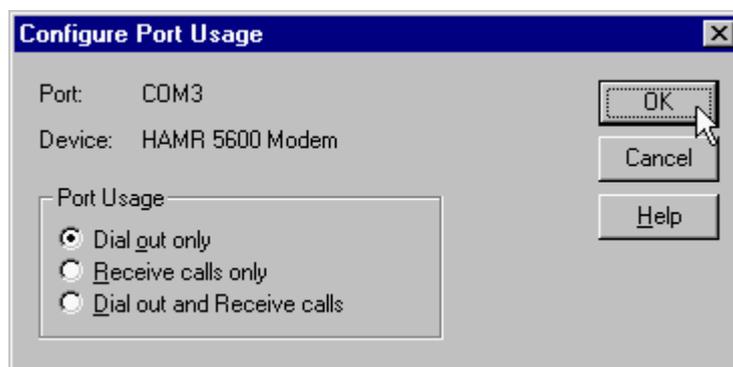
16. Select **COM3-HAMR 5600 Modem** from the list, then click **OK** to continue.



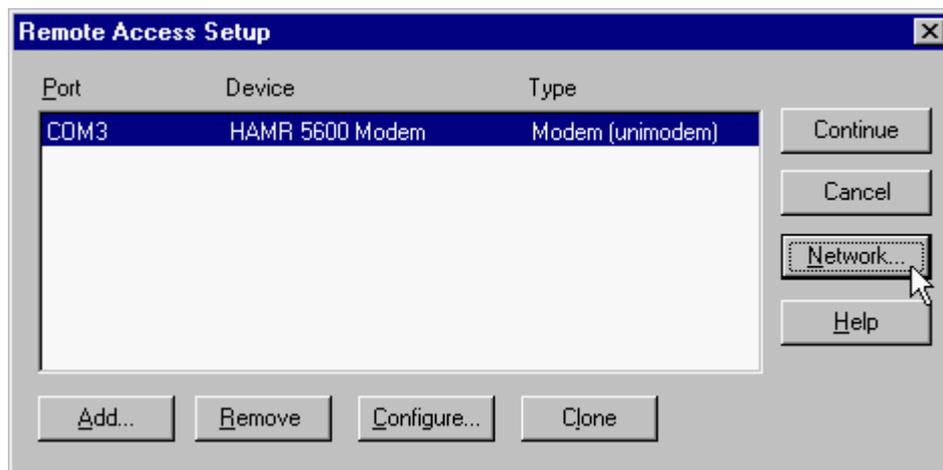
17. Click **Configure** to configure port usage.



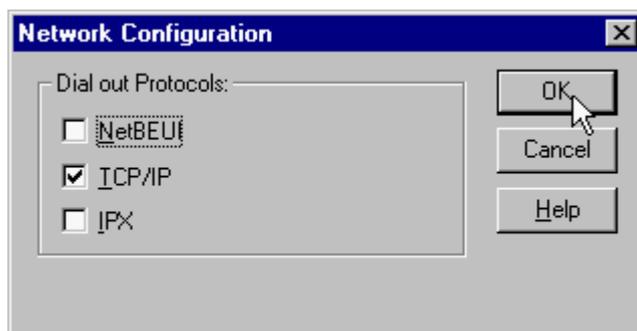
18. Select **Dial out only** for **Port Usage** and click **OK** to confirm the settings.



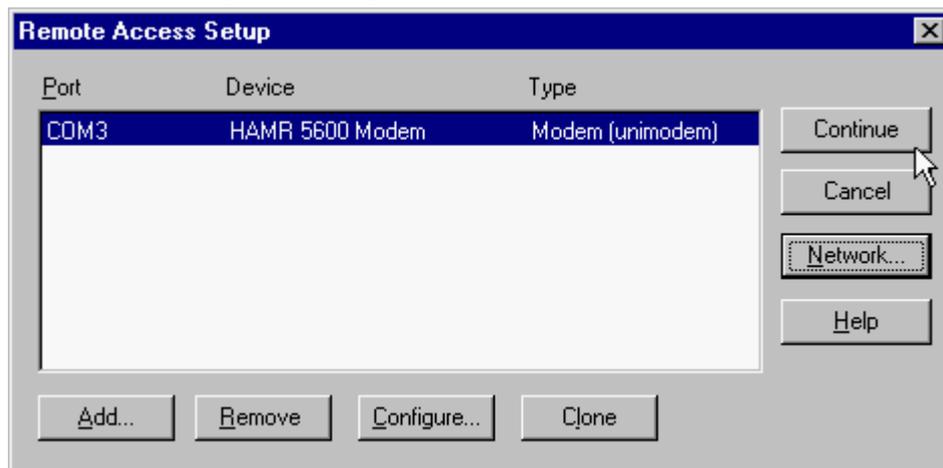
19. Click **Network** to configure the network.



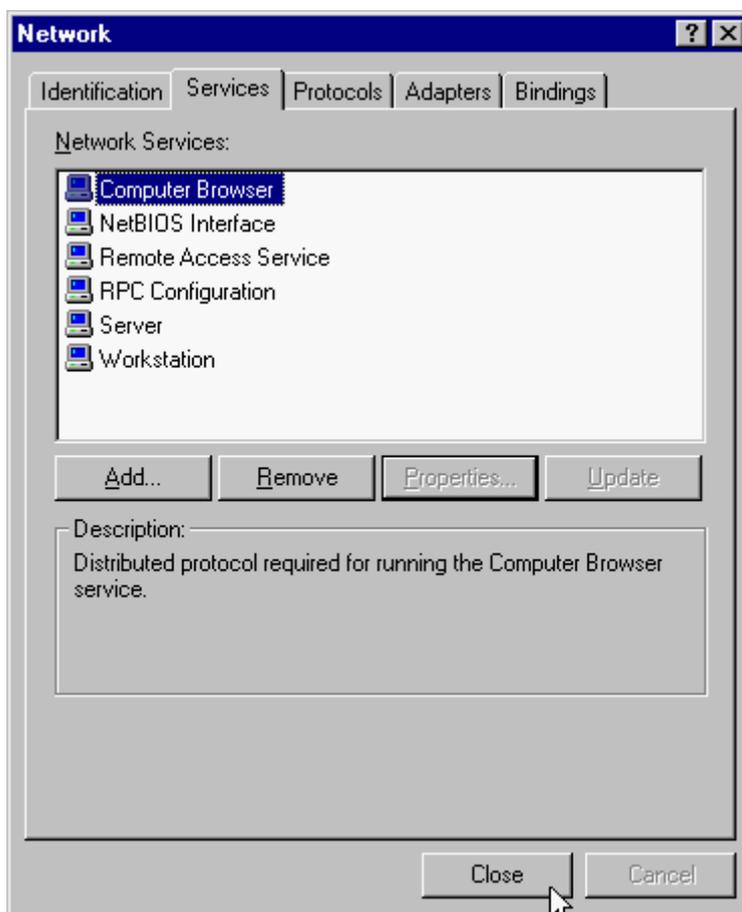
20. Select **TCP/IP** for **Network Configuration** and click **OK** to confirm the settings.



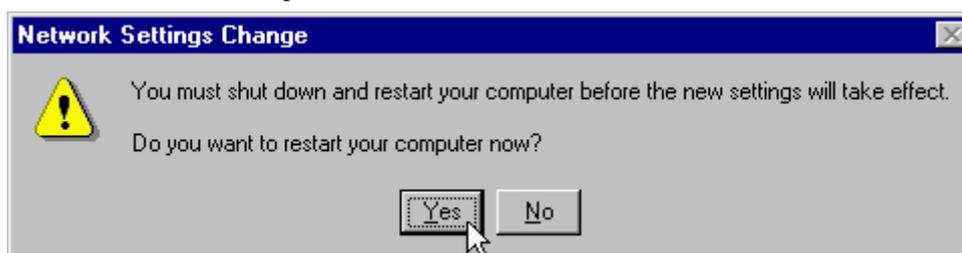
21. Click **Continue** to complete the setup.



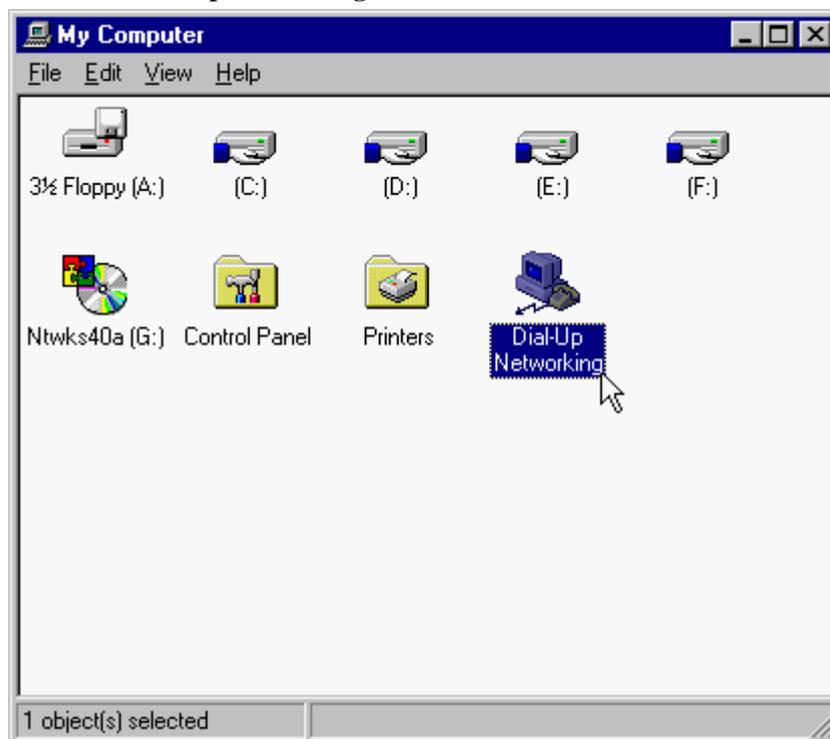
22. Click **Close** to continue.



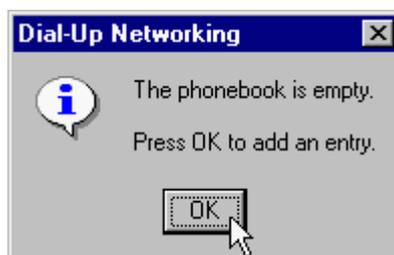
23. Click **Yes** to restart the computer now



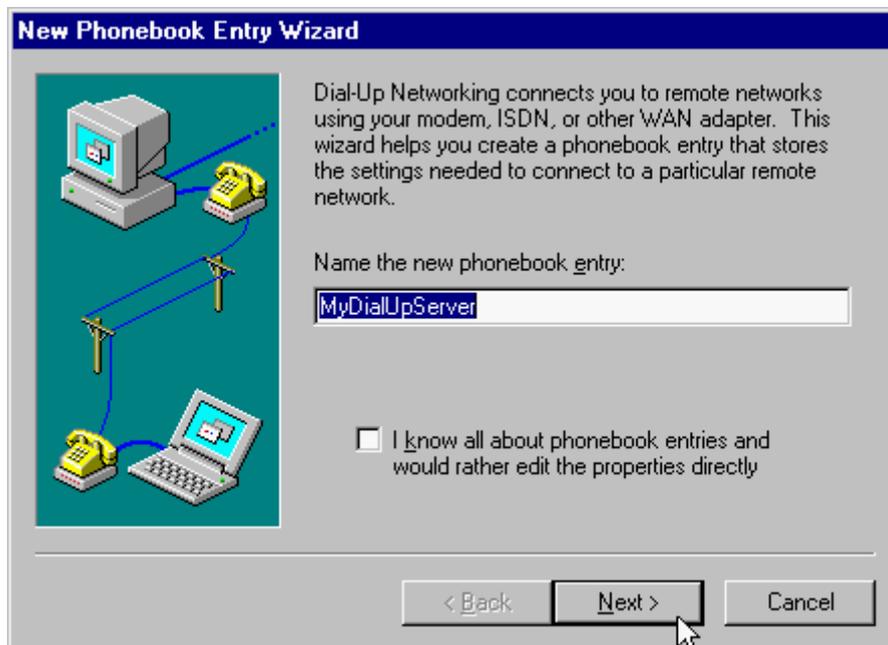
24. After restarting your computer, please double-click on the **My Computer** icon on the desktop and double-click on the **Dial-Up Networking** icon.



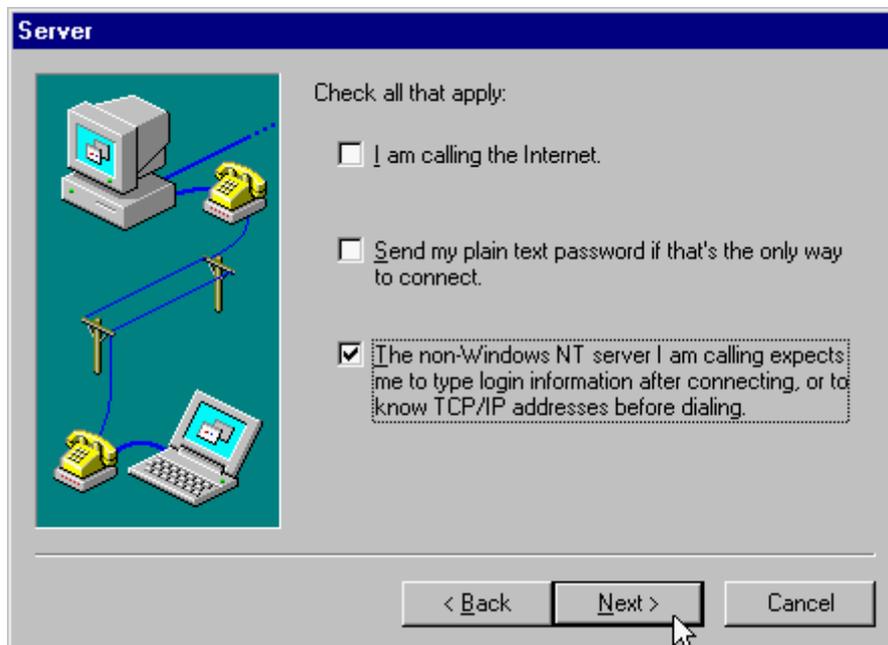
25. Click **OK** to continue.



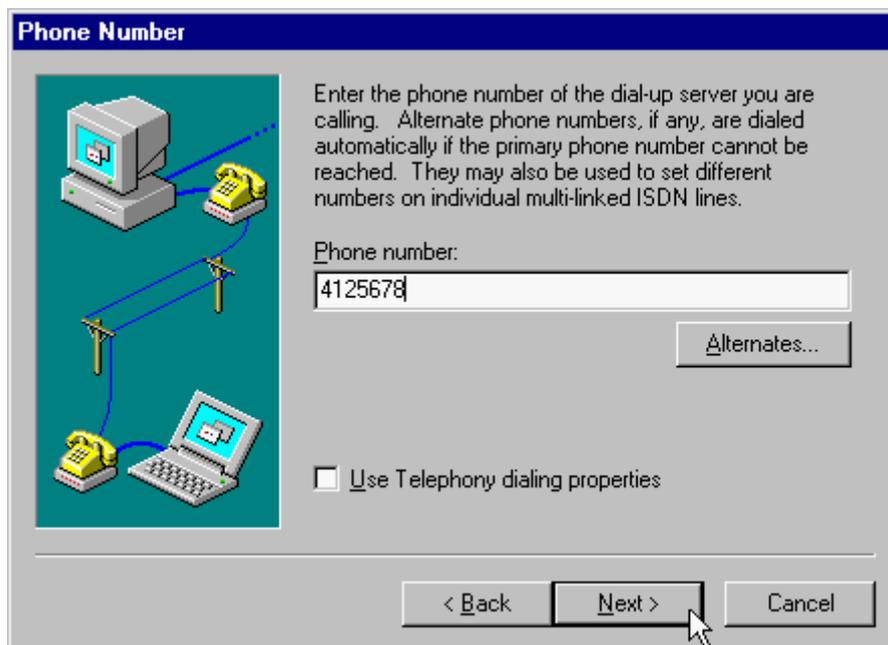
26. You may use the name provided or enter a different one for the phonebook, then click **Next** to continue.



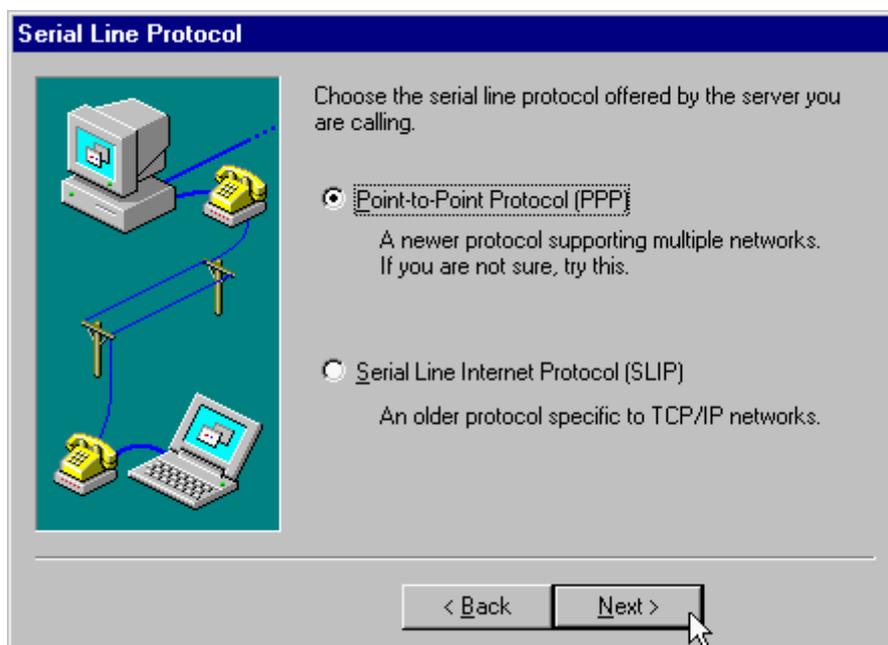
27. Select **The non-Windows NT server I am calling ...**, then click **Next** to continue.



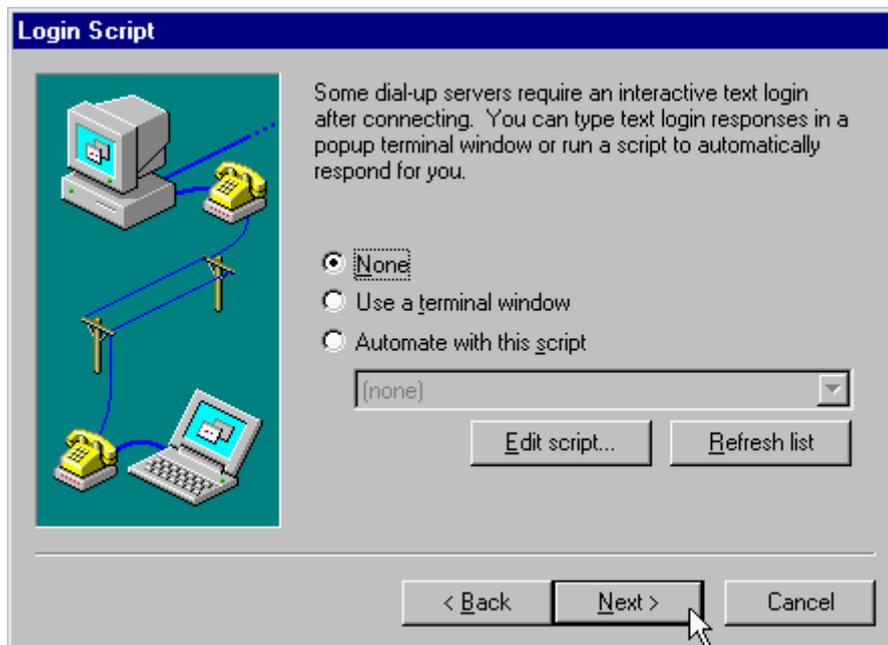
28. Enter the phone number of the dial-up server provided by your local ISP, then click **Next** to continue.



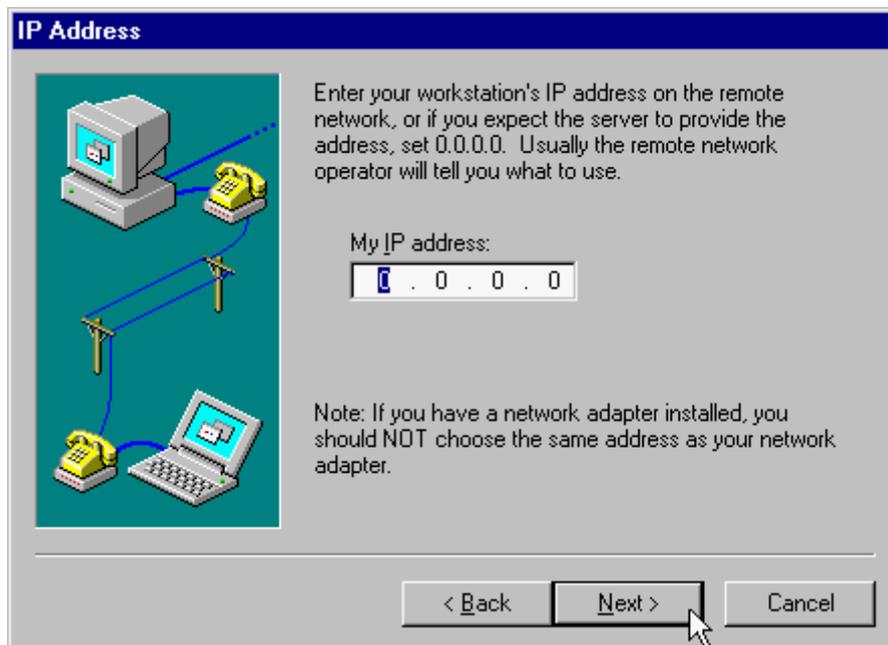
29. Select **Point-to-Point Protocol (PPP)** for **Serial Line Protocol** and click **Next** to continue.



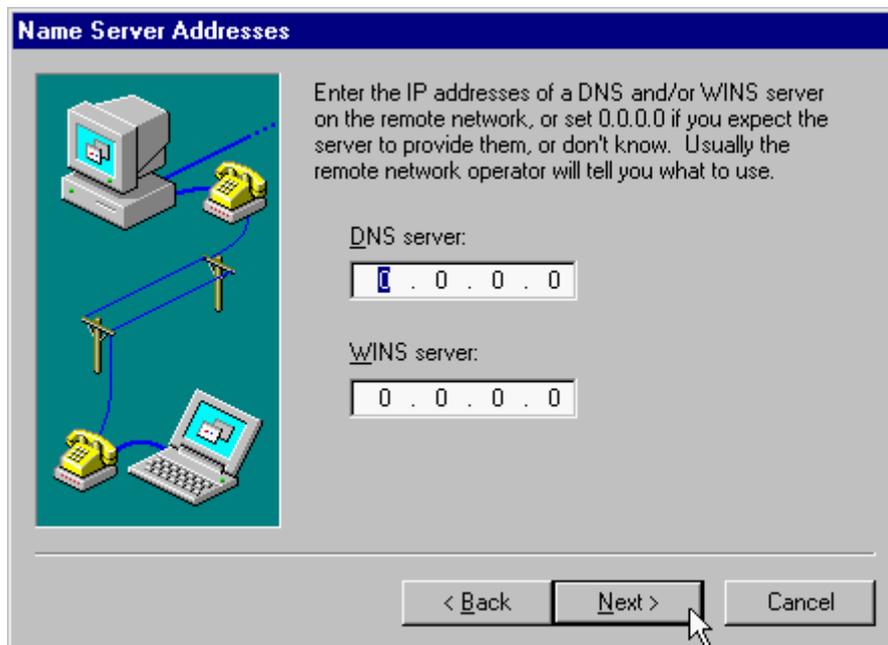
30. Select **None** under normal condition, or consult with your local ISP for other choices, then click **Next** to continue.



31. Enter your IP address if you have a fixed one or leave the value **0.0.0.0**, then click **Next** to continue.



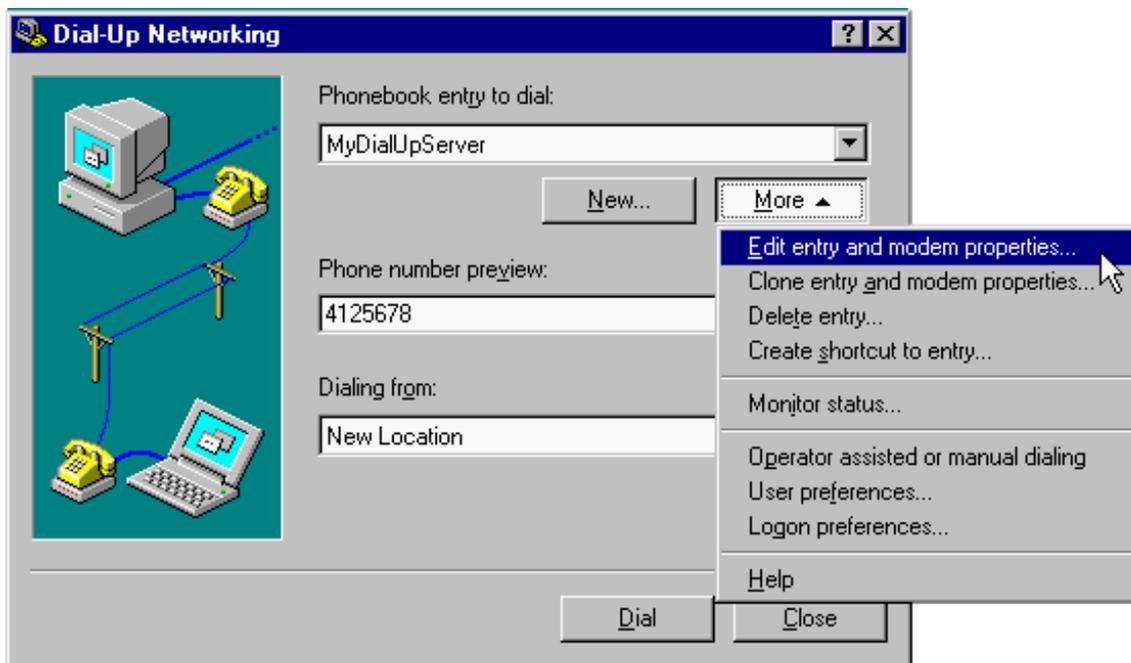
32. Enter the IP addresses of a **DNS** and/or **WINS** server, or set **0.0.0.0** if you are not sure. Then click **Next** to continue.



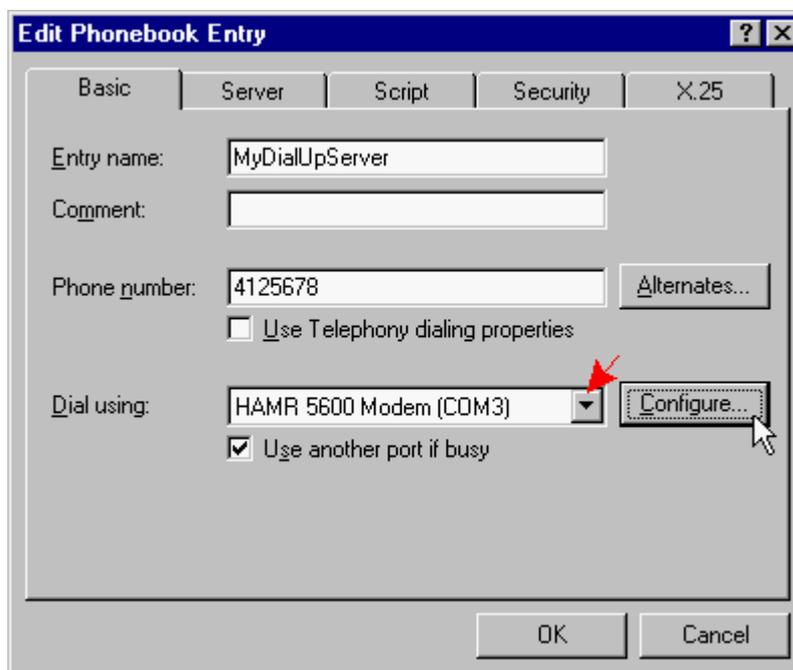
33. Click **Finish** to save the settings for the phonebook.



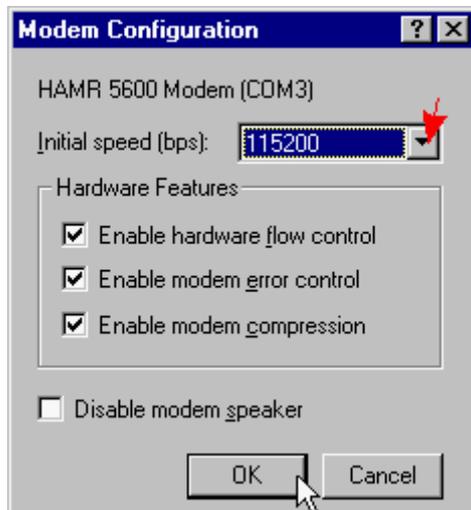
34. Click **More** and select **Edit entry and modem properties...**



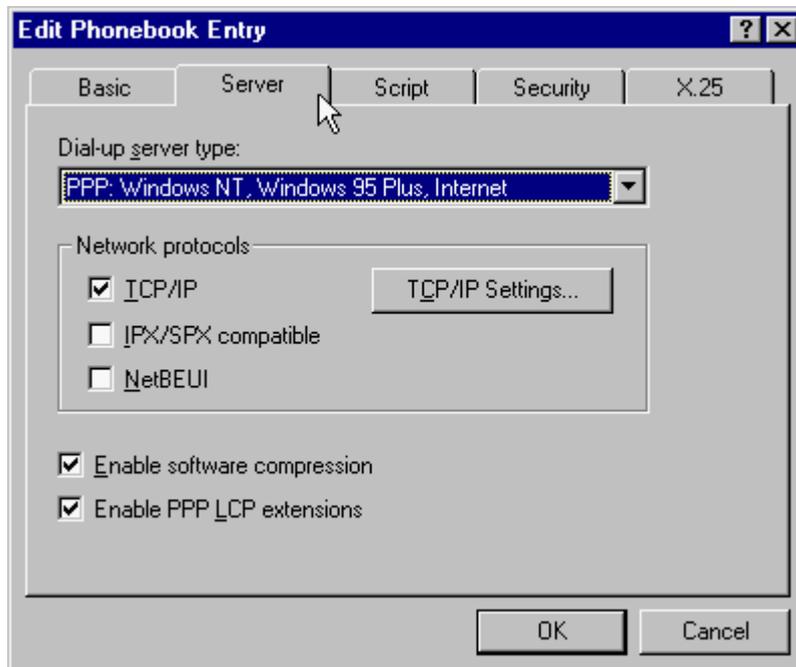
35. Select **HAMR 5600 Modem (COM3)** from the list of **Dial using**, then click **Configure...** to configure the modem.



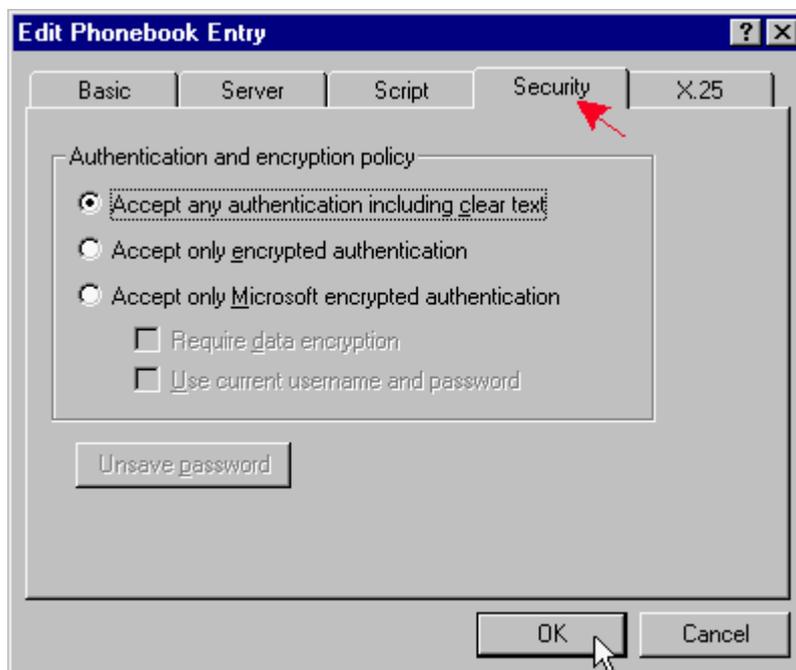
36. Select **115200** from the list of **Initial speed** and enable all options for **Hardware Features**, then click **OK** to confirm the settings.



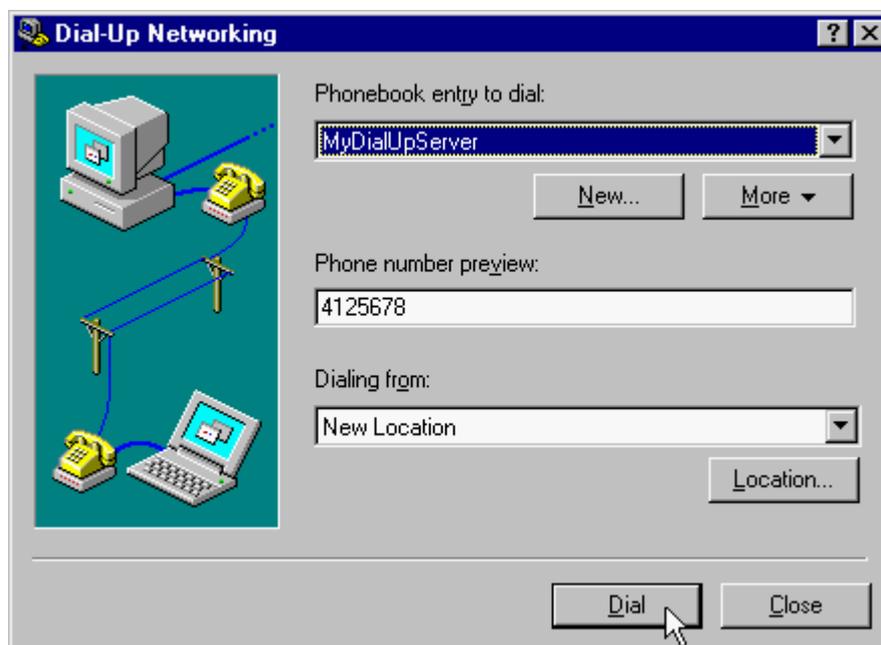
37. Click on the **Server** tab and select **TCP/IP** for **Network protocols**, **Enable software compression** and **Enable PPP LCP extensions**.



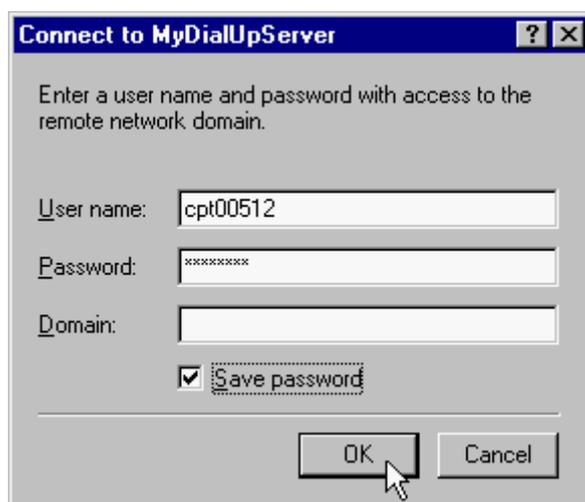
38. Click on the **Security** tab and select **Accept any authentication including clear text**, then click **OK** to confirm the settings.



39. Click **Dial** to connect to.



40. Enter the user name and password, then click **OK** to get a connection to your local ISP.



The image shows a Windows-style dialog box titled "Connect to MyDialUpServer". The dialog has a blue title bar with a question mark icon and a close button (X). The main area contains the text "Enter a user name and password with access to the remote network domain." Below this text are three input fields: "User name:" containing "cpt00512", "Password:" containing "*****", and "Domain:" which is empty. Below the input fields is a checked checkbox labeled "Save password". At the bottom of the dialog are two buttons: "OK" and "Cancel". A mouse cursor is pointing at the "OK" button.

Windows 2000

1. Windows will detect the modem automatic; please insert the driver CD supplied and clicks **Next**.



2. Select **Search for a suitable driver for my device [recommended]**, then click **Next**.



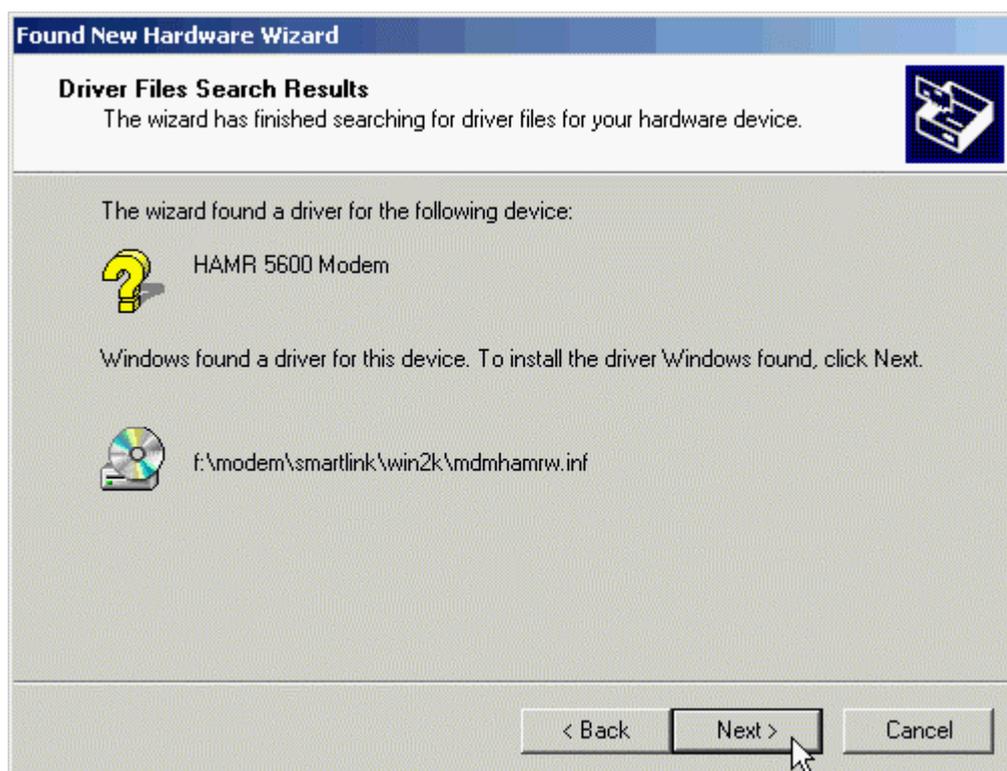
3. Select **Specify a location**, then click **Next**.



- Please type **F:\Modem\SmartLink\Win2K** or use **Browse...** to find the driver directly, then click **OK** (F is the letter of CD-ROM drive).



- Windows will find a driver for this device, then click **Next**.



- Click **Yes** to continue.



- Click **Finish** to end this procedure.

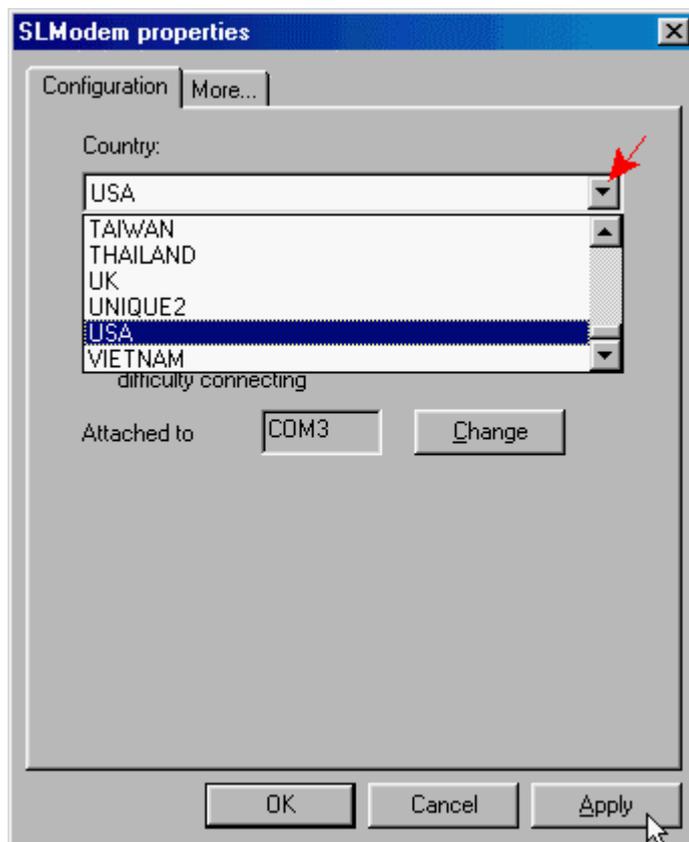


4.3 Selecting Modem Country

1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Modem Country Selection**.



2. Select modem country form a list, then click **Apply** to confirm the settings.



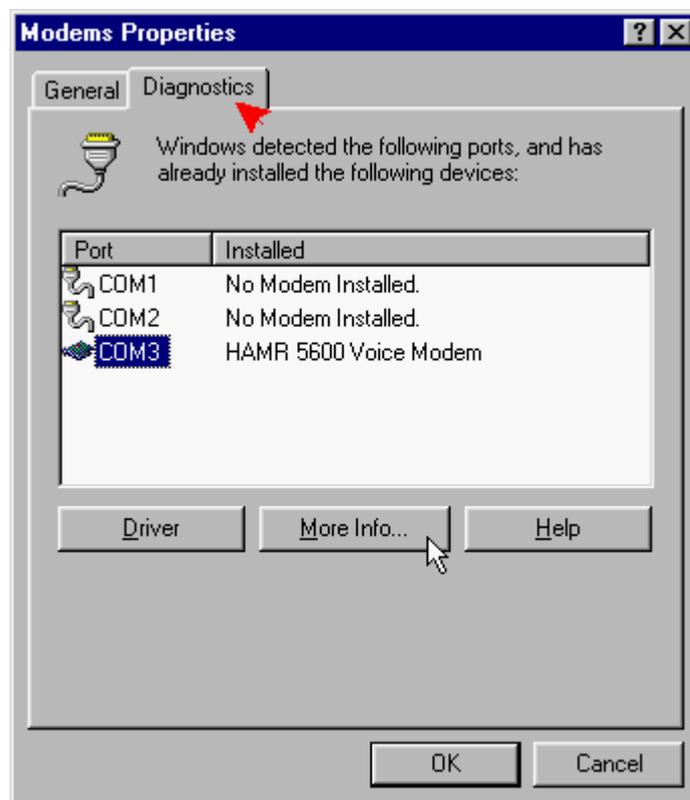
4.4 Diagnostics

Windows 95/98/ME

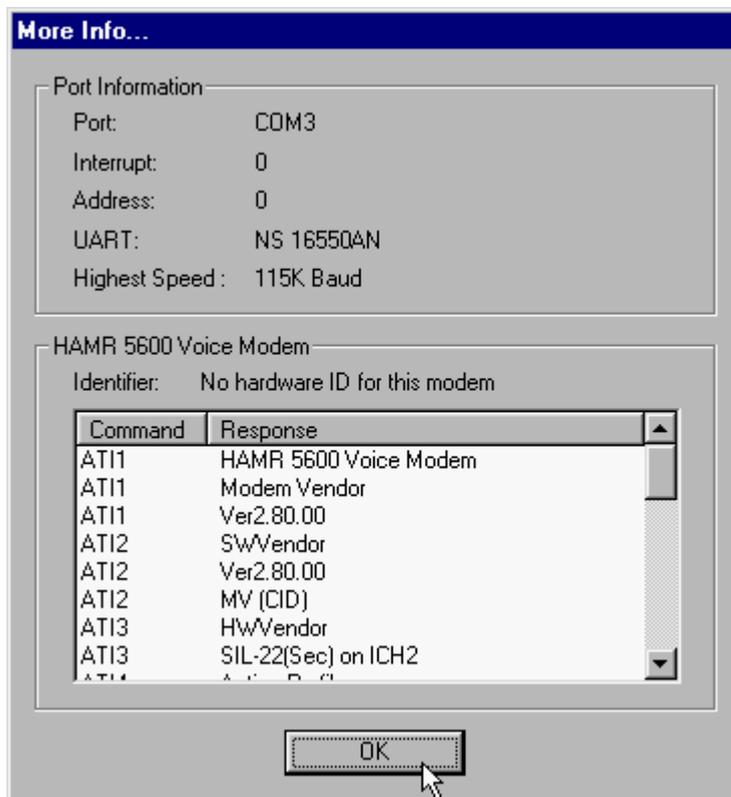
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel** then double-click on the **Modems** icon.



2. Click on the **Diagnostics** tab. Select the **COM Port** that modem is setting and click on the **More Info...** button to start the test.



3. If your modem is responding to AT commands and functioning correctly, it means that your modem is working properly. Click **OK** to end this procedure.

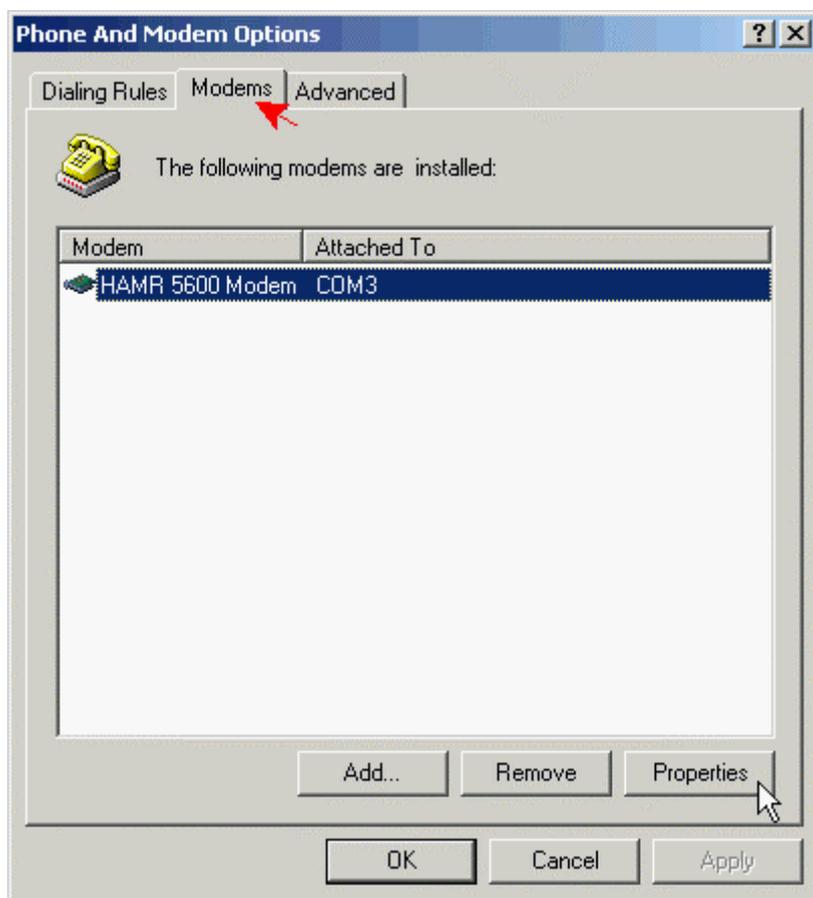


Windows 2000

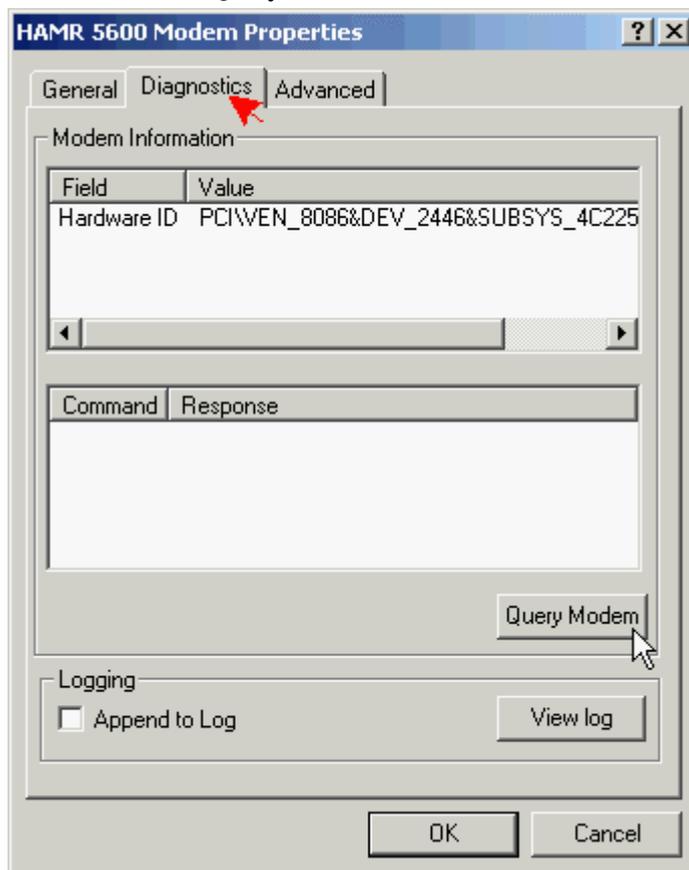
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Phone and Modem Options** icon.



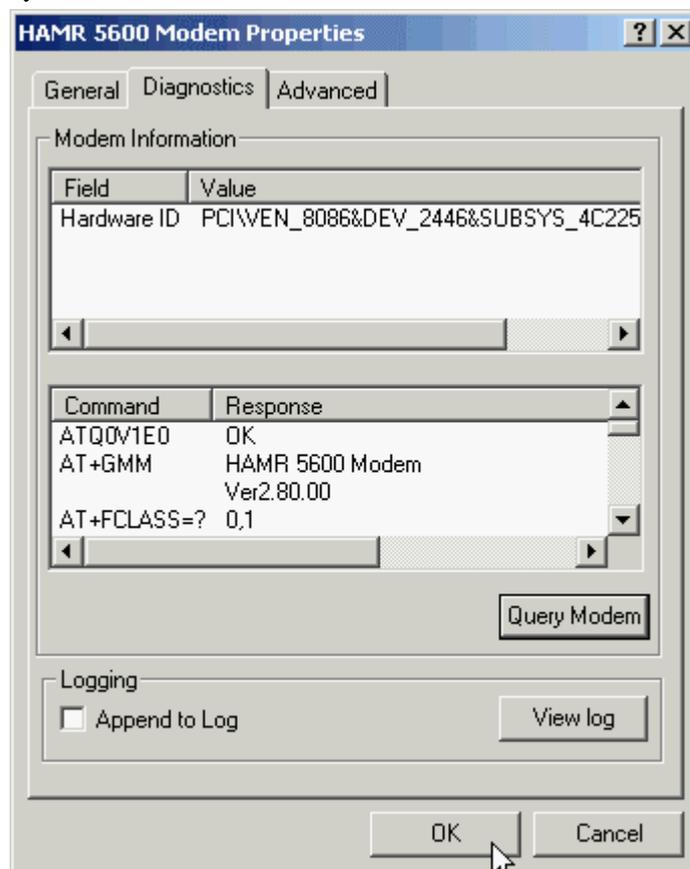
2. Click **Modems** tab and select **HAMR 5600 Modem**, then click **Properties**.



3. Click **Diagnostics** tab, then click **Query Modem**.



4. If your modem is responding to AT commands and functioning correctly, it means that your modem is working properly. Click **OK**.



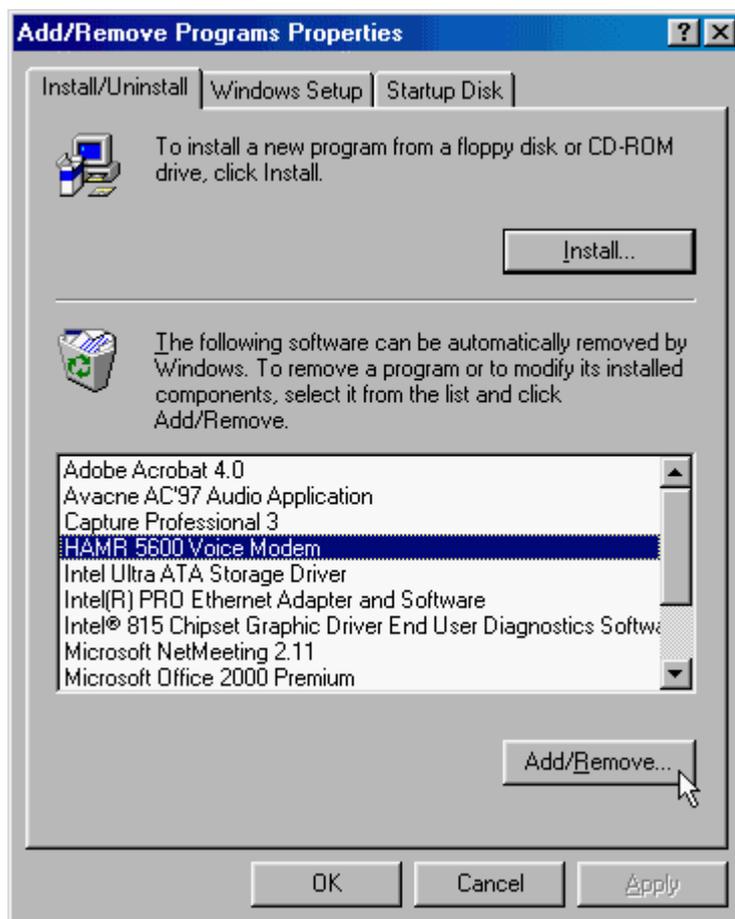
4.5 Uninstalling Procedure

Windows 95/98

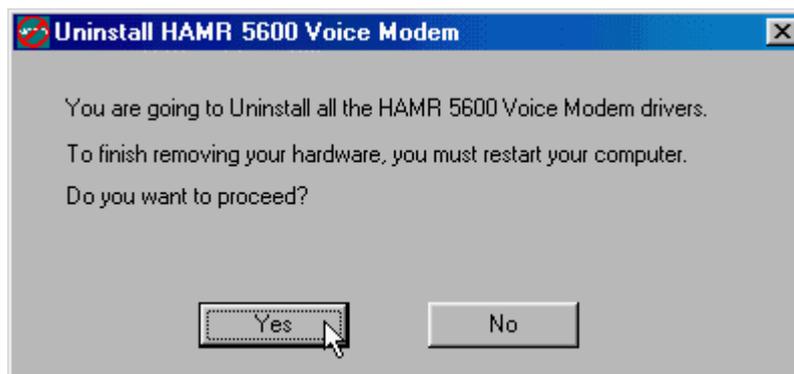
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Add/Remove Programs** icon.



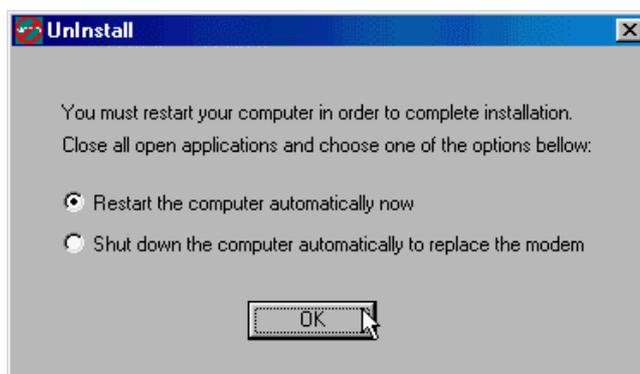
2. Select **HAMR 5600 Voice Modem** from a list and click **Add/Remove** to remove the modem drivers.



3. Click **Yes** to confirm the deletion.



4. Select **Restart the computer automatically now** and click **OK** to end this procedure.

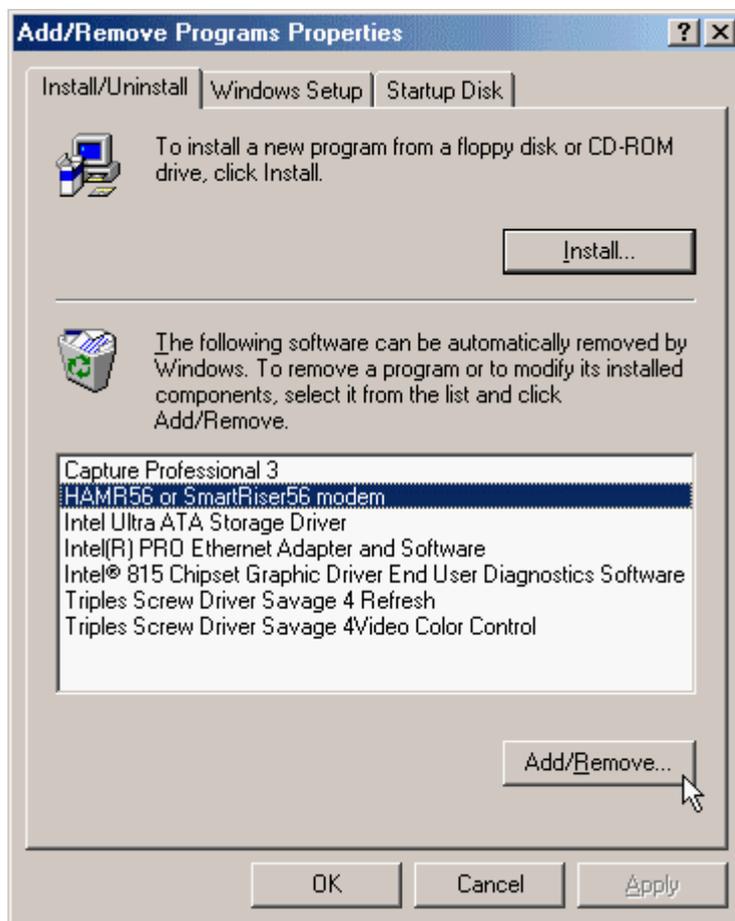


Windows ME

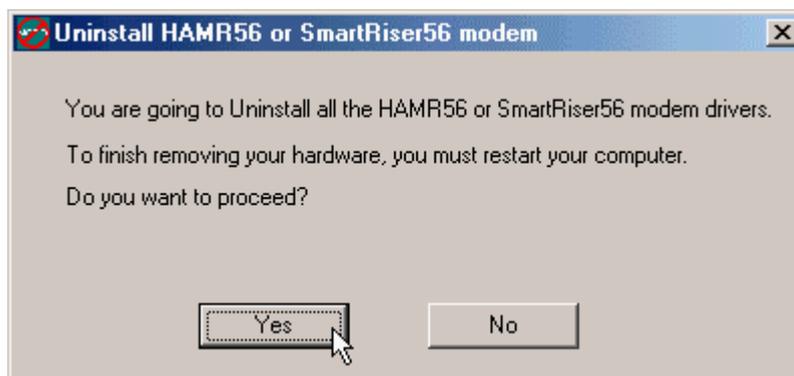
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Add/Remove Programs** icon.



2. Select **HAMR56 or SmartRiser56 modem** from the list and click **Add/Remove** to remove the modem drivers.



3. Click **Yes** to confirm the deletion.



4. Select **Restart the computer automatically now** and click **OK** to end this procedure.

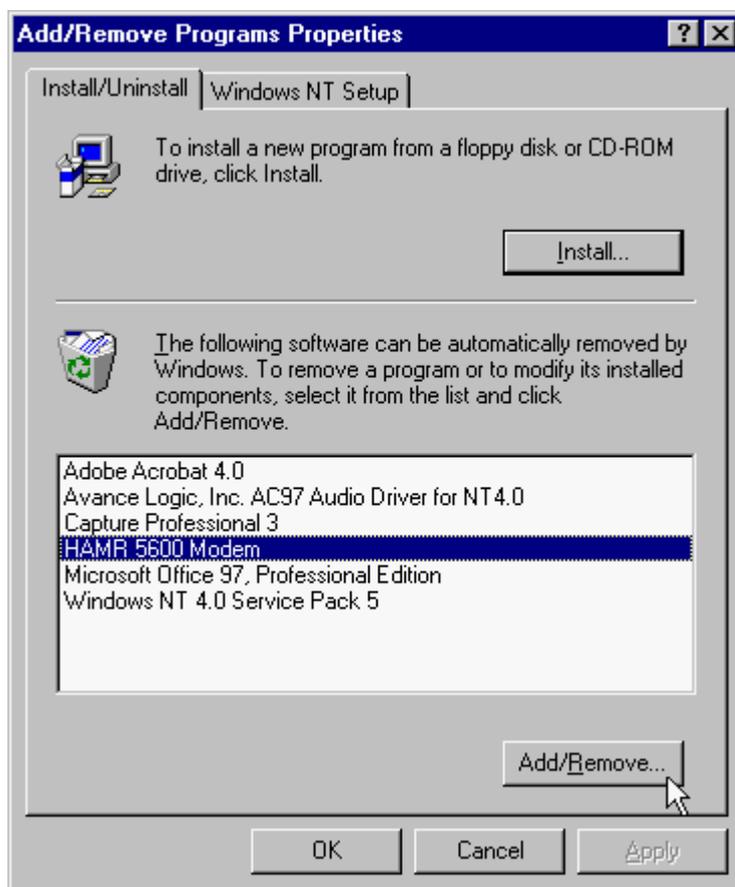


Windows NT4.0

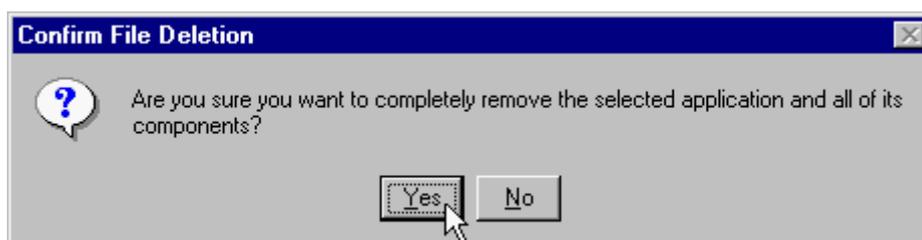
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**.
Then double-click on the **Add/Remove Programs** icon.



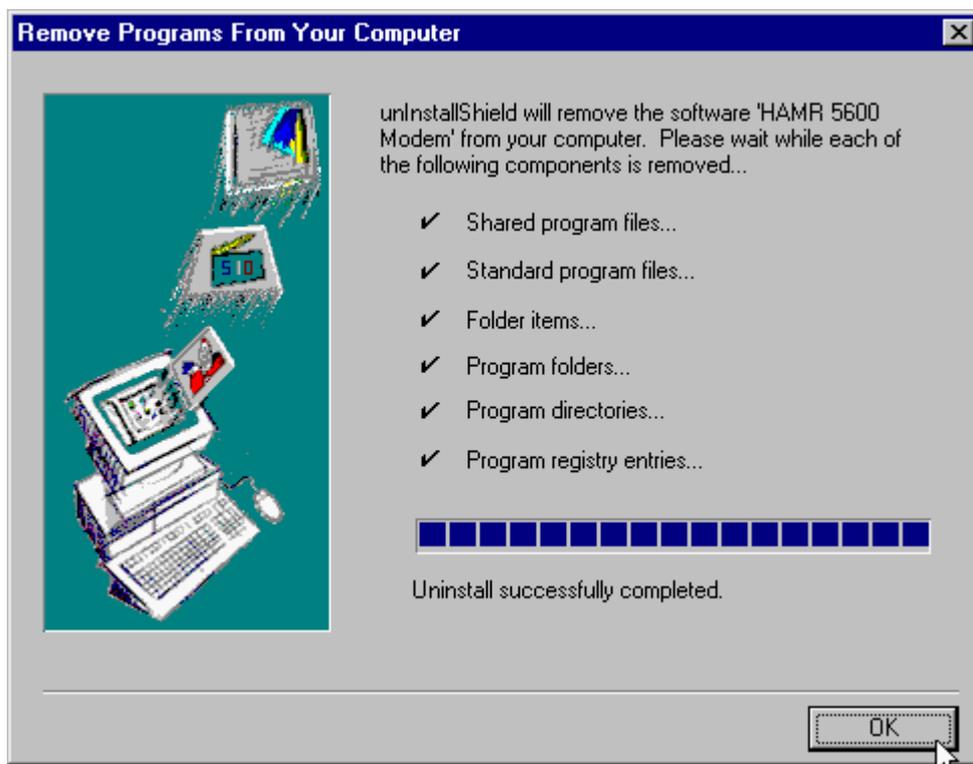
2. Select **HAMR 5600 Modem** form the list and click **Add/Remove** to remove the modem drivers.



3. Click **Yes** to confirm the deletion.



4. Click **OK** to end this procedure.

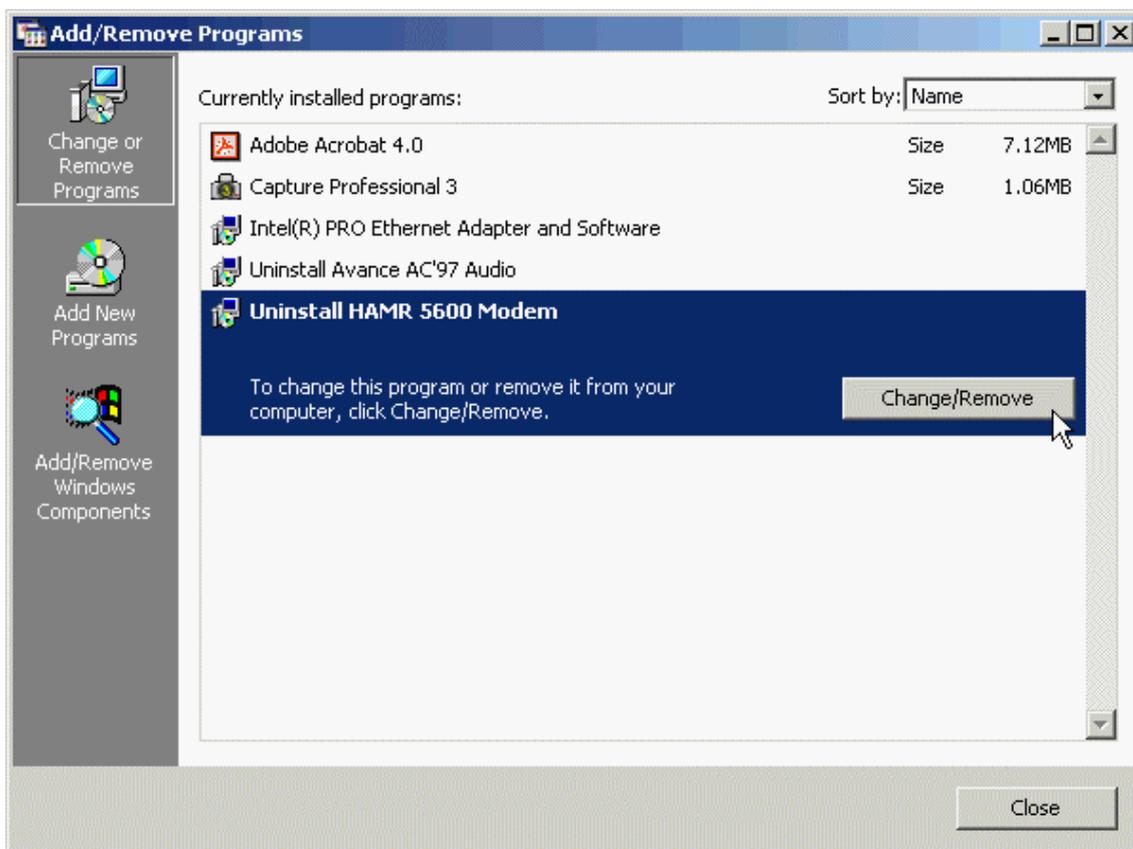


Windows 2000

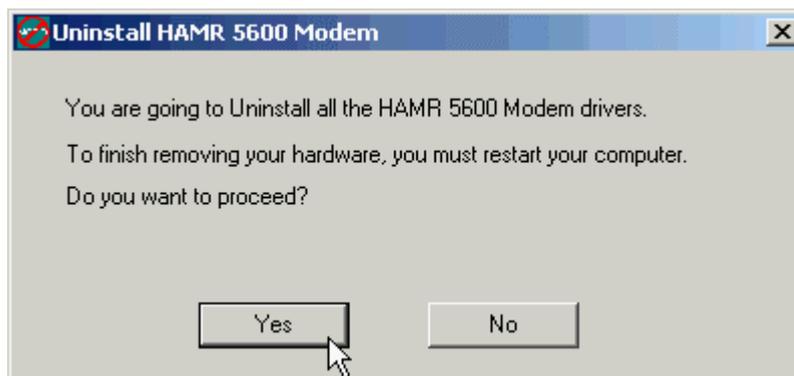
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Add/Remove Programs** icon.



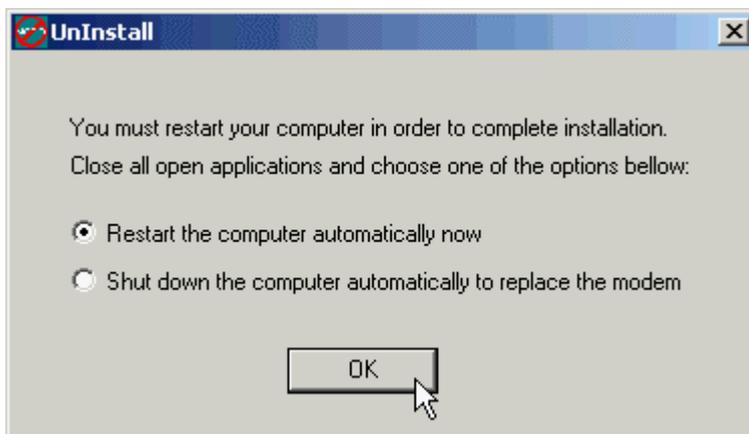
2. Select **Uninstall HAMR 5600 Modem**, then click **Change/Remove**.



3. Click **Yes** to confirm the deletion.



4. Select **Restart the computer automatically now** and click **OK** to end this procedure.



Chapter 5 56K Modem with Conexant chipset

5.1 Specifications

Chip Set	Conexant 11246, 20463-11
Line Connection	PSTN, 2 wires
Modem Data Transmission	BELL 103 and BELL 212A K56 flex and V.90 ITU-T V.21 (300 bps), ITU-T V.22 (1200 bps) ITU-T V.23 (1200 bps), ITU-T V.22 bis (2400 bps) ITU-T V.32 (9600/4800 bps), ITU-T V.32 bis (14400/1200/7200 bps) ITU-T V.34 bis (33600/28800)
Modem Fax Transmission	Send/Receive G3 Fax ITU-T V.27ter (4800 bps), ITU-T V.29 (9600 bps) ITU-T V.17 (14400 bps)
Modem Error Correction	MNP 2-4/V.42 LAPM
Modem Data Compression	MNP 5/V.42 bis
Modem Command Set	“AT” Command, Fax Class 1
Modem Communication Model	Asynchronous
Modem DTE Speed (MAX)	115,200 bps
Modem Transmit Level	-11dB ± 1dB m
Modem Flow Control	XON/XOFF, Default (RTS/CTS)
Modem Dialing Mode	Touch Tone /pulse
Modem Auto Dial & Auto Answer	YES
Modem Programmable Volume Control	YES
Modem Noted Features	Speed Buffering Auto Format/Speed sensing Auto Retrain
Modem Line in use detect	Yes
Modem 2nd phone pick up detect	Yes
Modem Speak Phone	Yes (Upgrade AC97 Sound Driver)
Modem Wake up on ring	Yes
Modem H.324	V.80 synchronous access mode support host-Controlled Communication protocols
Modem Telephony/voice /TAM	Yes
Modem Caller ID	Optional (USA)
Safety	FCC, CE, CTR21
Power	+3Vdual and less then 1W
OS	Support Win95/98/2000
System Requirement	PII233 MMX + 32M RAM+
Escape code	TIES
PC interface Specification.	AC-link 2.1 complaint
Upgrade	Soft ware

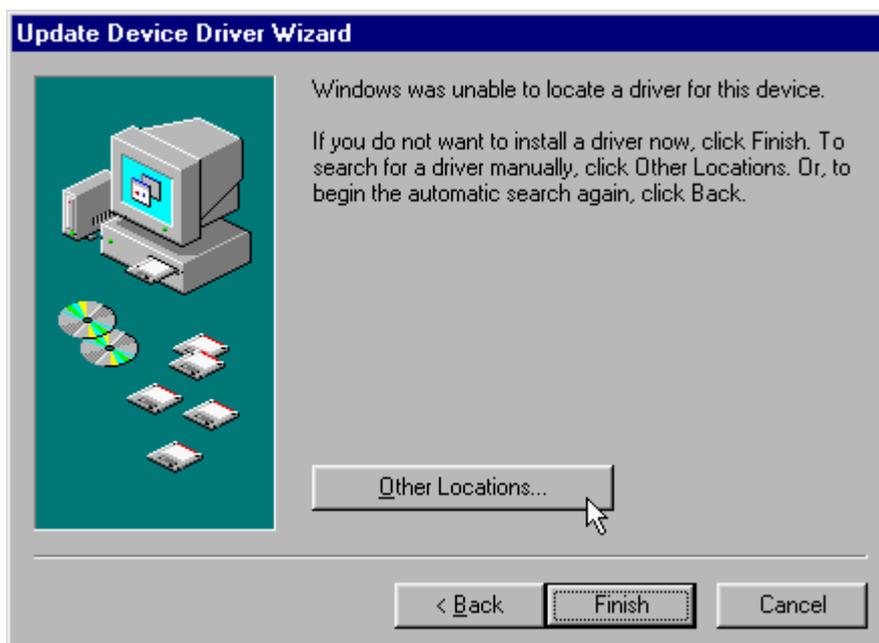
5.2 Software Installation

Windows 95B (OSR2)

1. When you see the message of **PCI Card** (or **PCI Communication Device** that depends on different motherboards) appearing, insert the driver CD came with the modem card. Then click **Next** to search the driver.



2. Click **Other Locations....** to select for a modem driver.



3. Please type in **F:\Modem\Conexant\Win9X** (F is the letter of the CD-ROM drive) or use **Browse...** to search, then click **OK** to confirm the location.



4. Click **Finish** to install the driver selected.



5. Click **OK** to continue.



6. Please type in **F:\Modem\Conexant\Win9X** or use **Browse** to search, then click **OK** to copy files.



Windows 98

1. When you see the message of **PCI Card** (or **PCI Communication Device** that depends on different motherboards) appearing, insert the driver CD came with the modem card. Then click **Next** to search the driver.



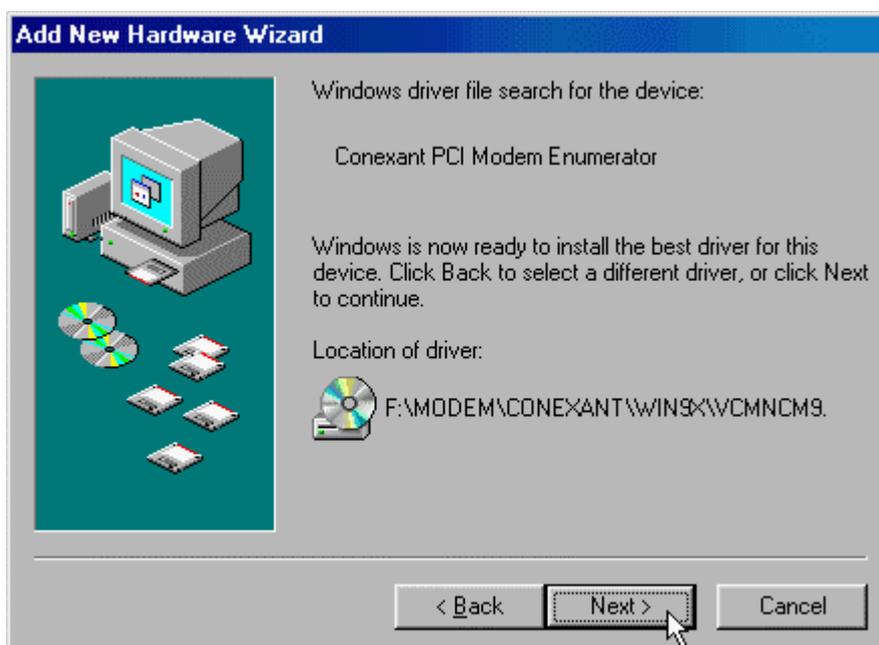
2. Select the **Search for the best driver for your device. [Recommended]** and click **Next** to continue.



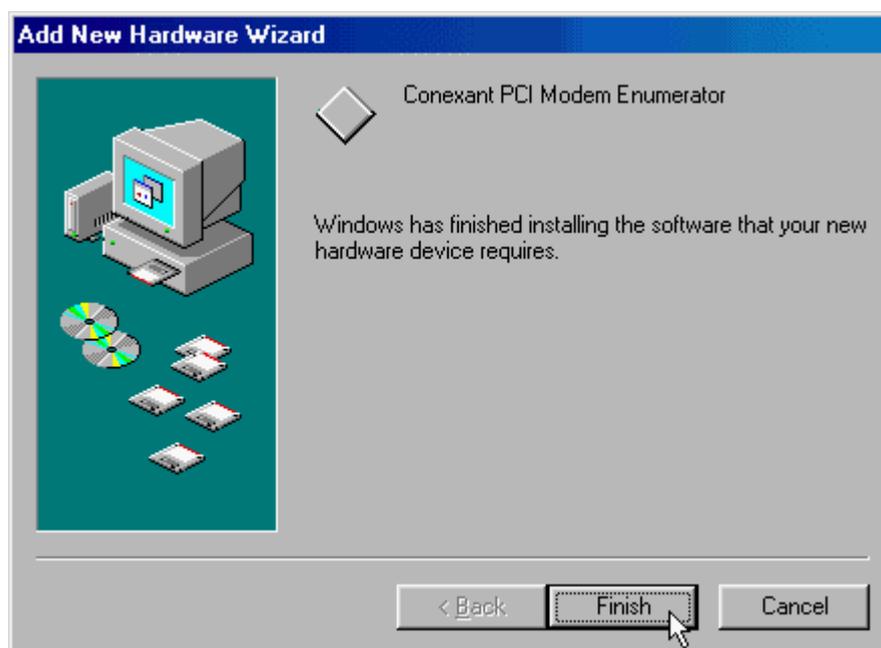
3. Select **Specify a location:** and type in **F:\Modem\Conexant\Win9X** (F is the letter of the CD-ROM drive) or use **Browse...** to search, then click **Next** to continue.



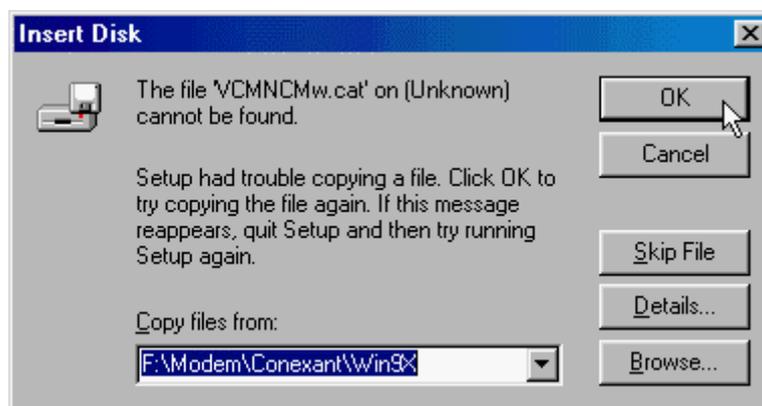
4. Windows has found the driver for the **Conexant PCI Modem Enumerator**, click **Next** to start the installation.



5. This installation has been done; click **Finish** to continue.



6. Please type in **F:\Modem\Conexant\Win9X** or use **Browse** to search, then click **OK** to copy files.



Windows 2000

1. Windows will detect the modem automatic; please insert the driver CD supplied and clicks **Next**.



2. Select **Search for a suitable driver for my device [recommended]**, then click **Next**.



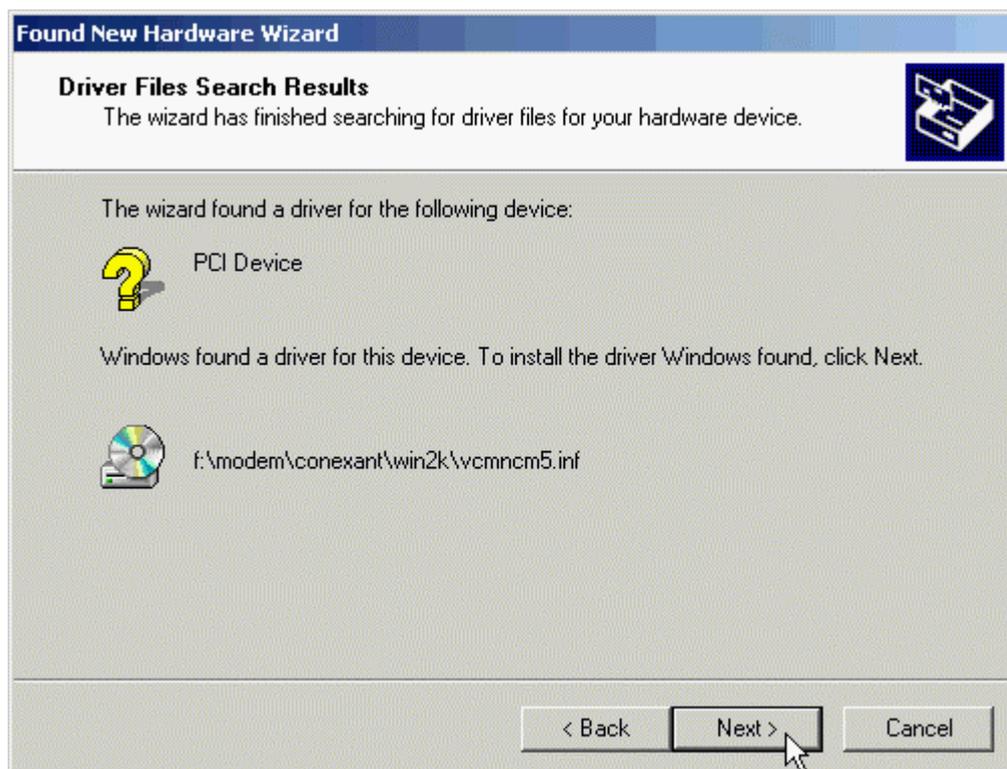
3. Select **Specify a location**, then click **Next**.



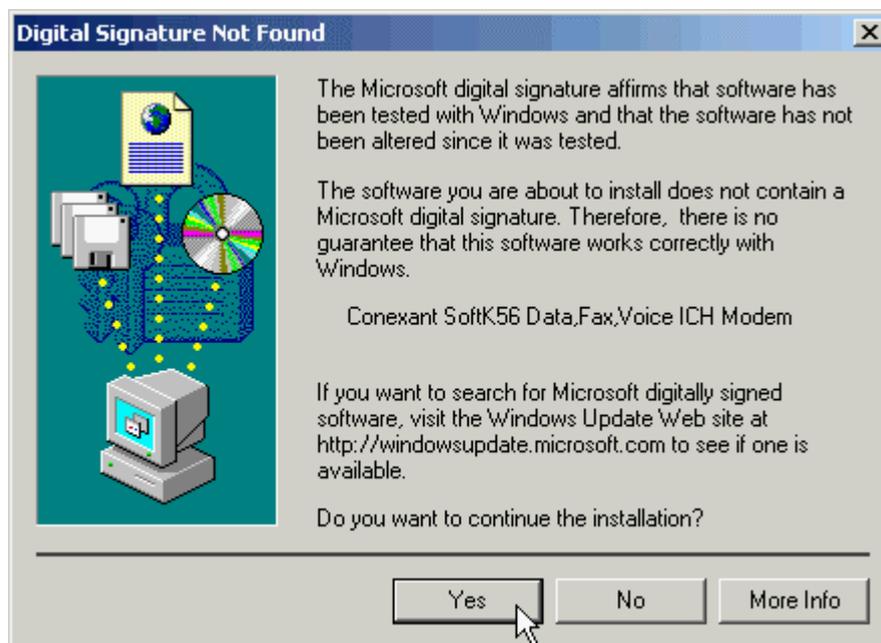
- Please type **F:\Modem\Conexant\Win2K** or use **Browse...** to find the driver directly, then click **OK** (F is the letter of CD-ROM drive).



- Windows will find a driver for this device, then click **Next**.



- Click **Yes** to continue.



- Click **Finish** to end this procedure.



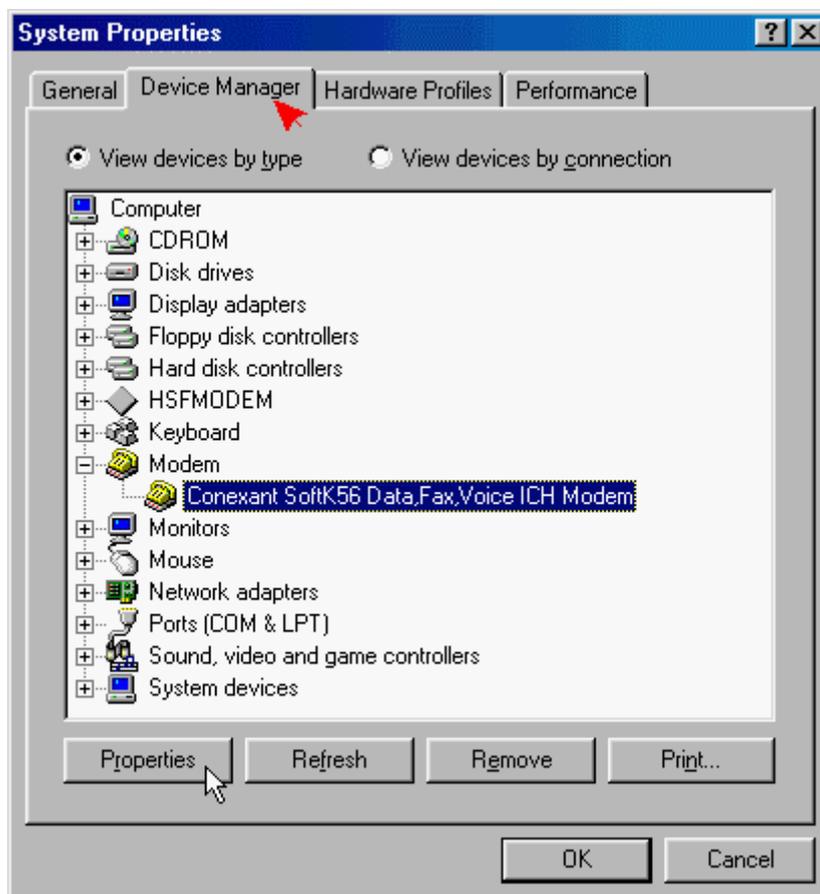
5.3 Selecting Modem Country

Windows 95/98

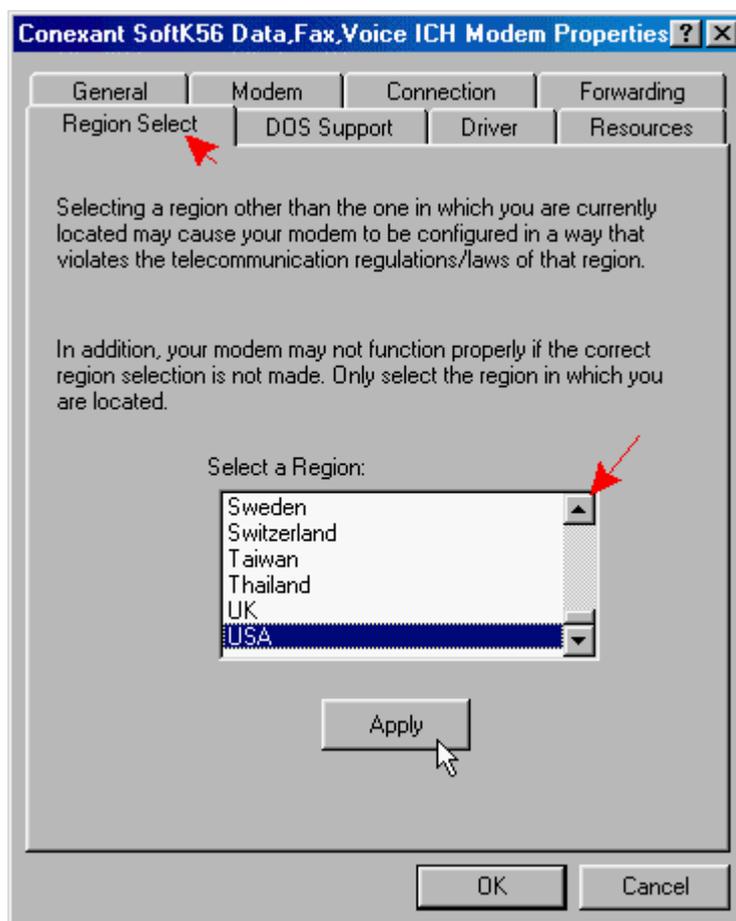
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **System** icon.



2. Click **Device Manager** tab and select **Conexant SoftK56 Data, Fax, Voice ICH Modem**, then click **Properties**.



3. Click **Region Select** tab and select country from a list, then click **Apply** to confirm this settings.

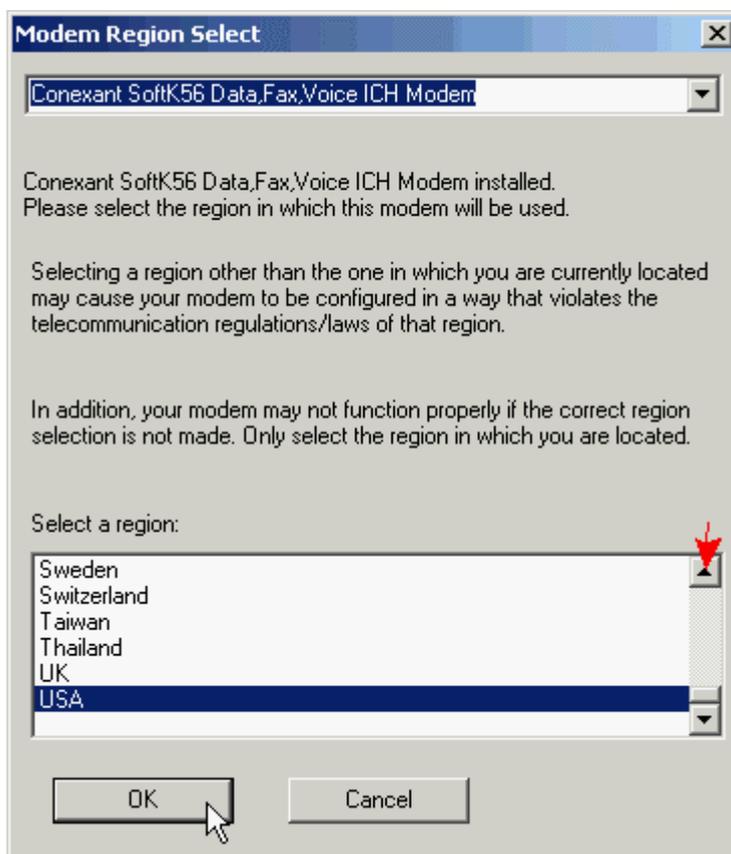


Windows 2000

1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **HSF Modem Region Select** icon.



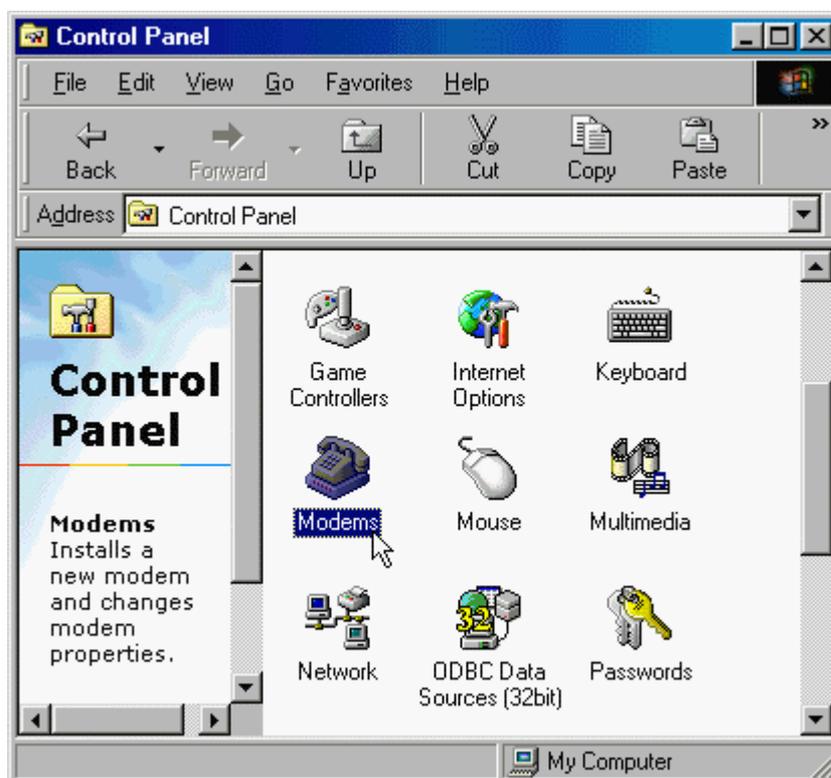
2. Select a country from a list, and then click **OK** to confirm this setting.



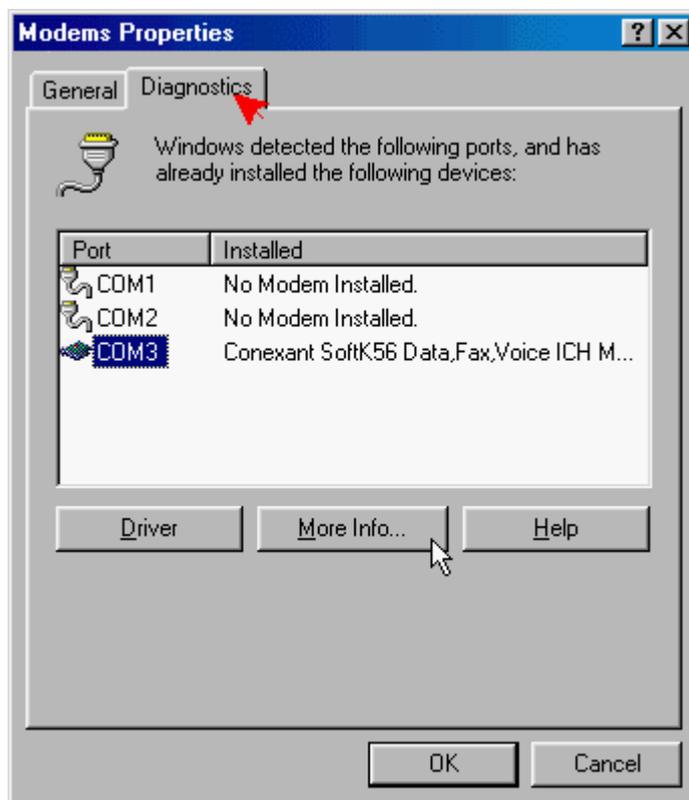
5.4 Diagnostics

Windows 95/98

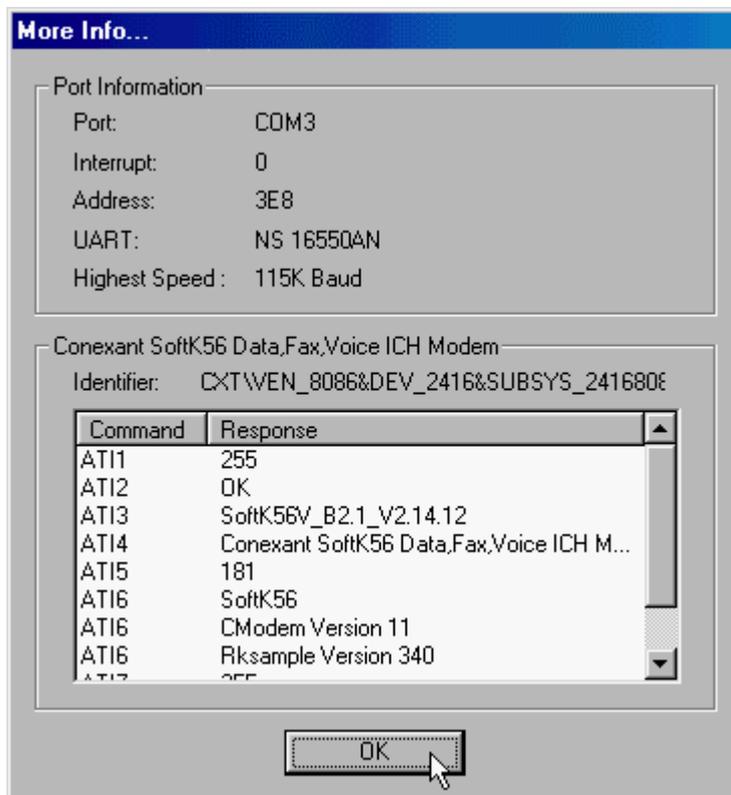
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel** then double-click on the **Modems** icon.



2. Click on the **Diagnostics** tab. Select the **COM Port** that modem is setting and click on the **More Info...** button to start the test.



3. If your modem is responding to AT commands and functioning correctly, it means that your modem is working properly. Click **OK** to end this procedure.

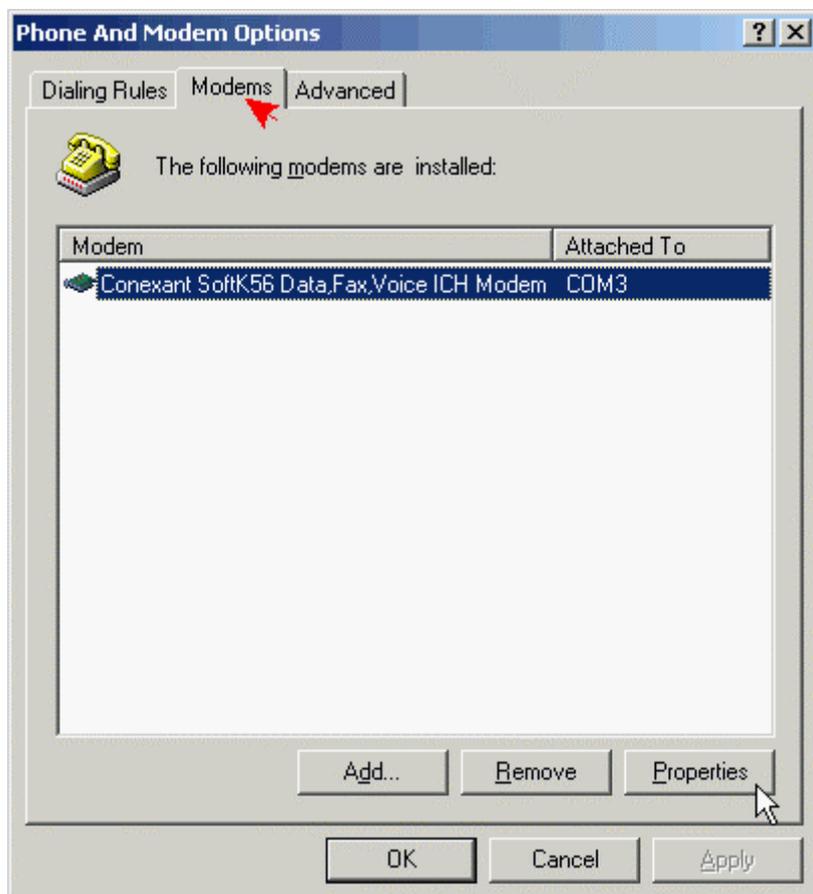


Windows 2000

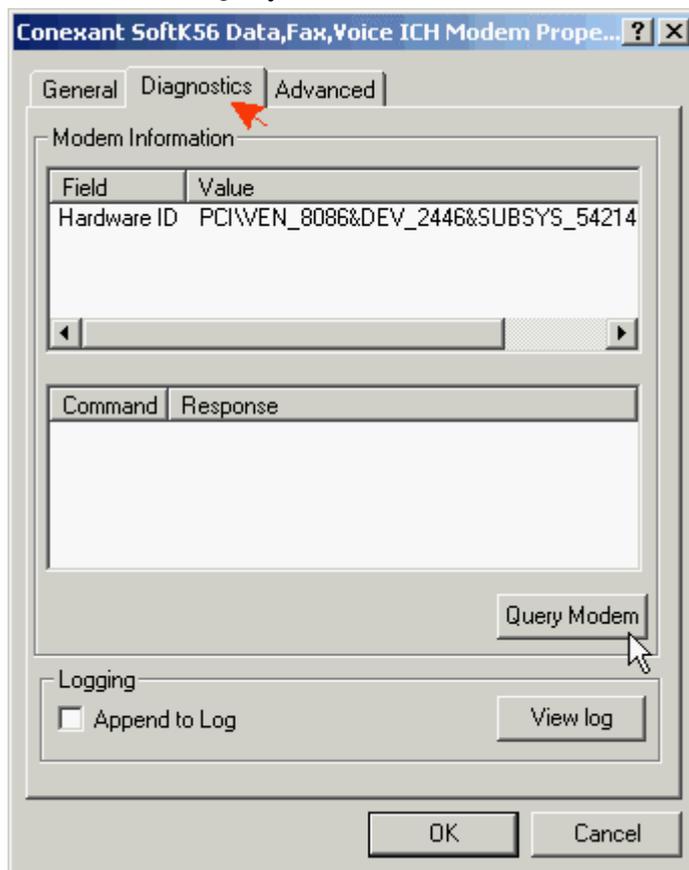
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Phone and Modem Options** icon.



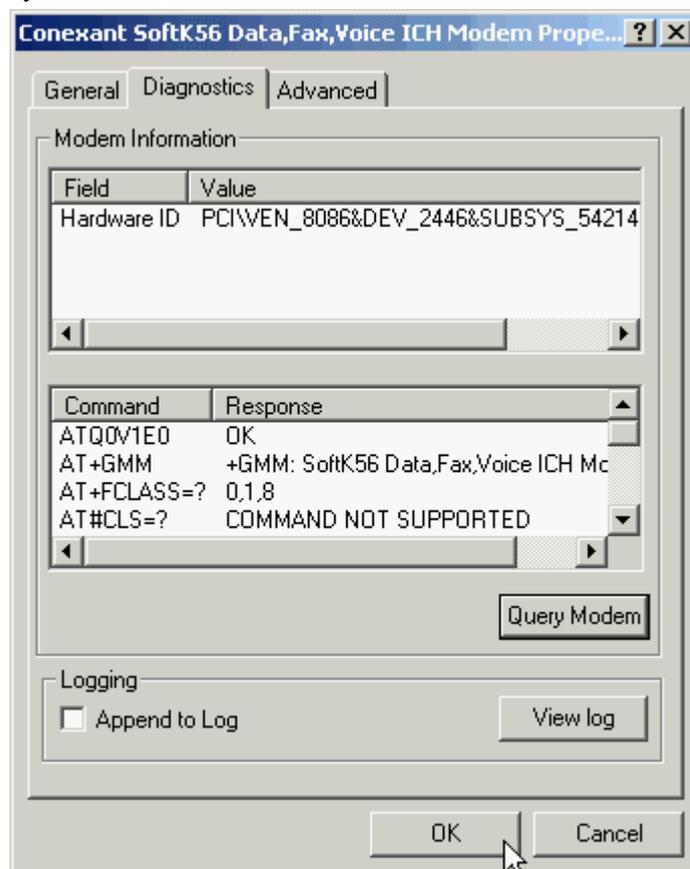
2. Click **Modems** tab and select **Conexant SoftK56 Data, Fax, Voice ICH Modem**, then click **Properties**.



3. Click **Diagnostics** tab, then click **Query Modem**.



4. If your modem is responding to AT commands and functioning correctly, it means that your modem is working properly. Click **OK**.



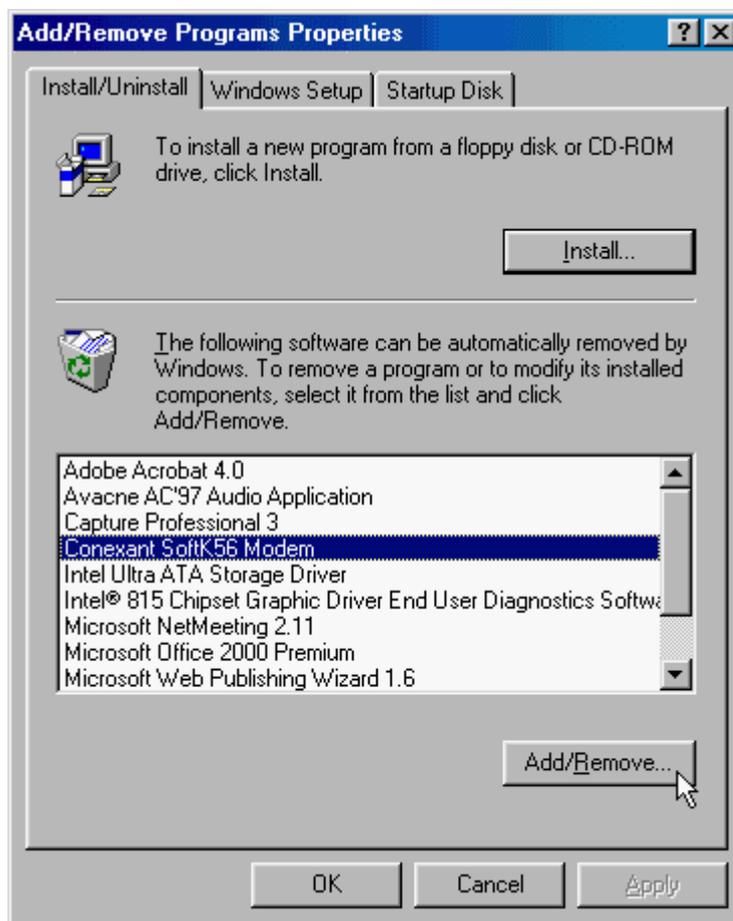
5.5 Uninstalling Procedure

Windows 95/98

1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Add/Remove Programs** icon.



2. Select **Conexant SoftK56 Modem** from the list and click **Add/Remove** to remove the modem drivers.



3. Click **Yes** to confirm the deletion.

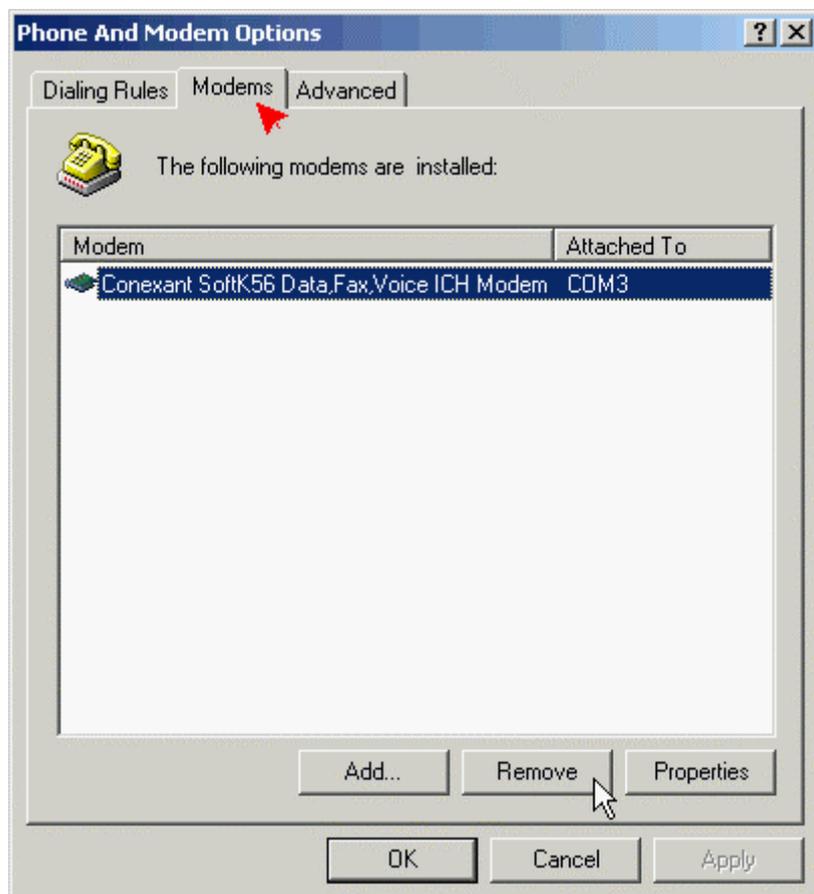


Windows 2000

1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Phone and Modem Options** icon.



2. Select **Modems** tab and select **Conexant SoftK56 Data, Fax, Voice ICH Modem**, then click **Remove**.



3. Click **Yes** to confirm the deletion.

