Mono Pack PCI WinModem

Conexant HCF 56K

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 Numb er 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 temporally. 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 lass 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 determine by tuning the equipment off and on, the user is suggested to try to correct the interferenceby 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 TELECOMMUNICATIOS 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:

Command	Default	Permissible Range
ATA	-	Do not use
ATB	B0	Do not set to B1
AT&G	&G0	&G2
AT&P	&P0	&P1
ATSn	see table below	
S register	Default	Permissible Range
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.

CONTENTS

Chapter 1 Introduction

1.1 Introduction

Thank you for selecting the internal modem. The *Mono Pack HCF WinModem* is the second generation of *WinModem* (Controlless Modem). It provides the modem function under Windows GUI interface which also the DOS box supplied by Windows. All of the above advances come from the special design of Windows control function, which move the dominating of control signal of modem from modem body to the Windows system. Therefore and it makes the *Mono Pack HCF WinModem* work more smoothly than traditional RS-232 Modem. If you are just working under Windows system, *Mono Pack HCF WinModem* is the best product you need to work with.

1.2 Packing

The Mono Pack WinModem series include the following accessories:

- Internal modem card
- User's manual
- Application Software (CD-ROM)
- Driver Diskette (Optional)
- Phone Cord

1.3 Features

- WinModem (controlless)
- ITU 56K V.90 Standard
- PCI V2.1 compliant
- Windows 95/98/ME/2000, NT4.0 compatible
- Software upgradable

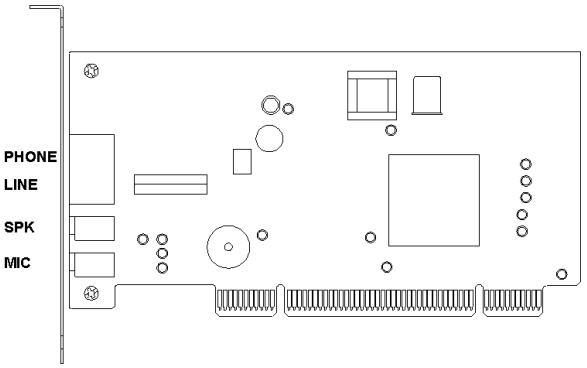
Chapter 2 Specifications

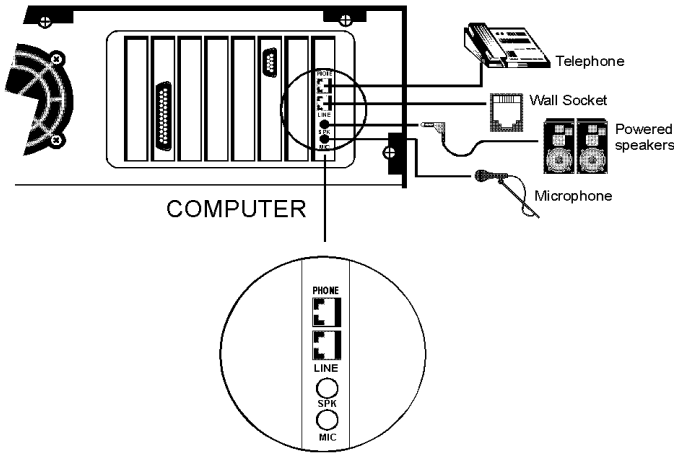
Specifications:

Line data rate	56000,54000,52000,50000,48000,46000,44000,42000, 40000,38000,36000,34000,33600,31200,28800,26400, 24000,19200,16800,14400,12000,9600,7200,4800,2400 ,1200,600,300
Modem protocol	ITU-T V.90/K56flex/ITU-T V.34bis/V.34/V.32bis/V.32/V.22bis/V.22/V.21/V.23 Bell 212A/103,V.80,V8/V.8bis
Chip Set	Conexant RH56D/SP-PCI
Interface	PCI BUS
Fax Compatibility	14.4k bps Send/Receiver G3 compatible
Error Correction	MNP2-4,V.42
Data Compression	MNP 5, V.42bis
Max. DTE data rate	115200bps
PnP	Build in
Modem operation	Dial up
Speaker phone	Full duplex speaker phone
Audio Monitoring	Mini-speaker and Programming Volume control
Line interface	RJ-11 Line/Phone
Software Compatibility	AT command set Compatible
System Requirement	Pentium CPU 133+, 16M RAM+, L2 cache 256K
System compatibility	OS Windows 95/98/ME/NT4.0/2000

Chapter 3 Hardware Installation

1. Remove the computer's case.
2. Insert the modem card into a spare PCI expansion slot.
3. Close the case.
4. Unplug the telephone from the wall socket, then plug the telephone into the socket on the back of the modem marked PHONE.
5. Plug the phone cord supplied into the socket on the back of the modem marked LINE.
6. Plug the other end of the cord into the wall socket.
7. Proceed to Software installation.



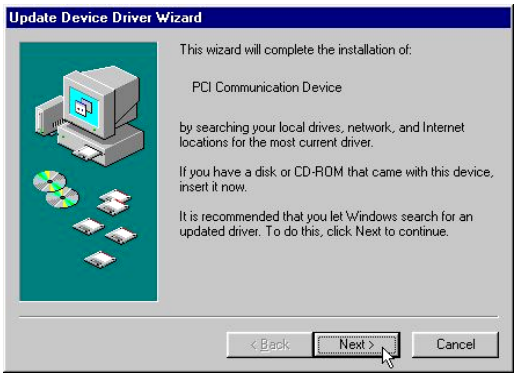


Chapter 4 Software Installation

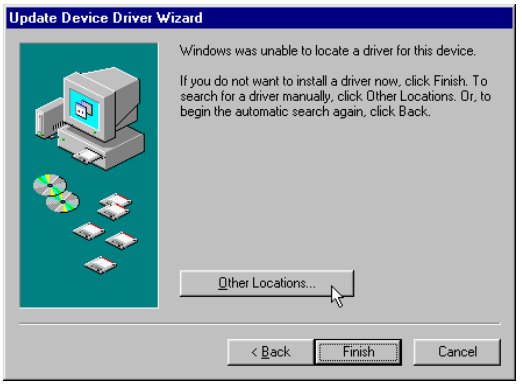
Power on your computer and modem then start Windows 95/98//ME//NT4.0/2000. Windows 95/98/ME/2000 will detect the modem automatically.

4.1 Windows 95 B(OSR2)

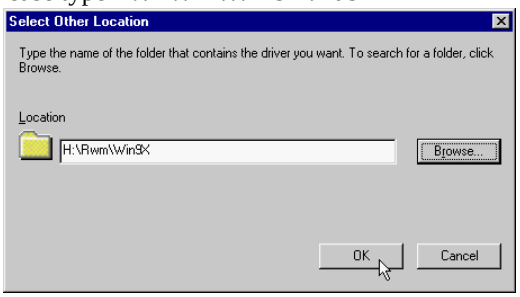
1. The message of **PCI Communication Device** will appear. However, it may vary with the type of the mother board. Then insert the driver CD supplied and click **Next**.



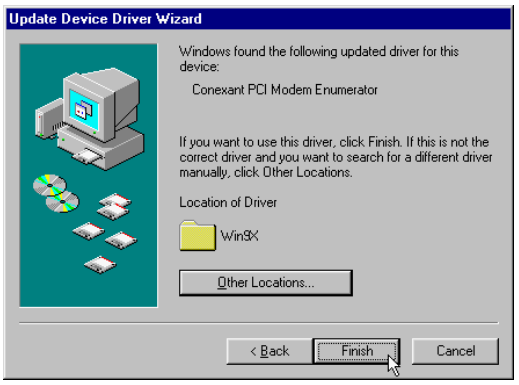
2. Click **Other Locations…**to find the modem driver.



3. Please type **H:\Rwm\Win9X** or use **Browse** to find the location of the modem driver(H is the letter of CD-ROM drive) and click **OK.** If your country is Australia, please type **H:\RWM\Win9X\Aus**

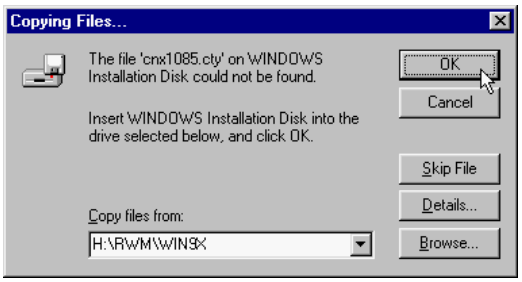


4. Click **Finish** to continue.



5. Click **OK**.

6. Please type **H:\RWM\Win9X** or use **Browse** to find the location of the modem driver. Then click **OK** to finish the installation. If your country is Australia, please type **H:\RWM\Win9X\Aus**.



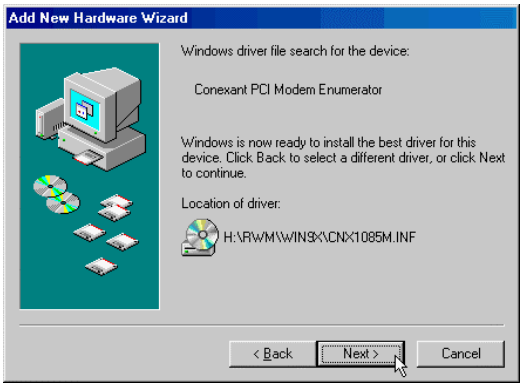
4.2 Windows 98

1. The message of **PCI Commucication Device** will appear. However it may vary with the type of your mother board. Then insert the driver CD supplied and click **Next**.

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

3. Select **Specify a location** and type **H:\RWM\Win9X** (H is the letter of CD-ROM drive) and click **Next**. If your country is Australia, please type **H:\RWM\Win9X\Aus**.

4. Windows will find the driver for **Conexant PCI Modem Enumerator** and click **Next**.

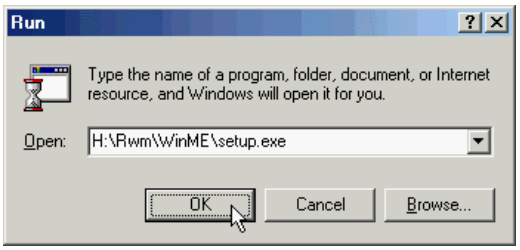


5. Click **Finish** to end this installation procedure.

4.3 Windows ME

1. The message of **PCI Commucication Device** will appear. However it may vary with the type of your mother board. Then click **Cancel** icon to stop the **Add New Hardware Wizard**. Then Windows ME will go on.

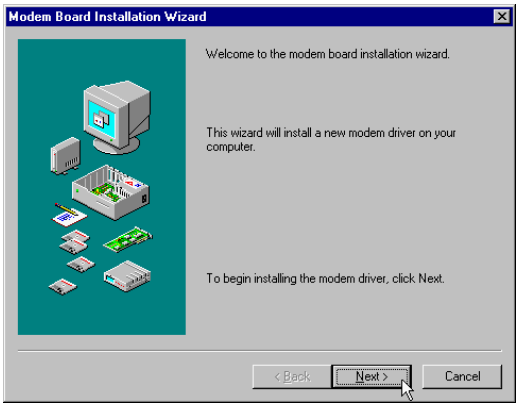
2. After Windows ME has running automatically, please move your courser as following sequence **Start\Run** and type **H:\Rwm\WinME\Setup.exe** (H is the letter of your CD-ROM drive) then click **OK**. Windows ME will install modem driver automatic.



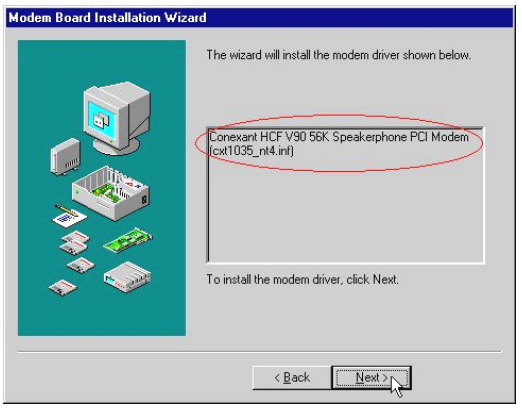
4.4 Windows NT 4.0

1. Please insert the driver CD supplied. Then click **Start \ Run** on the desktop and use **Browse** to open the file of **H:\RWM\WinNT\SETUP.EXE** (H is the letter of CD-ROM drive). If your country is Australia, please type **H:\RWM\WinNT\Aus\SETUP.EXE**.

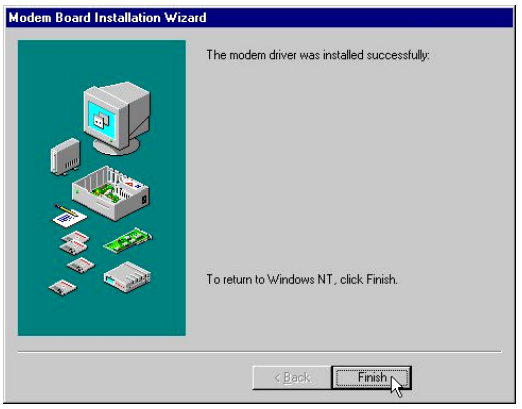
2. Click **Next**.



3. Click **Next**.

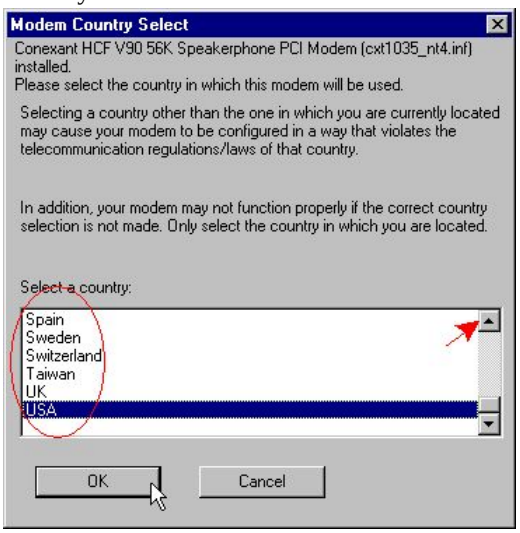


4. The message of **The modem driver was installed successfully** and clicks **Finish**.
Note: You must restart your computer to enable the modem driver.

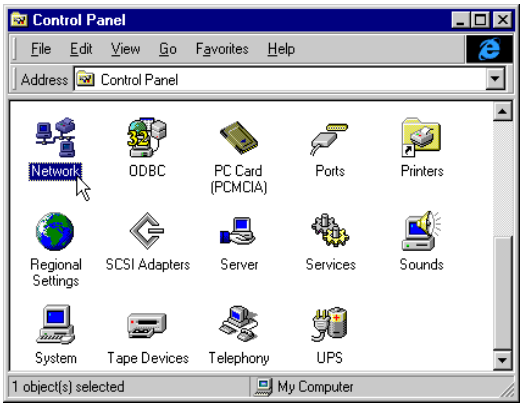


5. To select your country, please click **Start\Setting\Control Panel** on the desktop and double-click on the **HCF Modem Country Select** icon.

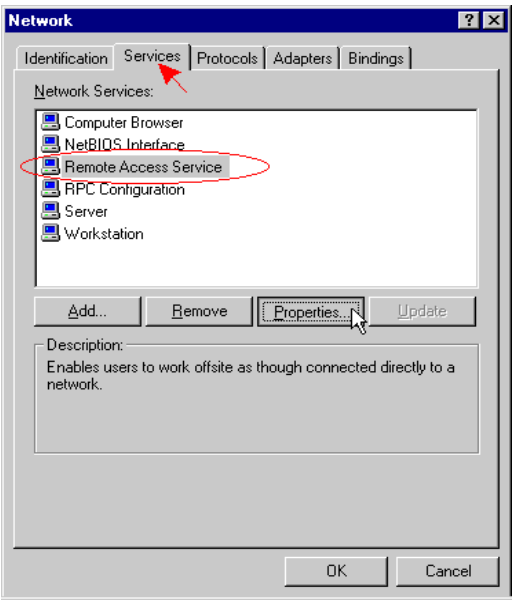
6. Select your country and click **OK.**



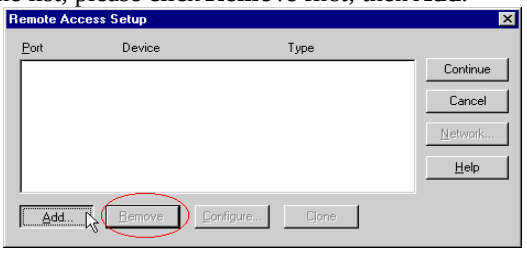
7. If you want to use **Dial-Up Networking**, please do as following. After restarting your computer, click **Start \ Settings \ Control Panel** on the desktop and double-click on the **Network** icon.



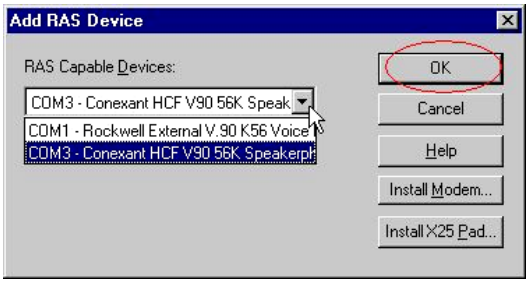
8. Click on the **Services** tab and select **Remote Access Service**, then click **Properties**.



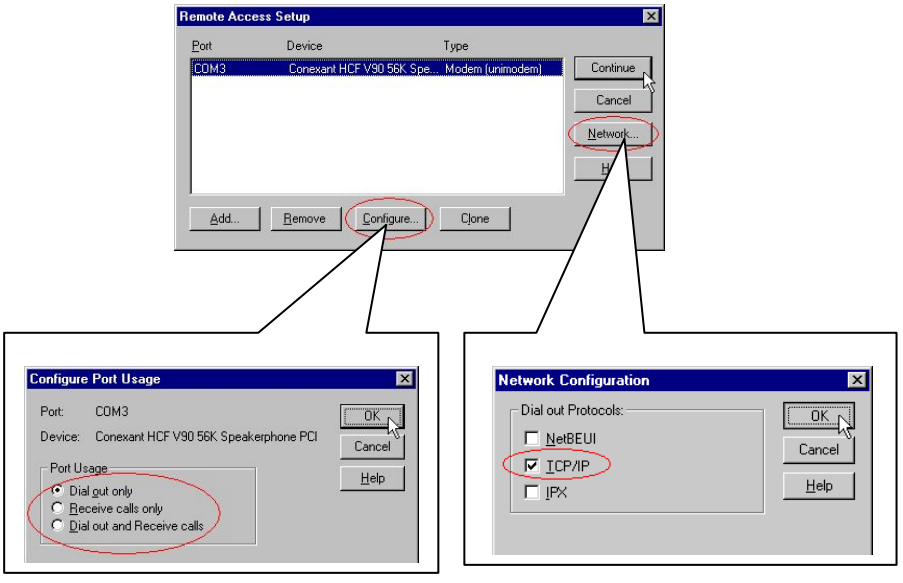
9. Click on the **Add** button to add the Conexant HCF modem. If there is any other modem in the list, please click **Remove** first, then **Add**.



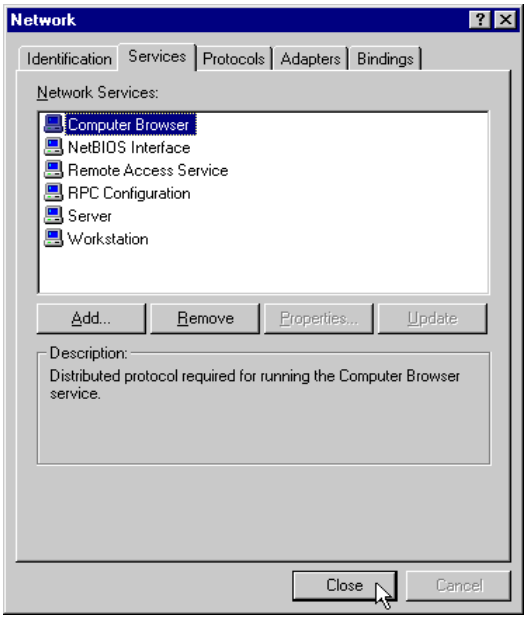
10. Select **Conexant HCF V90 56K Speakerph …**, then click **OK**.



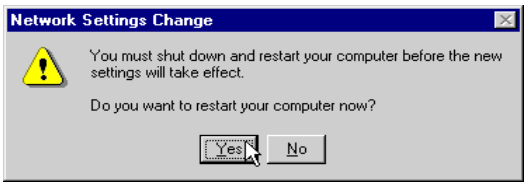
11. Check **Configure (Dial out only)** and **Network (TCP/IP)** and click **Continue**.



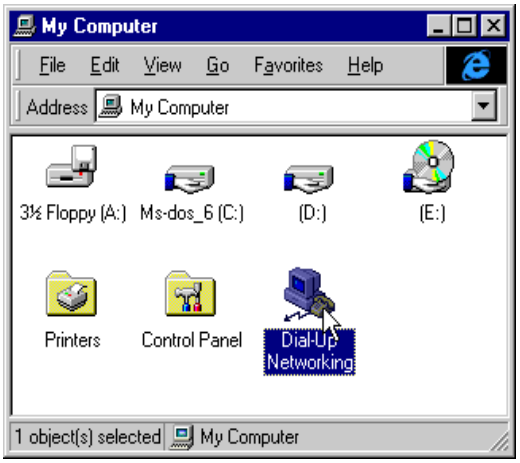
12. Click **Close**.



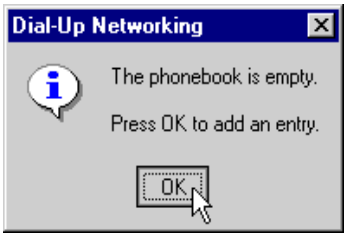
13. Click **Yes** to restart your computer.



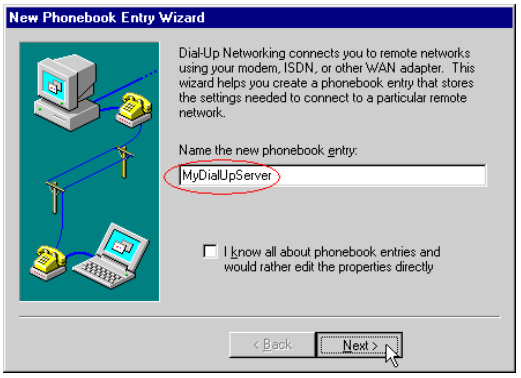
14. After restarting your computer, please double-click on the **My Computer** icon on the desktop and double-click on the **Dial-Up Networking** icon.



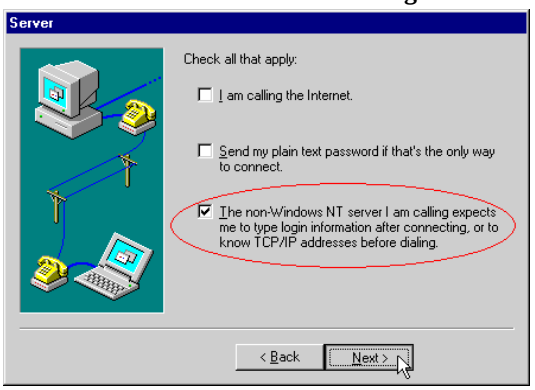
15. If your phonebook is empty, please click **OK** to add an entry.



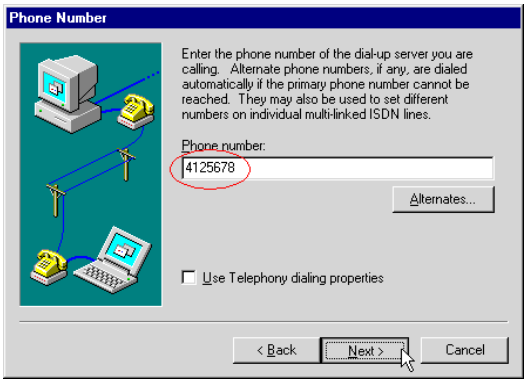
16. You may use the name provided or enter a different one, then click **Next**.



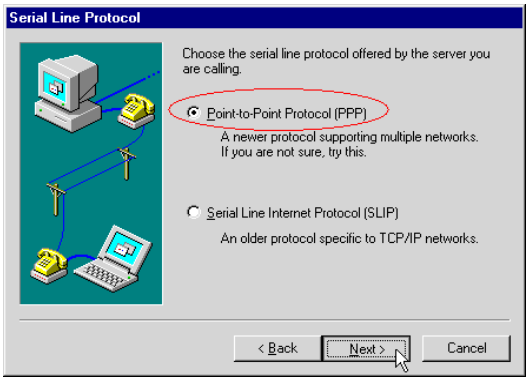
17. Select **The non-Windows NT server I am calling**…then click **Next**.



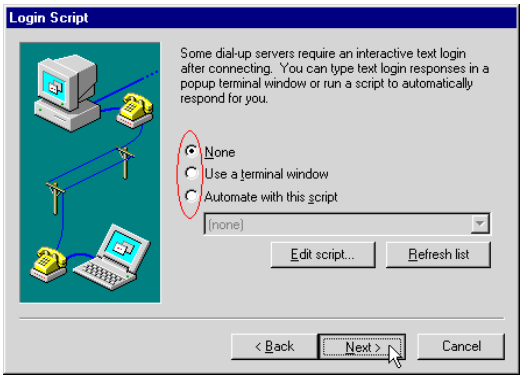
18. Enter the phone number of your local ISP and click **Next**.



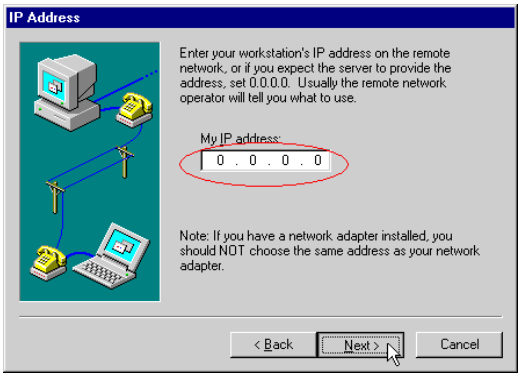
19. Select **Point-to-Point Protocol (PPP)** and click **Next**.



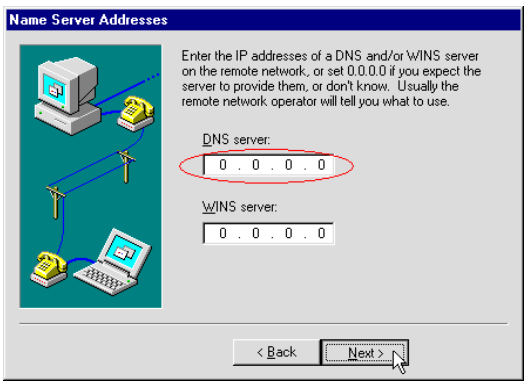
20. Consult with your local ISP for the choice and click **Next**.



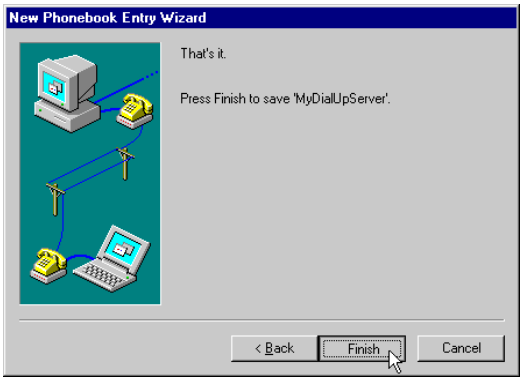
21. Enter your IP address if you have a fixed one or leave the value: **0.0.0.0**, then click **Next**.



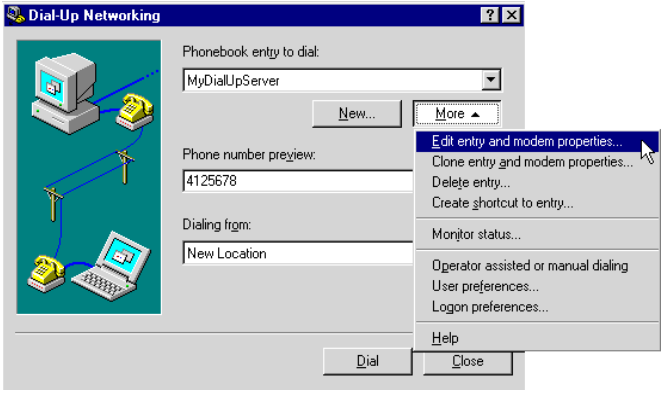
22. Enter the IP addresses of a DNS and/or WINS server for your local ISP or set 0.0.0.0 if you are not sure. Then click **Next**.



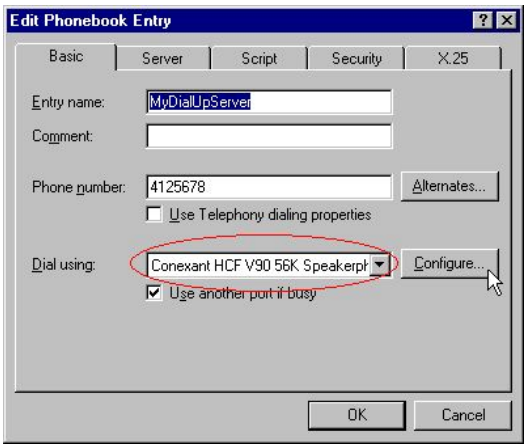
23. Click **Finish**.



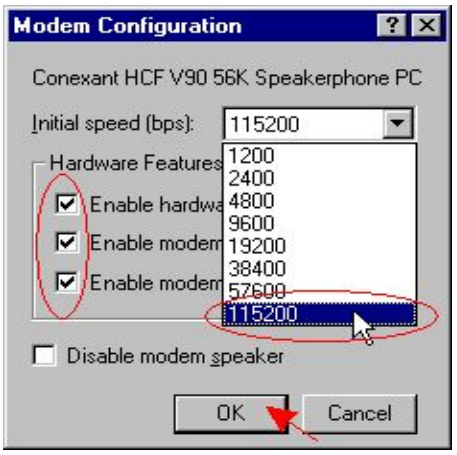
24. Click on the **More** buttons and select **Edit entry and modem properties**….



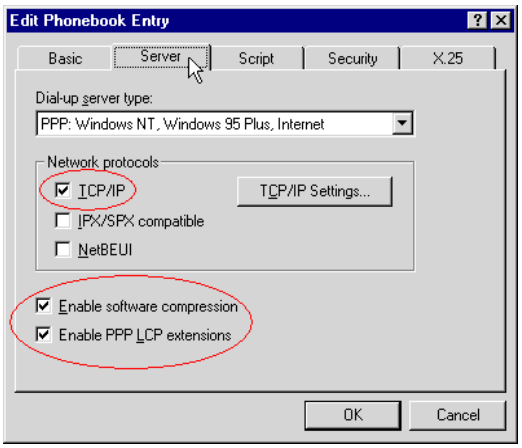
25. Select **Conexant HCF V90 56K Speakerphone PCI Modem** from **Dial using** list and click on the **Configure** button.



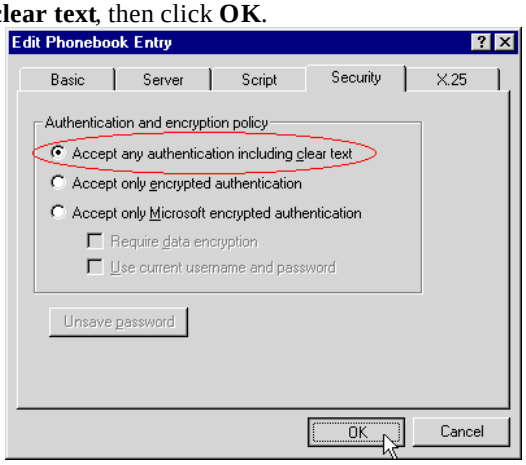
26. Enable all the **Hardware Features** and select **115200** from **Initial speed** list, then click **OK**.



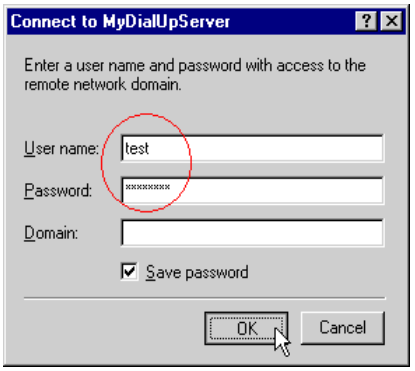
27. Click on the **Server** tab and enable three options of **TCP/IP**, **Enable software compression** and **Enable PPP LCP extensions**.



28. Click on the **Security** tab and enable the option: **Accept any authentication including clear text**, then click **OK**.



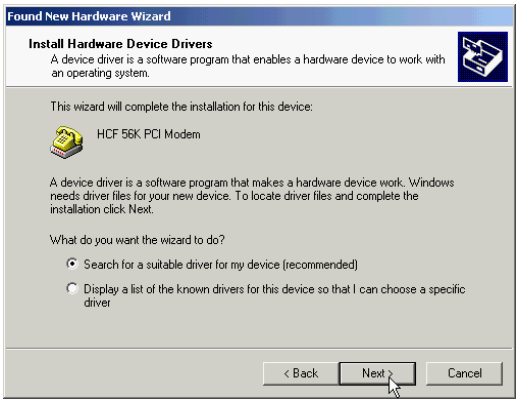
29. Enter **User name** and **Password** and click **OK**, and the modem will dial out to your ISP and get a connection.



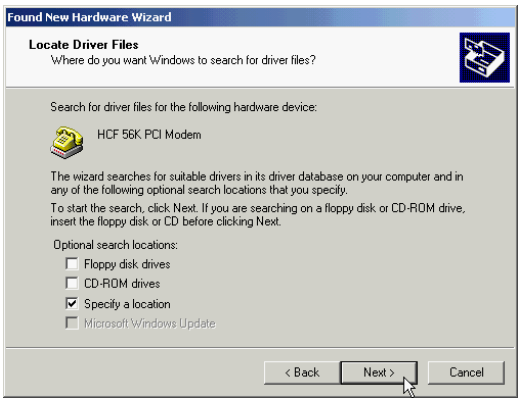
4.5 Windows 2000

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

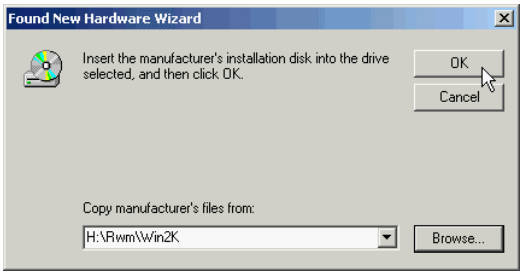
2. Select **Search for a suitable driver for my device [recommended],** and click **Next**.



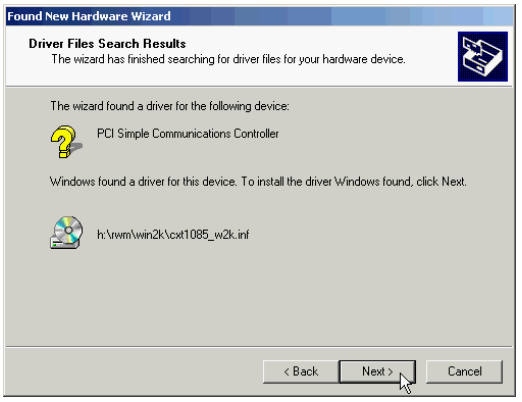
3. Select **Specify a location,** then click **Next** to continue.



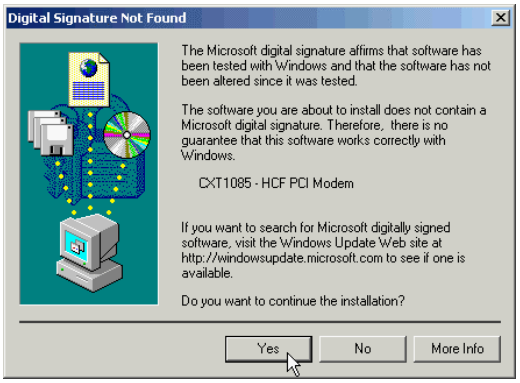
4. Please type **H:\Rwm\Win2K**(H is the letter of your CD-ROM driver), then click **OK** to continue.



5. Click **Next** to continues.



6. Click **Yes**.

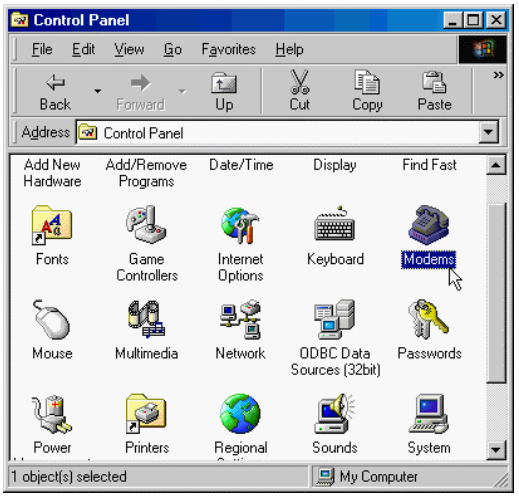


7. Click **Finish** to end procedure.

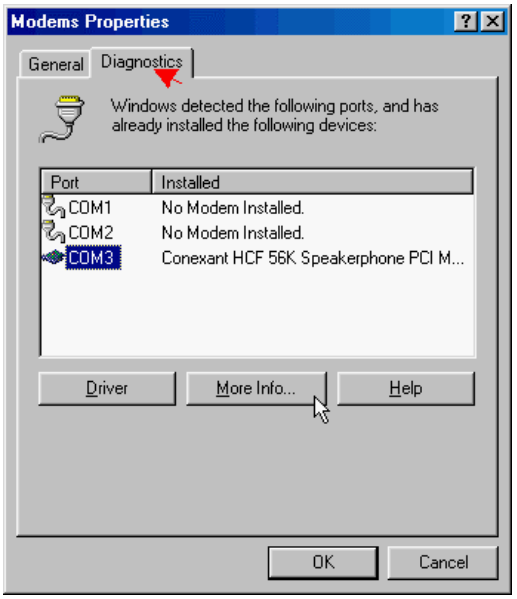
Chapter 5 Diagnostics

5.1 Windows 95/98

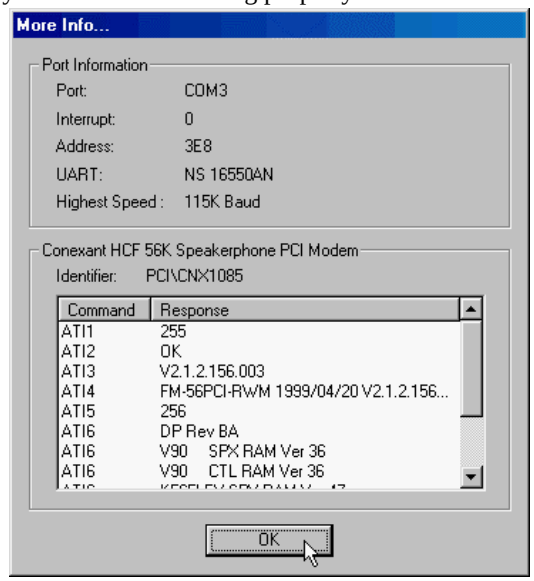
1. Move your cursor as following sequence **Start \ Settings \ Control Panel** and click **Control Panel**. Then double-click on the **Modems** icon.



2. To test the modem by clicking on the **Diagnostics** tab. Select the **COM port** that the modem is setting, and clicks **More Info…**.

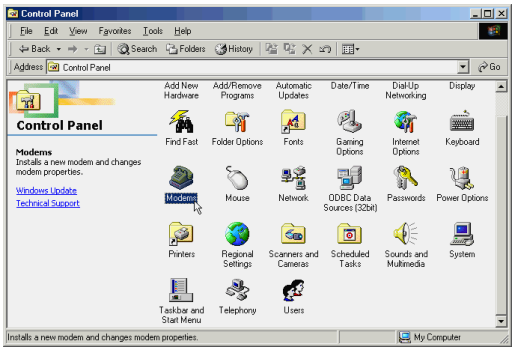


3. If your modem is responding to AT commands and functioning correctly, it means that your modem is working properly. Click **OK** to end this procedure.

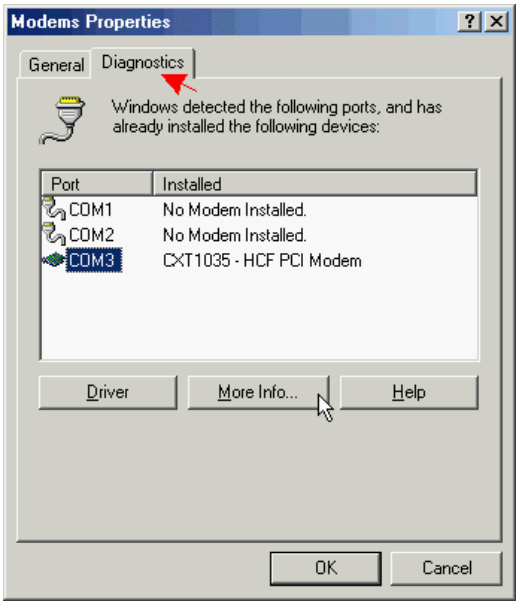


5.2 Windows ME

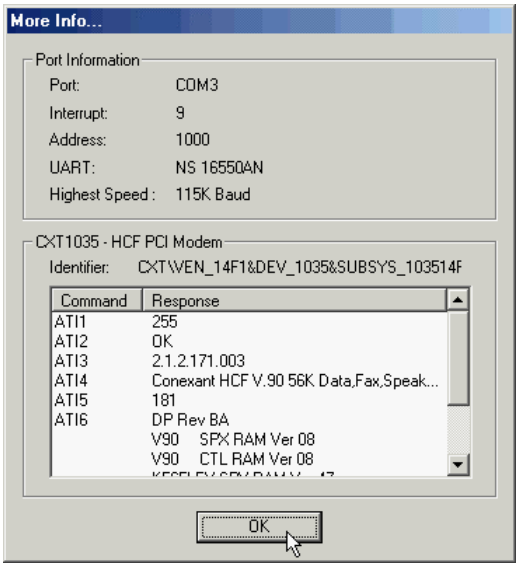
1. Move your cursor as following sequence **Start** \ **Settings** \ **Control Panel** and click **Control Panel**. Then double-click on the **Modems** icon.



2. To test the modem by clicking on the **Diagnostics** tab. Select the **COM port** that the modem is setting, and clicks **More Info…**.

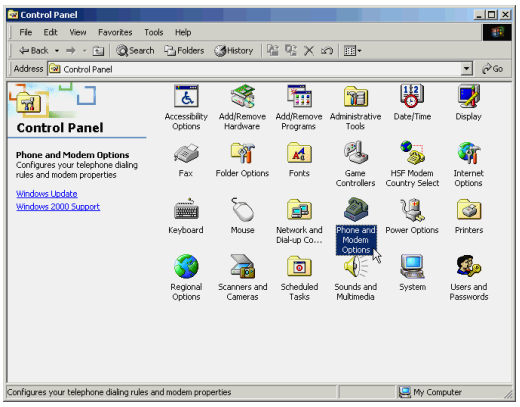


3. If your modem is responding to AT commands and functioning correctly, it means that your modem is working properly. Click **OK** to end this procedure.

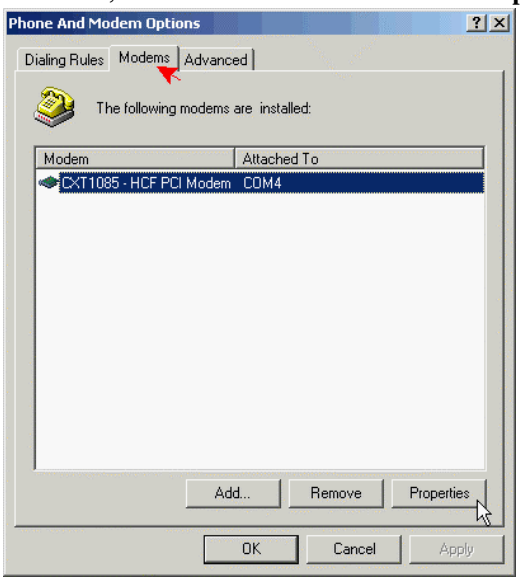


5.3 Windows 2000

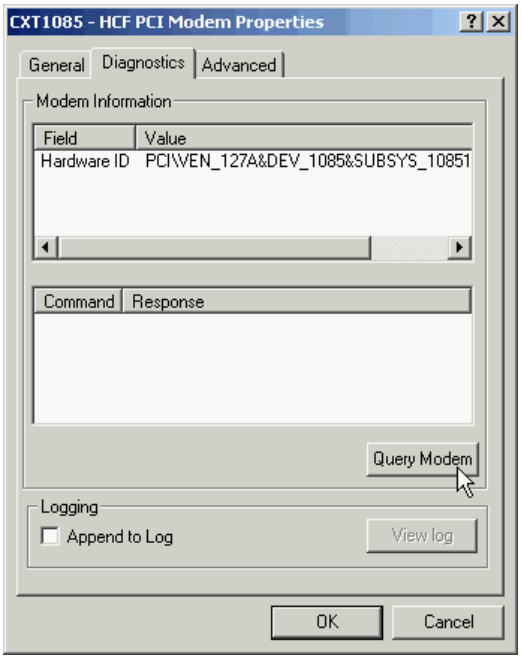
1. Move your cursor as following sequence **Start\Settings\Control Panel** and click **Control Panel**. Then double-click on the **Phone and Modem Options** icon.



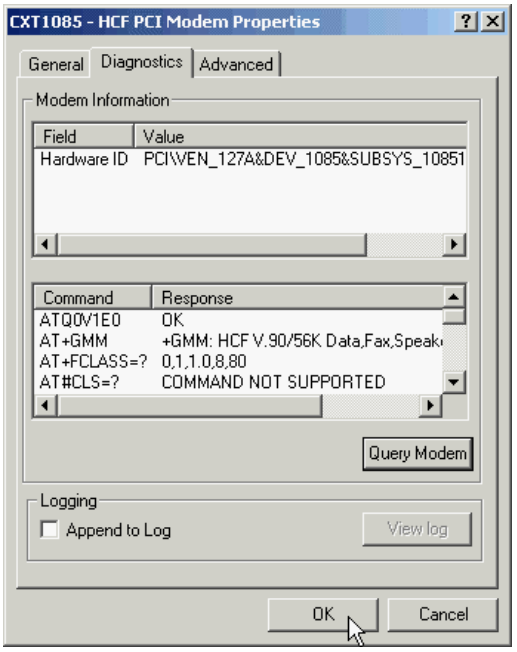
2. Click on the **Modems**, then select the modem and click **Properties**.



3. Click **Diagnostics**. To test the modem by clicking **Query Modem**.



4. 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.

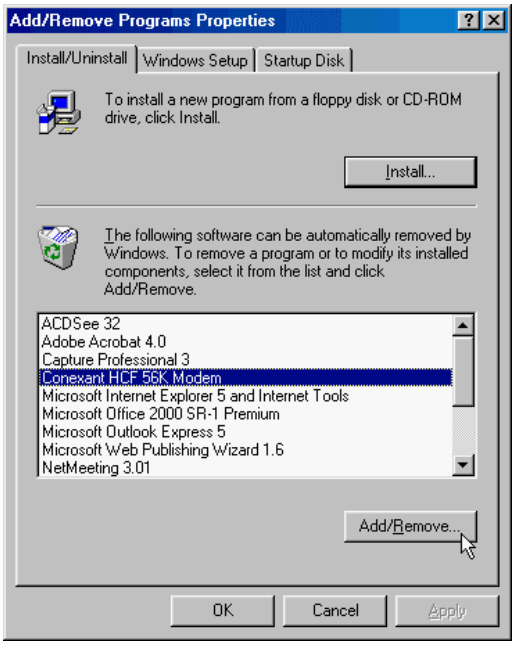


Chapter 6 Uninstalling Procedures

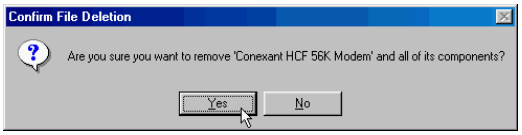
6.1 Windows 95/98

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 HCF 56K Modem** from the list and then click the **Add/Remove** button.

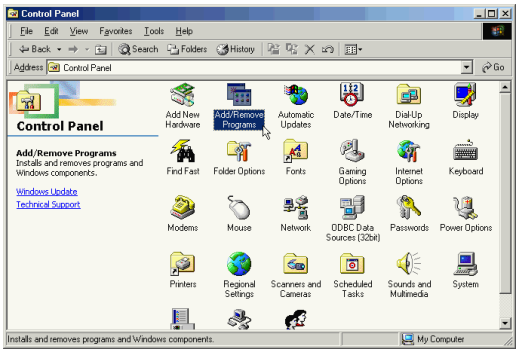


3. Click **Yes** to remove the modem then click **OK**.

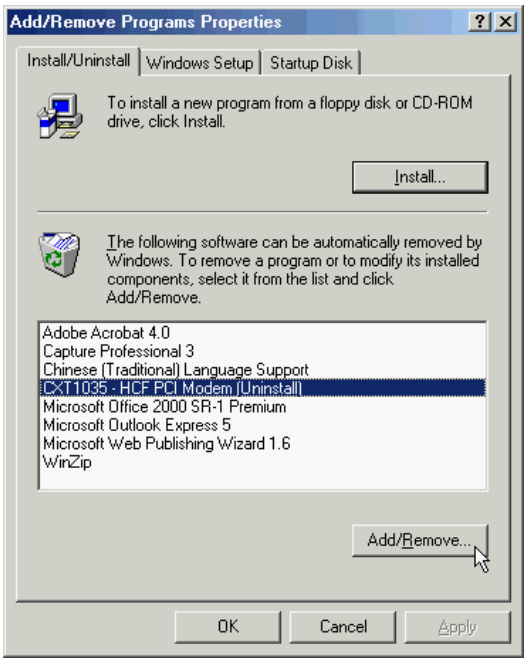


6.2 Windows ME

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

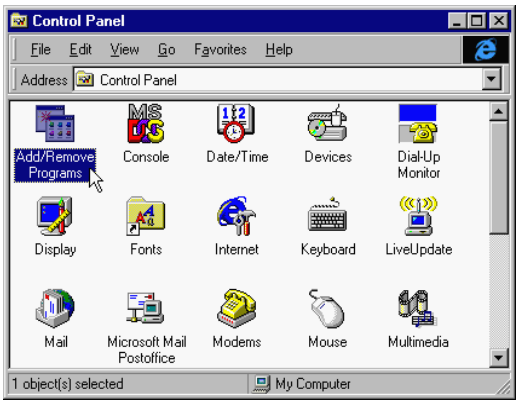


2. Select **CXT1035 - HCF PCI Modem[Uninstall]** from the list and then click the **Add/Remove** button to remove the modem driver.

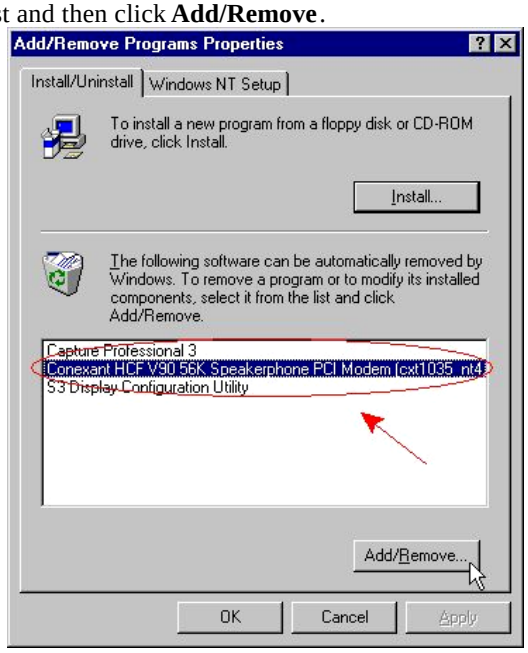


6.3 Windows NT 4.0

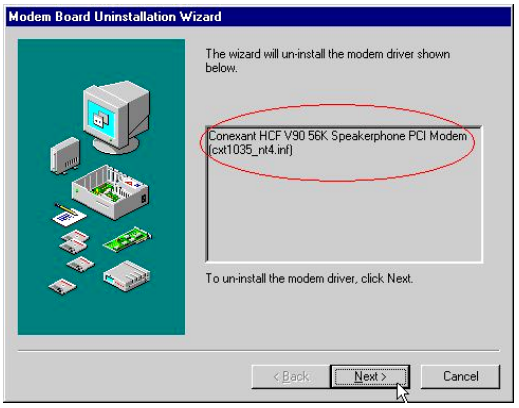
1. Move your cursor as following sequence **Start** \ **Settings** \ **Control Panel** and click **Control Panel**. Then double-click on the **Add/Remove Programs** icon.



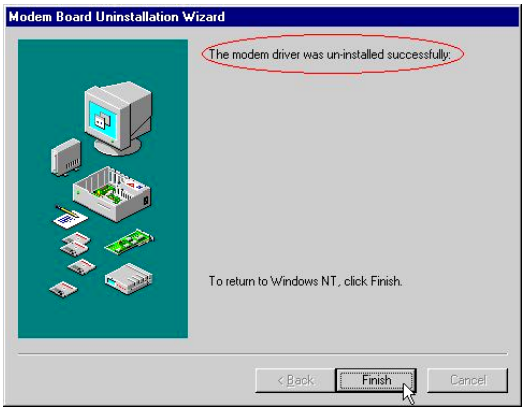
2. Select **Conexant HCF V90 56K Speakerphone PCI Modem[cxt1035_nt4…** from the list and then click **Add/Remove**.



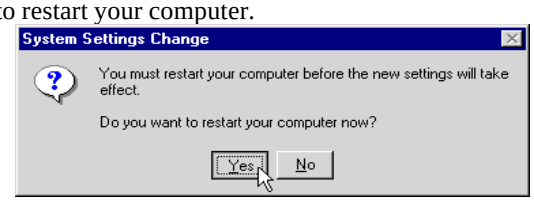
3. Click **Next**.



4. The message of **The modem driver was uninstalled successfully** will appear, and click **Finish**.



5. Click **Yes** to restart your computer.

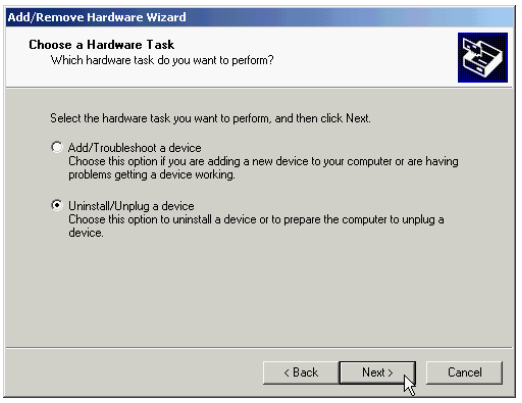


6.4 Windows 2000

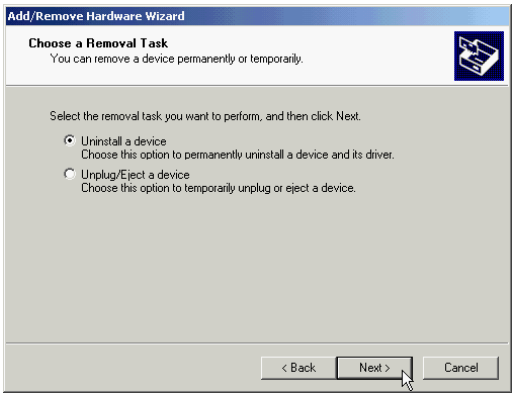
1. Move your cursor as following sequence **Start\Settings\Control Panel** and click **Control Panel**. Then double-click on the **Add/Remove Hardware** icon

2. Click **Next** to continues.

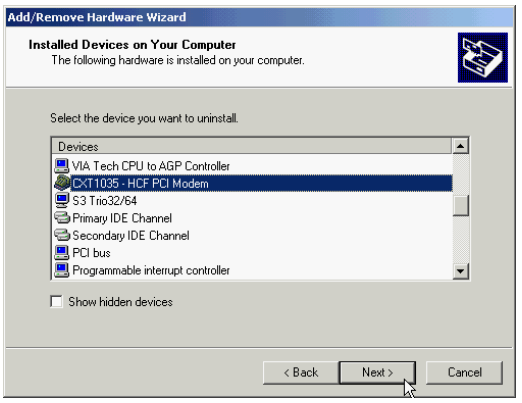
3. Select **Uninstall/Unplug a device**, then click **Next**.



4. Select **Uninstall a device…** and click **Next** to continue.

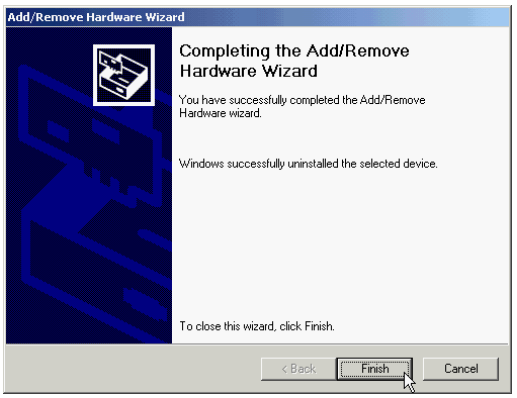


5. Select the HCF modem, then click **Next** to continue.



6. Select **YES, I want to uninstall this device**, then click **Next** to continue.

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

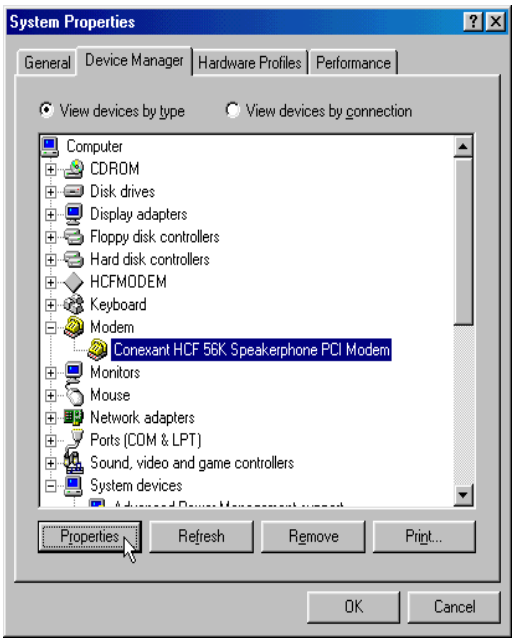


Chapter 7 Troubleshooting

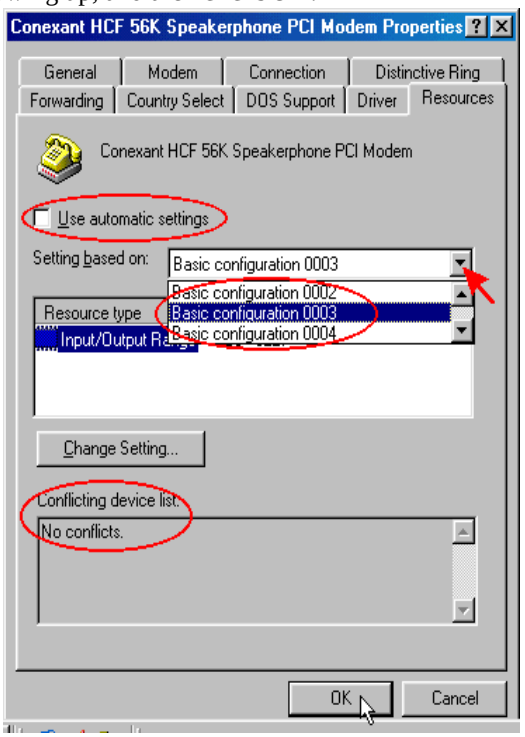
If you failed to install your modem in Windows 95/98

Make sure the COM port and IRQ Setting have been set correctly, and it doesn't conflict with another board installed in your computer.

- Please go to ***Start***, ***Settings*** and ***Control Panel***. Double click on the ***System*** icon. Click ***Device Manager*** and double click on the ***Modem*** icon. Please select ***Rockwell HCF 56K Data Fax Speakerphone PCI Modem*** and click on the ***Properties*** button.



- Click on the ***Resources*** tab, then, ***disable*** the setting of ***Use automatic settings***. Continue changing the setting of **Setting based on** from the list until **No conflicts** showing up, and then clicks ***OK***!



Modem will not dial-out

- Check your phone cable connected properly into LINE jack.
- If you use the Tone-dialing on a line, but required the Pulse-dialing method, please change the command T to P in your dial command line.

Modem will not answer an incoming call

- Check your phone cable connected properly into LINE jack.
- By connect a Telephone to the PHONE jack. The attached telephone will ring if you try calling from another telephone line.
- Configured the modem to Auto-answer modem.

No connection after modem dial out

- Remote modem may be not setting to answer mode, if you aren't hearing a high-pitch tone when remote modem answering.
- Perhaps poor-quality or noise telephone lines try another call.

Data error when modem connection

- Make sure your software data format is match to remote side (for example: 8,N, 1).

- Make sure the modem flow control method is matched to communication software.
- Try another call may be poor quality or noise telephone lines.

Fax and voice problems

- Be sure the Data Communication is installed and worked properly, otherwise check the mentioned procedure carefully and consult the Fax/Voice manual step by step.