AR-7025Um

ADSL USB Modem

User's Manual

December 2006

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1. Introduction

This USB ADSL Modem is an external ADSL modem that connecting broadband ADSL line to USB connector of PC system. The USB ADSL Modem uses advanced ADSL chipset solution with complete set of industry standard features for high-speed Internet access. The USB ADSL Modem offers easy installation and cost-effective connection for SOHO and residential users. USB bus powered modem without external power is convenient for using. This product complies with FCC part15 regulations and CE approval.

1.1 System Requirements

- Pentium II 233MHz processor or above
- At lease 32MB RAM (64MB recommended)
- 20MB available hard disk or more
- Windows 98SE/2000/ME/XP
- Available USB port
- CD-ROM drive
- ADSL service enabled on your telephone line
- Windows 98SE installation CD, which will be prompted for during installation

1.2 Package Contents

- ADSL Modem
- RJ-11 phone cable
- USB cable
- Software driver CD
- EZ setup guide

If any of above items is missing or damaged, please contact your local dealer immediately.

2. Product Features

2.1 Features and Benefits

- USB specifications v1.1 compliant
- USB bus power. Additional power adapter is unnecessary.
- Full rate operation with up to 8 Mbps downstream data rate and up to 1 Mbps upstream data rate enables high-speed Internet access.
- Friendly GUI configuration and management software
- Firmware downloadable feature provides performance and feature enhancements in the future release
- Enables end-to-end ATM support, which allows traffic management and QoS.

2.2 Applications

- High-speed Internet access
- Video-On-Demand
- Telecommuting
- E-Commerce
- On-line gaming
- Video conferencing

2.3 ADSL Compliant

- ANSI T1.413 issue 2
- ITU-T G.992.1 (G.dmt)
- ITU-T G.992.2 (G.lite)
- G.994.1 (G.hs, Multimode)

2.4 ATM and PPP Protocols

- RFC 2516 (PPP over Ethernet)
- RFC 2364 (PPP over ATM)
- RFC 1577 (Classical IP over ATM)
- Multi Protocol over AAL5 (RFC1483 / 2684)
- VC and LLC multiplexing

2.5 Encapsulation Mode

For WAN Connection

- PPP over ATM LLC (RFC 2364)
- PPP over ATM NULL (RFC 2364)
- PPP over Ethernet (RFC 2516)

For LAN Connection

- Classical IP over ATM (RFC 1577)
- IP over ATM Bridged LLC (RFC 2684)
- IP over ATM Bridged VC (RFC 2684)
- IP over ATM Routed LLC (RFC 2684)
- IP over ATM Routed VC (RFC 2684)

VPI / VCI Settings

- VPI value: 0~255
- VCI value: 32~65535

2.6 Supported OS

- Windows 98SE, ME, 2000, XP
- Mac / Linux (optional)

2.7 Interface

- One USB port compliant with USB v1.1, full speed (12Mbps)
- One RJ11 port for ADSL connection

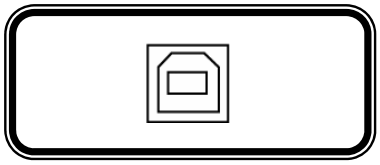
3. Hardware Indicators and Connectors

3.1 LED Descriptions

- When modem is establishing the connection, the LED will be blinking.
- When modem is connected, the LED will be on steadily.

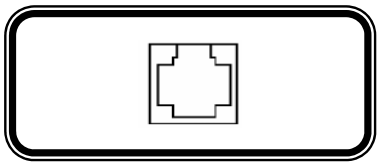
3.2 Front Panel

Connect this connector with Type-B end of USB cable.



3.3 Rear Panel

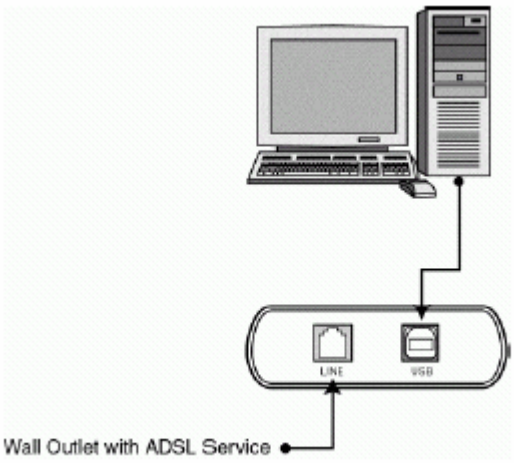
Connect this connector with RJ-11 cable.



3.4 Connect the Related Devices

1) Connect the provided RJ-11 cable into **LINE** port on the real panel of the modem and insert the other end to splitter.
2) Connect the Type-A end of USB cable to your PC.

The diagram below illustrates a connection example,



4. Hardware Installation

4.1 Before You Start…

In **MAC** operating systems, you need to install the device drivers first (see next chapter) and then perform the hardware installation steps below

4.2 Hardware Installation

Install the USB ADSL Modem by following these steps with the PC running:

1. Insert the rectangular end of a USB cable into the USB port of your PC.
2. Insert the square end of the USB cable into the USB port pf the USB ADSL Modem.

In **Windows** operating systems, the USB ADSL Modem will be detected and the "**Found New Hardware Wizard**" will be displayed on the PC's screen. Proceed with the software installation in the next section, using the operating system appropriate to you.

5. Software Installation

The software installation procedures vary depending upon the operating system of your PC. Be sure to follow the instructions provided for the operating system appropriate for you.

5.1 Before You Start…

The following information may be required for software installation. Contact your DSL service provider before proceeding with software installation.

- IP Address Settings – the software installation process allows the server to dynamically assign IP Address settings. If your application requires static setting of specific address information you will need to know:

  IP Address

  Subnet Mask (for Bridged Ethernet applications only)

  Default Gateway (for Bridged Ethernet applications only)

- Name Server Information – the software installation process allows the server to dynamically assign Name Server Address settings. If your application requires static setting of specific address information you will need to know:

  Primary DNS Address

  Secondary DNS Address

  Primary WINS Address

  Secondary WINS Address

- Type of Driver to be installed – WAN and LAN software drivers are supported.

  Note: Required if not using default value

- ATM Virtual Path ID (VPI)

  Note: Required if not using default value

- ATM Virtual Circuit ID (VCI)

  Note: Required if not using default value

- Encapsulation type

  Note: Required if not using default value

- Modulation type

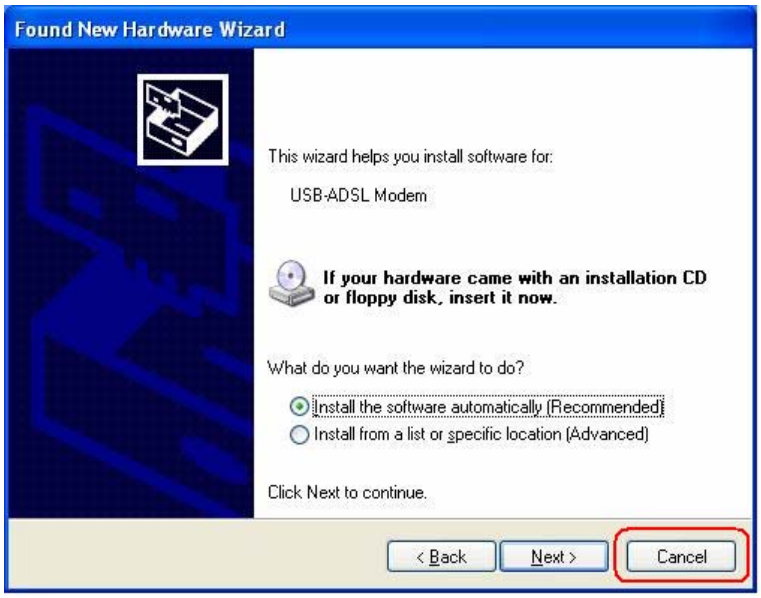
  Note: Required if not using default value

- User Name (for PPP applications only)
- Password (for PPP applications only)

5.2 Windows Installation

The software setup process for Microsoft Windows applications (XP, 2000, Me, and 98SE) is described below with operating system specific differences noted. The USB ADSL Modem should be connected to your PC prior to installing the driver software. No other Windows programs should be running on your PC during the software install process

Step 1: The Microsoft Windows **"Found New Hardware Wizard"** will be displayed, click "**Cancel**".



Step 2: Insert **"ADSL MODEM Driver CD"**, the front page of Easy Setup window will be appeared,

Install Driver: Click here to install USB ADSL modem driver.

User Manual "Conexant AccessRunner USB ADSL**":** Click here to read user's manual.

Acrobat: Click here to install Acrobat Reader.

Panda: Click here to start Anti Virus program.

Step 3: Click **"Install Driver",** and then select the country you are at,

PS. If your country is not on the list, please click **"**☞**"** to next page. Select **"Other"**. Please see page 17.

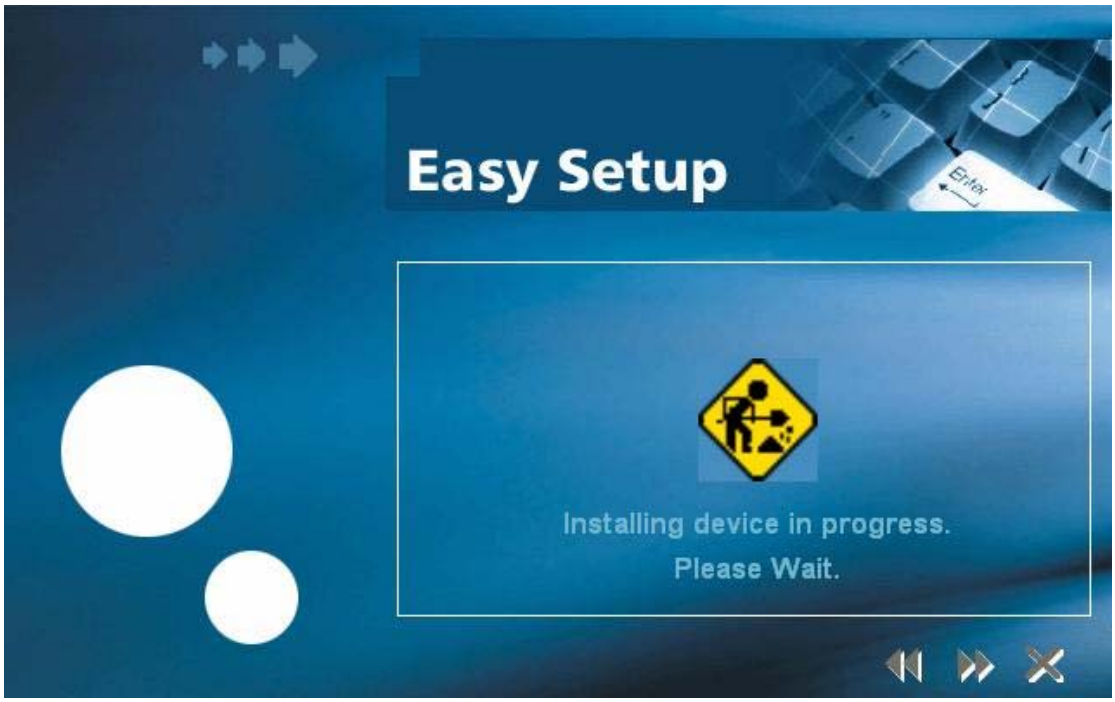
Step 4: After country selection, the window below will appear. Select the ISP, and then click **"⏩"** to next page.

Step 5: Enter your account **"User Name, Password and Password Confirm"** then click **"⏩"** to next page,

Step 6: Confirm modem settings and click **"⏩"** to next page,

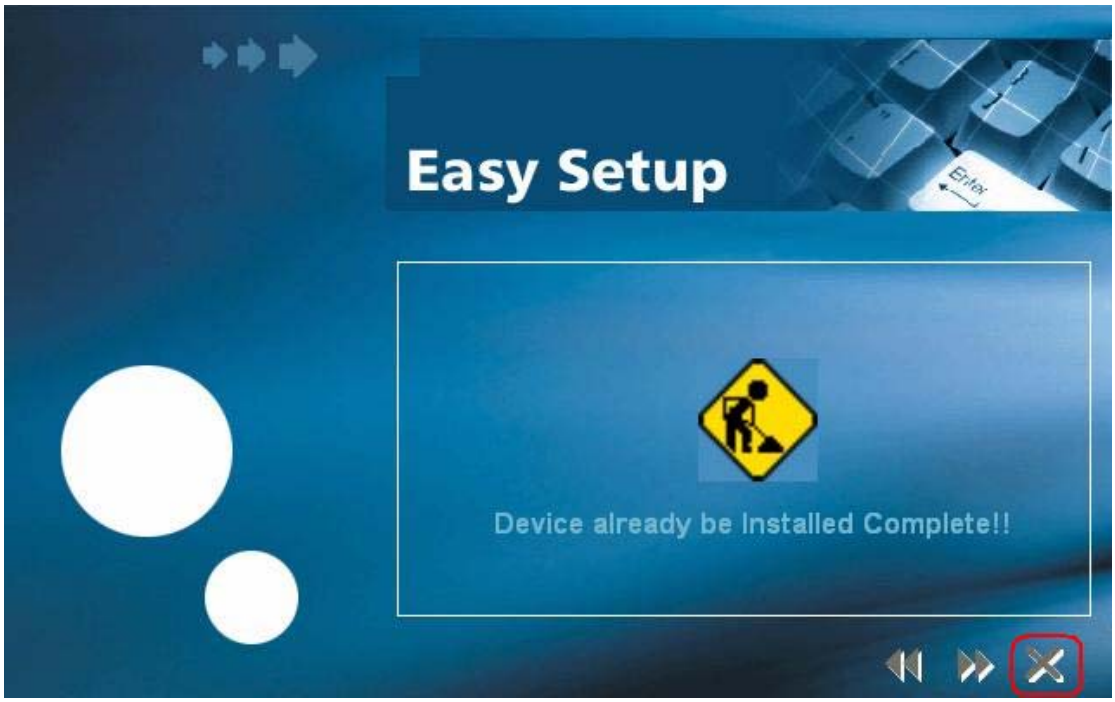
Step 7: Software kit searches available USB modem,

Step 8: Please wait for while during the device driver is installing.



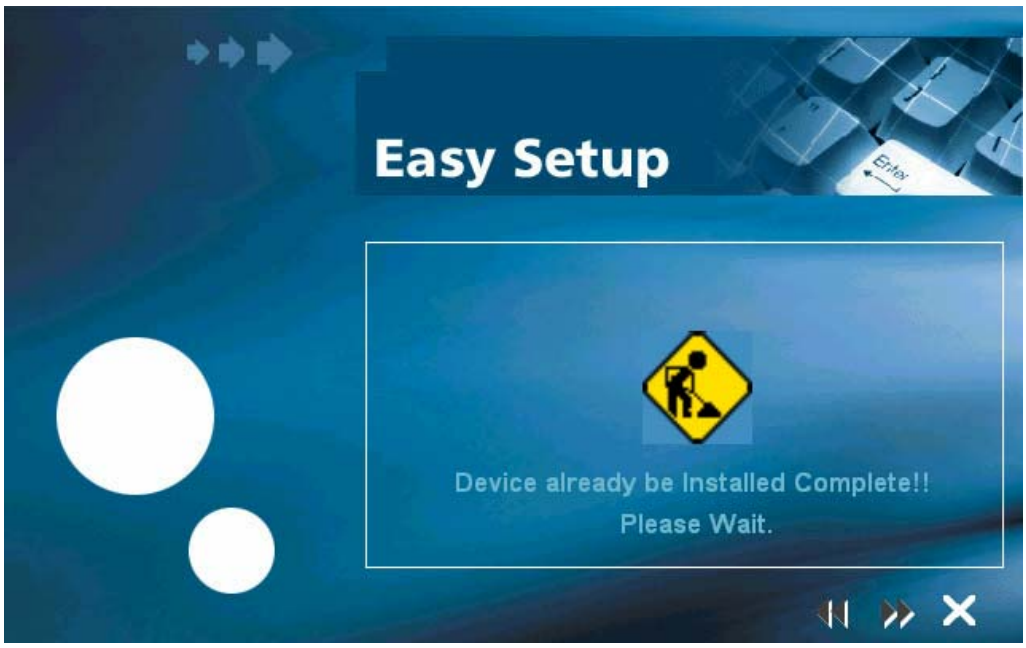
[For Windows XP and 2000]

Step 9: After the device driver is installed completed, you will see the window as below, click **"X"** to exit the wizard.

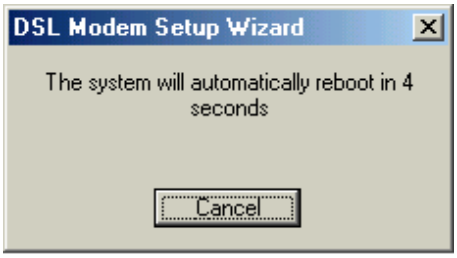


[For Windows ME]

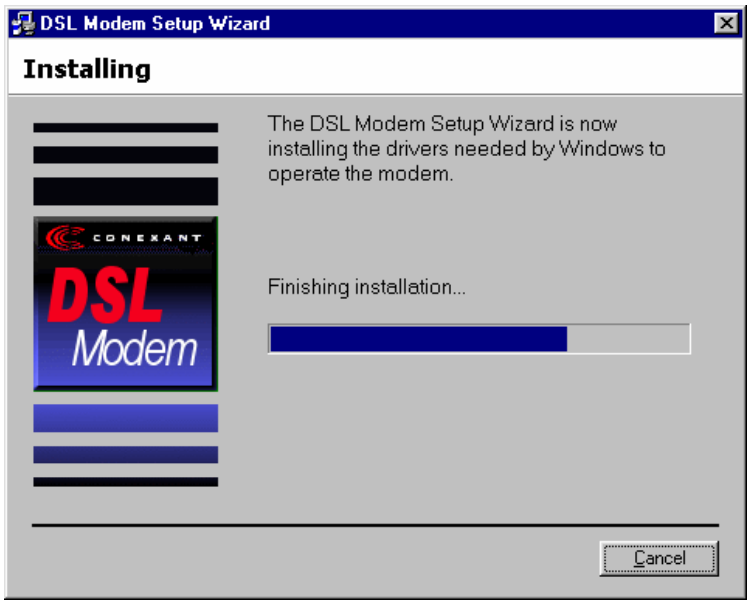
Step 9: After the device driver is installed completed, you will see the window as below.



Step 10: Follow the previous appeared window, DSL Modem Setup Wizard will appear and remind you the system will automatically reboot within 10 seconds.

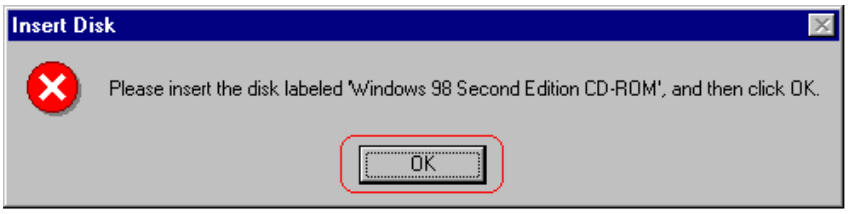


Step 11: After reboot your system, please wait for DSL Modem Setup wizard complete the device configuration process; then, your ADSL USB Modem will be installed properly.

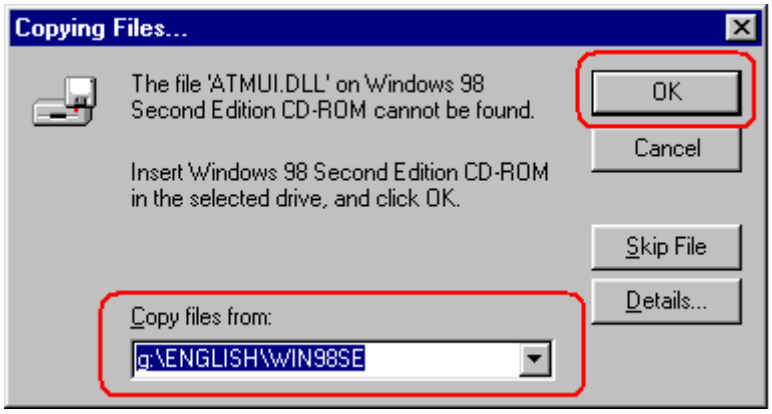


[For Windows 98SE]

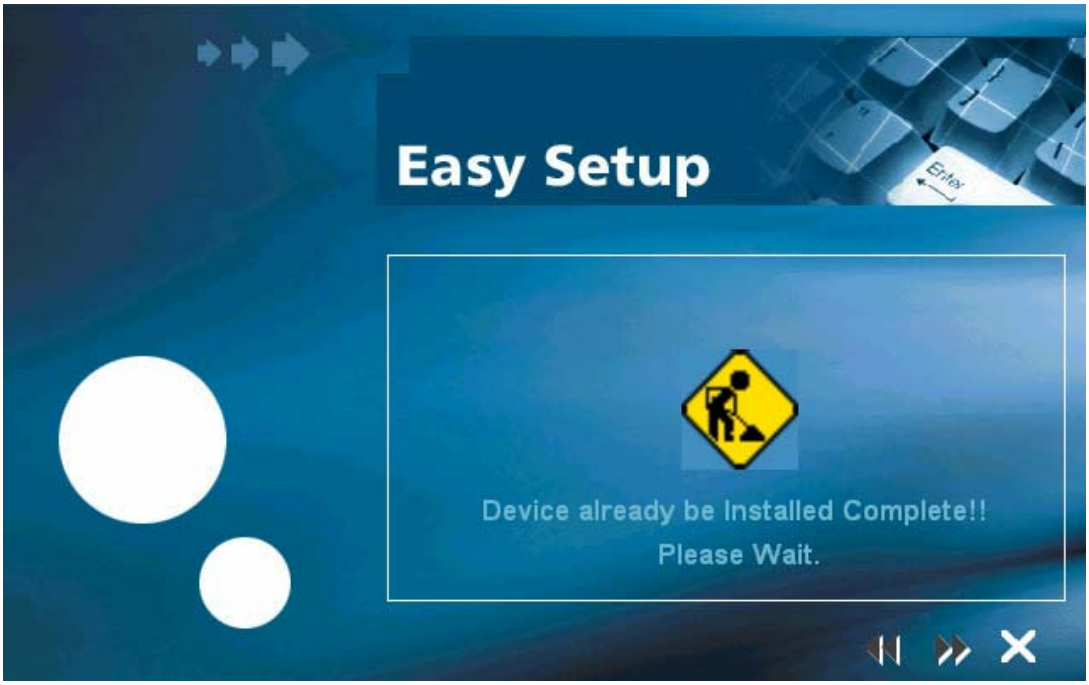
Step 9: For **Widows 98SE**, during the installation process, the system will ask you to insert Windows 98SE installation CD, please insert the CD and click **"OK".**



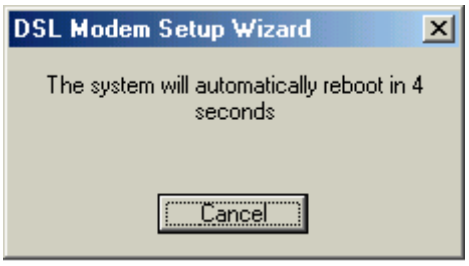
Step 10: Insert Windows 98SE CD-ROM in the selected driver and click **OK**.



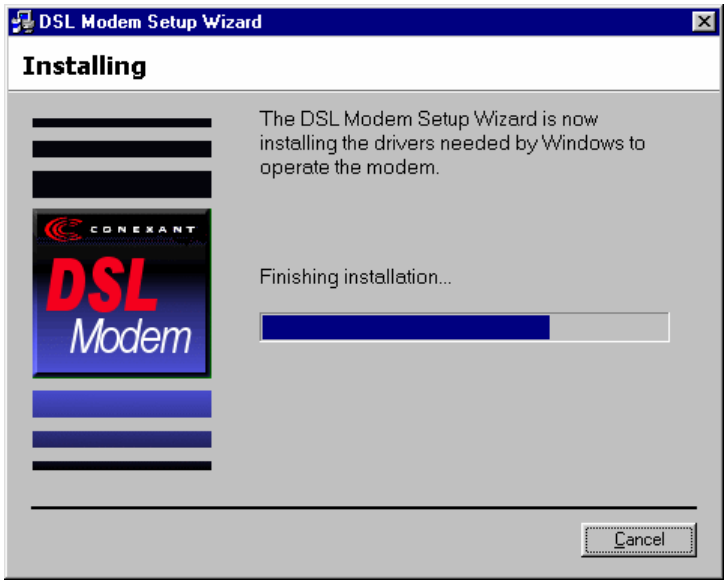
Step 11: After the device driver is installed completely, you will see the window as below.



Step 12: Follow the previous appeared window, DSL Modem Setup Wizard will appear and remind you the system will automatically reboot within 10 seconds.



Step 13: After system reboot, please wait for DSL Modem Setup wizard complete the device configuration process and then your ADSL USB Modem will be installed properly.



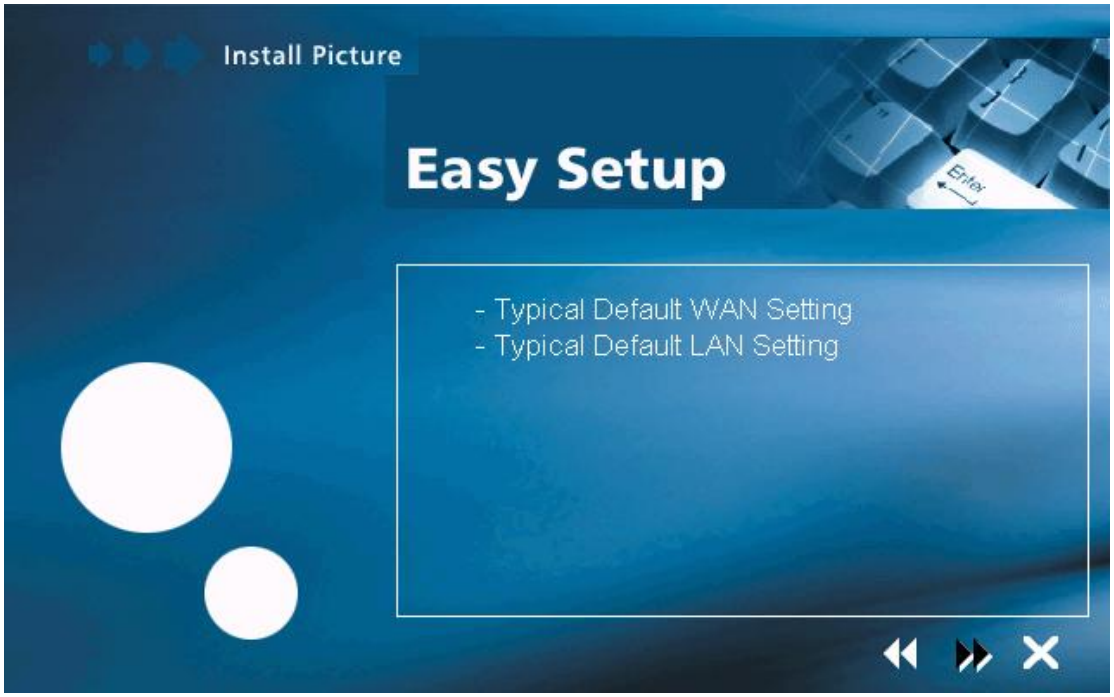
Note: If your country ISP Setting is not in the ISP list,

If your country is not on the list, please click **"⇧"** to next page and select **"Other"**,

a) After you select **"Other"**, the window below will appear,

PS. Please refer to the following table before you select **"Typical Default WAN Setting"** or **"Typical Default LAN Setting"**.

Connection Type	Encapsulation and Multiplexing method	Network Information
WAN	PPP over ATM LLC (RFC 2364) PPP over ATM NULL (RFC 2364) PPP over Ethernet (RFC 2516)	Internet Account information: ● User name ● Password
LAN	Classical IP over ATM (RFC 1577) IP over ATM Bridged LLC (RFC 2684) IP over ATM Bridged VC (RFC 2684) IP over ATM Routed LLC (RFC 2684) IP over ATM Routed VC (RFC 2684)	TCP/IP information: ● IP address ● Subnet mask ● DNS ● Gateway



b) After connection type selection, the window below will appear, and then confirm modem settings. All settings here are default, it might not correct settings for your connection, double check settings for your ISP and go to **"Accessing Communication Settings on Windows"** for the detail settings. (See Chapter 6)

<<Attention — For Windows ME & 98SE>>

After your device driver is installed properly, the

"**Conexant Dial-up PPP Connection**" icon will be created on the desktop. Please **Do Not** change the default settings In the Phone Number section. If the setting is changed by accident, please do the following steps:

(1) Close the "**Conexant Dial-up PPP Connection**" tool first.

(2) **Remove** your ADSL USB Modem from the computer.

(3) **Plug** the ADSL USB Modem again to the computer for re-initialing.

(4) Then, the section will back to default settings.

5.3 Linux Installation

This chapter describes the Linux LAN/WAN driver for this USB ADSL modem.

This driver supports **Linux-2.6 kernels**. The Linux kernel sources can be downloaded from: http://www.kernel.org/pub/linux/kernel/v2.6/.

The installed system should already have the kernel sources installed in the /usr/src/linux or /lib/modules directory. If they are not there, try to get them off the installation disks for your distribution, or download the latest Linux-2.6 kernel, and configure and build that. One common problem while compiling modules on a new kernel is not to create link /usr/src/linux which should point to the relevant kernel source directory. On a freshly installed system this link might not be present and needs to be created before the kernel or any driver module can be compiled. There are lots of books and documents available describing how to extract, configure and build the kernel from it's sources...

The driver is compiled and tested for:

- **Fedora Core 3** : kernel 2.6.9-1.667 using gcc 3.4.2
- **SuseLinux 9.2** : kernel 2.6.8.8-24.10 using gcc 3.3.4
- **Mandrake 10.1** : kernel 2.6.8.1-12mdk using gcc 3.4.1

5.3.1 Directory Structure

The directory Structure is as follows.

```
monaco_linux
    |
    |---ModemDrv
    |
    |---gpatm
    |
    |---Gti
    |
    |---cpl
```

5.3.2 Compiling the Driver

Step 1: Run make in the folder monaco_linux/ModemDrv/src to compile the driver.

Step 2: The Makefile contains following important options:

DEBUG	- Output driver debug messages	[n]
LAN	- Create LAN interface	[y]
WAN	- Create WAN interfaces	[y]

Step 3: Compiling the Control Panel Application. The Makefile understands following

target(s).

% make - This is to create the Control panel application.

(Command to be executed from directory monaco_linux/cpl.)

5.3.3 Loading Modem Driver

The module accepts several parameters that can be set when the module is loaded.

[Syntax]

insmod ./GUModem.ko {Module Options}

(Command to be executed from directory monaco_linux/ModemDrv/src)

[Module Options]

Rfc1483Mode	default: 0	(Bridged LLC)
Rfc1483VciX	default: 85+X	(X would be 1,2,3,4)
Rfc1483VpiX	default: X	(X would be 1,2,3,4)
Rfc2364Mode	default: 0	(VC)
Rfc2364VciX	default: X	(X would be 1,2,3,4)
Rfc2364VpiX	default: 116+X	(X would be 1,2,3,4)
PVCCount	default: 4	(Maximum Ethernet interfaces)
PPPOACount	default: 4	(Maximum PPPOA Interfaces)

VPI and VCI settings to be used according to what's configured.

For example to load the module and to create 4 interfaces using different set of VCI/VPI the command would be as follows:

% insmod ./GUModem.ko Rfc1483Mode=0 Rfc1483Vci1=35 Rfc1483Vpi1=0 Rfc1483Vci2=36 Rfc1483Vpi2=1 Rfc1483Vci3=37 Rfc1483Vpi3=2 Rfc1483Vci4=38 Rfc1483Vpi4=3 PVCCount=4 Rfc2364Mode=2 Rfc2364Vpi1=0 Rfc2364Vci1=116 Rfc2364Vpi2=0 Rfc2364Vci2=117

Issuing this command will create 4 ethernet interfaces and 2 PVC for PPPOA interfaces. (Combination of Rfc1483Vpi1 and Rfc1483Vci1 will be the first interface, Rfc1483Vpi2 and Rfc1483Vci2 will be 2nd interface and so on.)

The details of various options used in command above is as below

1). **PVCCount** - This indicates the number of PVCs user wants to configure for ethernet interfaces. Maximum value for this variable in this release is 4 and hence can have any walue between 1 and 4, any value above 4 and below 1 is invalid and driver loading will fail.

2). **PPPOACount** - This indicates the number of PVCs user wants to configure for

PPPOA interfaces. Maximum value for this variable in this release is 4 and hence can have any walue between 1 and 4, any value above 4 and below 1 is invalid and driver loading will fail.

3). **Rfc1483Vpi1, Rfc1483Vpi2, Rfc1483Vpi3, Rfc1483Vpi4** -- These are 4 different values of the VPIs that user wants to configure.

4). **Rfc1483Vci1, Rfc1483Vci2, Rfc1483Vci3, Rfc1483Vci4** -- These are 4 different values of the VCIs that user wants to configure.

5). **Rfc1483Mode** defines the mode for which the PVC is operating. In this release this value of Rfc1483Mode remains same for all the PVCs which are being created. Thus all VCs using rfc1483 encapsulation will be created using same encapsulation type.

6). **Rfc2364Vpi1, Rfc2364Vpi2** -- These are different values of the VPIs that user wants to configure for PPP interfaces.

7). **Rfc2364Vci1, Rfc2364Vci2** -- These are different values of the VCIs that user wants to configure for PPP interfaces corresponding to above mentioned VPIs.

Note: Please note that the VPIs/VCIs of the PVCs should not be conflicting with each other else the driver loading will fail.

5.3.4 Verification of driver loading successfully

To determine if the driver has loaded:

% dmesg (or file /var/log/messages)

gp: USB Modem Driver Build

To determine if driver is in data mode.

% dmesg (or file /var/log/messages)

gp: Link established (8000/892)

^^^^ ^^^

^ ^

^ Upstream rate

Downstream rate

Alternatively the control panel application can also be used to get Modem Status as given below.

% gsi_cfg eth2 –s

(The ethernet device depends on what has been configured on the system)

(Command to be executed from monaco_linux/cpl)

6. Customizing Communication Settings

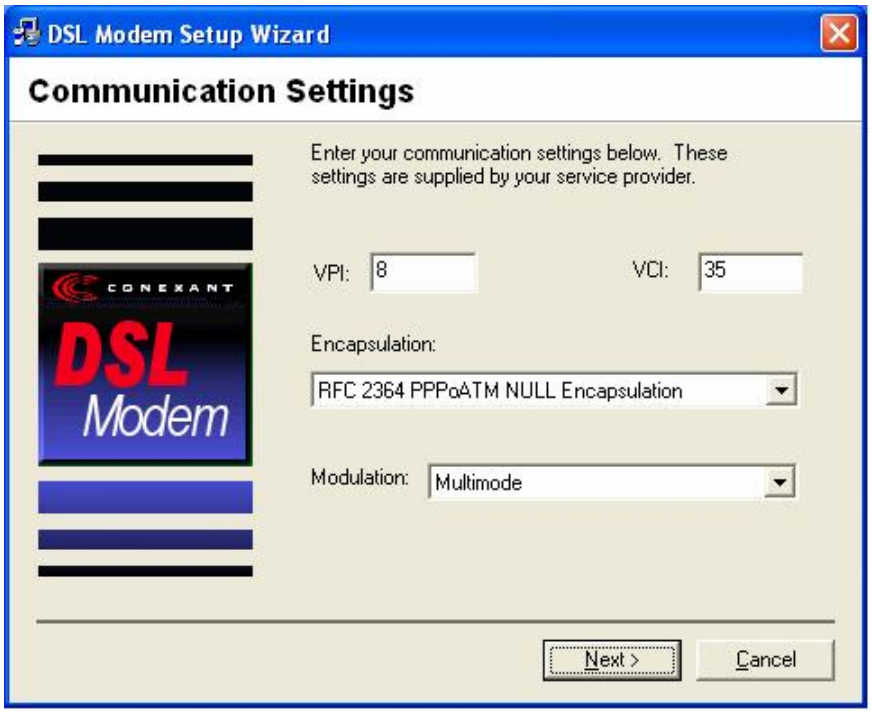
6.1 Accessing Communication Settings on Windows

Once the USB ADSL Modem and software have been installed, the communication settings may be easily updated by performing the following steps:

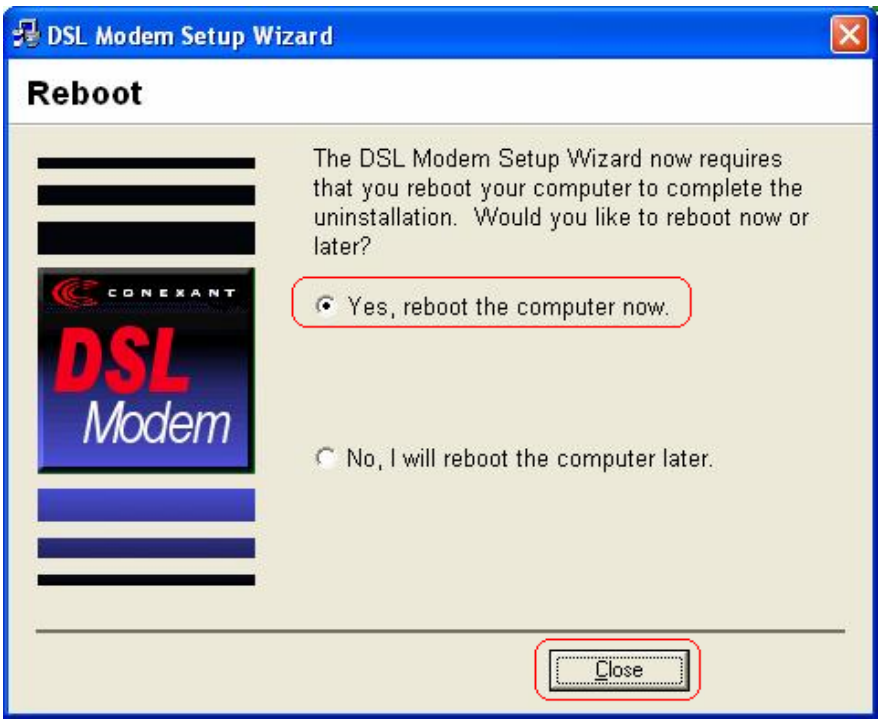
Step 1: From your PC desktop, click **Start** → **Program** → **Conexant DSL Modem** → **Configure**.

Step 2: The **"Communication Settings"** Window will be displayed.

Make the necessary changes to the VPI, VCI, Encapsulation type and/or Modulation type and click **Next>**.



Step 3: The system must be rebooted to have the new settings take effect, therefore the **"Reboot"** window will appear. Remove all disks from their drives, select **Yes, reboot the computer now**, and click **Close** to reboot.



7. The DSL Status Application

The USB ADSL Status Application program provides a quick and easy way to check the performance of the modem and the ADSL connection in Windows operating systems. When open, the monitor window updates every 2 seconds.

7.1 Windows DSL Status Application

1. There are 3 methods to access the DSL Status Application:

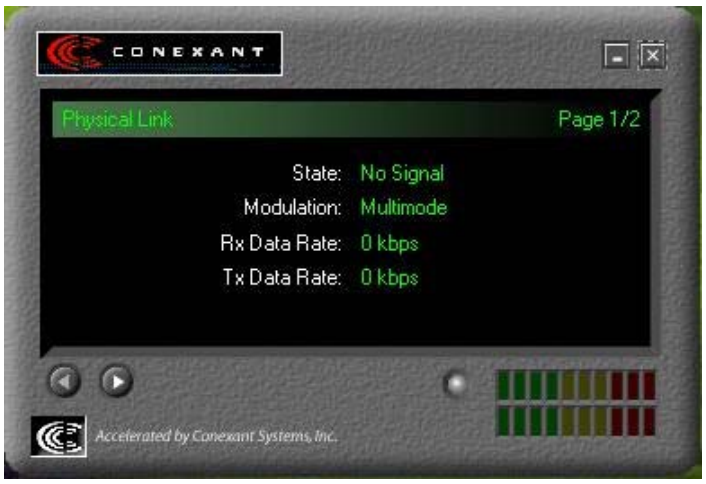
- From the **Start → Programs → Conexant DSL Modem → DSL Status.**

- Form the PC desktop, double click the **DSL Modem** icon in the system tray.

- From the PC desktop, double click the **DSL Modem** icon.

Note: To access the DSL Status Application, the device driver must be running. Also, make sure the USB cable is plugged into the modem.

2. The DSL Status Application allows you to review the current status of this ADSL Modem and connection. The green indicator for **LINK STATUS** signifies that a connection has been made. This indicator blinks while a connection is being established.



3. The system information can be displayed by clicking on the arrow button **.**

This screen displays the release number of the **Package Version**, **DSL Modem driver version**, **Control Panel Version** and the **Firmware version** you are currently using.

8. Software Uninstall

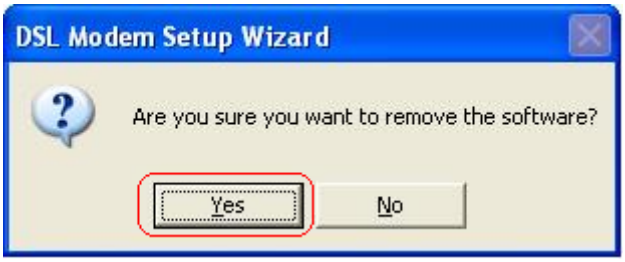
8.1 Windows Uninstall

Remove the USB ADSL Modem software drivers by performing the following steps:

Note: The USB cable should NOT be unplugged until you are prompted to do so.

Step 1: From your PC desktop, click **Start** → **Programs** → **Conexant DSL Modem** → **Uninstall**.

Step 2: A message will be displayed and asking you to confirm the removal of the USB ADSL modem software. Click **Yes**.



Step 3: You will be reminded not to unplug the USB cable until the uninstall process has been completed. Click **OK**.

Step 4: A message will be displayed indicating the software is being removed.

Step 5: You will be prompted to unplug your modem. Unplug the USB cable from the PC and click **OK**.

Step 6: The DSL Modem Setup Wizard window will appear as below. The system will automatically reboot within 10 seconds.

Note: The USB cable must be unplugged **BEFORE** the system is rebooted.

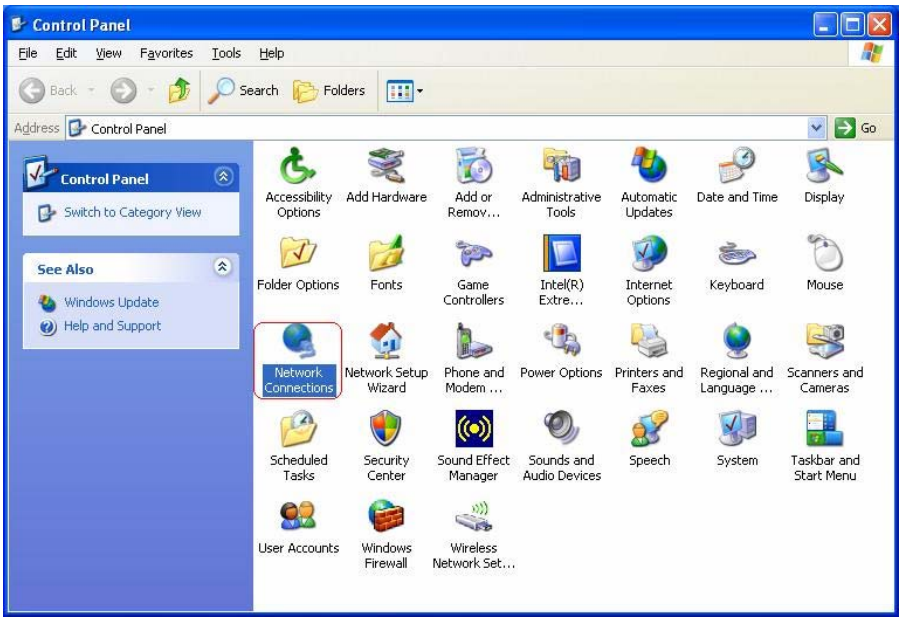
9. Modifying TCP/IP Networking Option

9.1 WAN USB Driver

9.1.1 Microsoft Windows XP

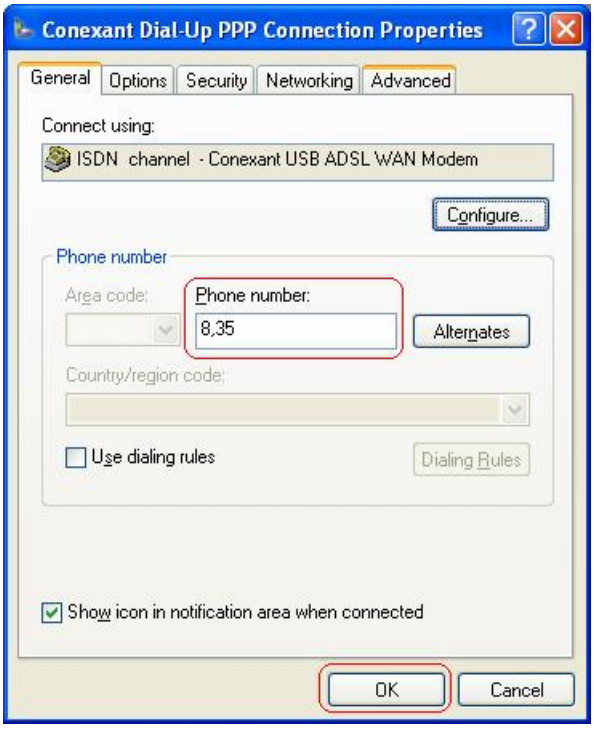
TCP/IP settings are set up automatically during the software installation process. The following procedure may be used to change TCP/IP settings, if necessary.

Step 1: From your PC desktop, open the **"Control Panel"** window (**Start → Control Panel**). Double click the **Network Connections** icon.

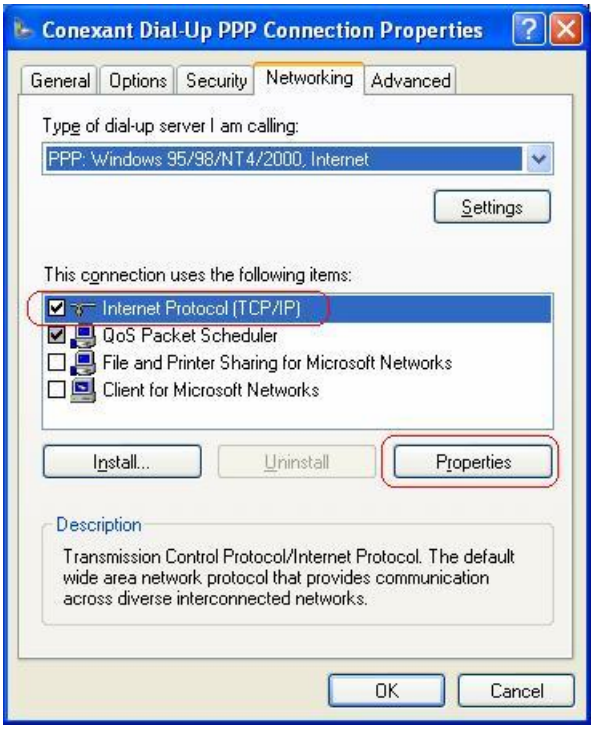


Step 2: From the **"Network Connections"** window, right click the **Conexant Dial-Up PPP Connection** icon and click **Properties**.

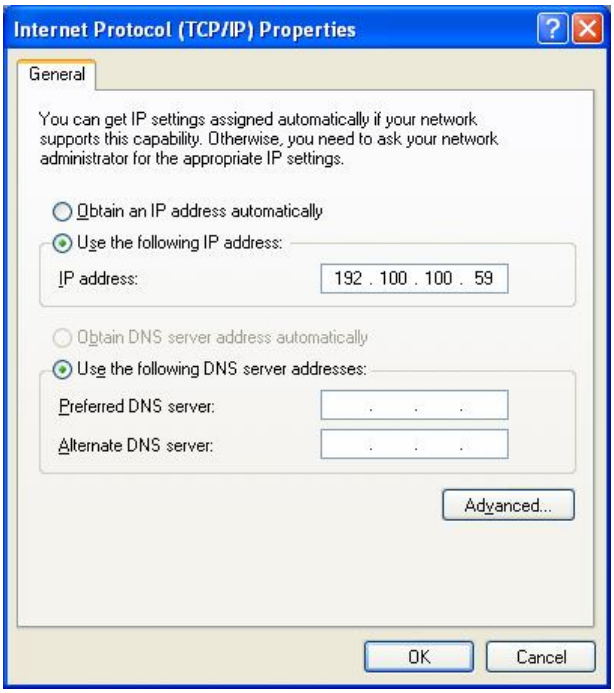
Step 3: The **"General"** tab of the **"Conexant Dial-Up PPP Connection Properties"** window allows you to specify a different VPI and VCI, if needed. Contact your DSL service provider before altering this connection information. Enter the VPI and VCI in the Phone Number field (For example: 8,35)



Step 4: From the **"Networking"** tab of the **"Conexant Dial-Up PPP Connection Properties"** Window, select **Internet Protocol (TCP/IP)** and click **Properties**.



Step 5: Use the "**Internet Protocol (TCP/IP) Properties**" window to modify the IP address and DNS Server addresses as follows:



- Change the IP address to a user defined address by selecting Use the following IP address (click inside the radio button to the left of it) and typing the address in the space provided
- Change the DNS Server addresses to user defined addresses by selecting Use the following DNS server addresses (click inside the radio button to the left of it) and typing the addresses in the spaces provided.
- The "Advanced" button of the "Internet Protocol (TCP/IP) Properties" window may be used to alter DNS addresses, WINS addresses and IP security settings.

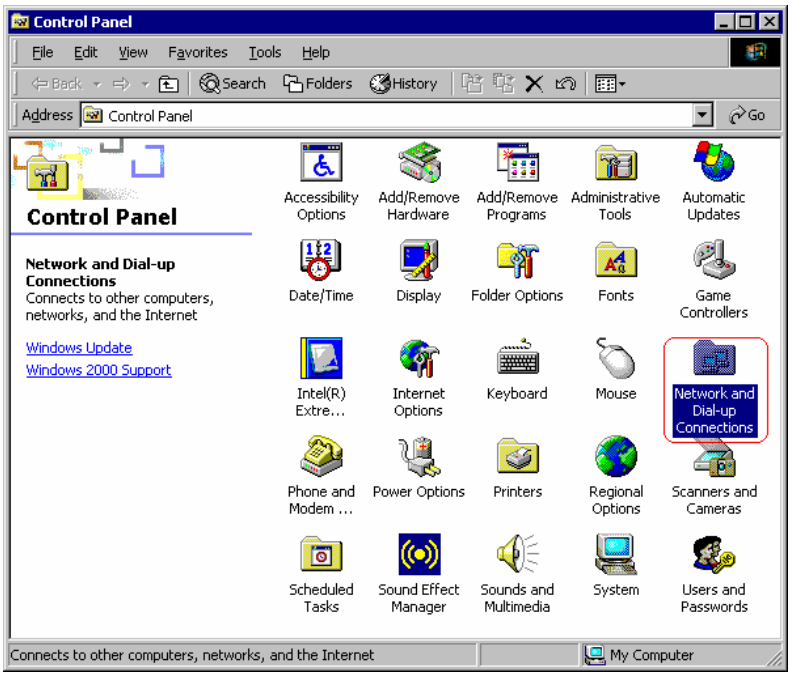
Step 6: Click **OK** to apply your changes and exit from the **"Internet Protocol (TCP/IP) Properties"** window.

Step 7: The **"Conexant Dial-Up PPP Connection Properties"** window will reappear. Click **OK** to end the TCP/IP options modification session

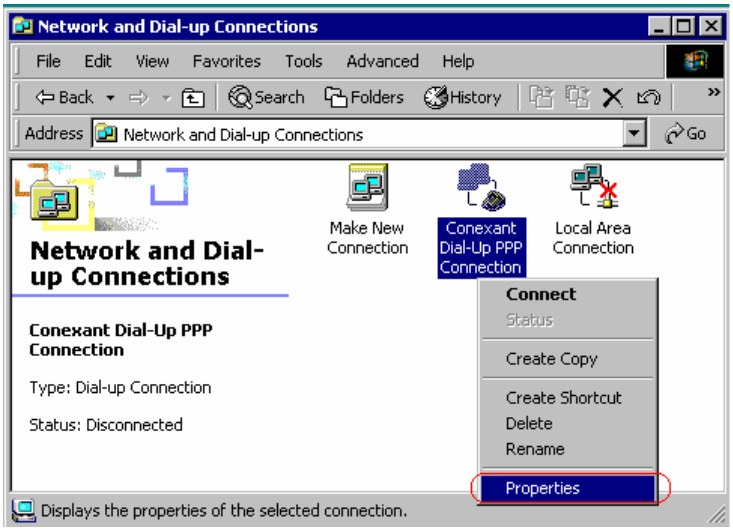
9.1.2 Microsoft Windows 2000

TCP/IP settings are set up automatically during the software installation process. The following procedure may be used to change TCP/IP settings, if necessary.

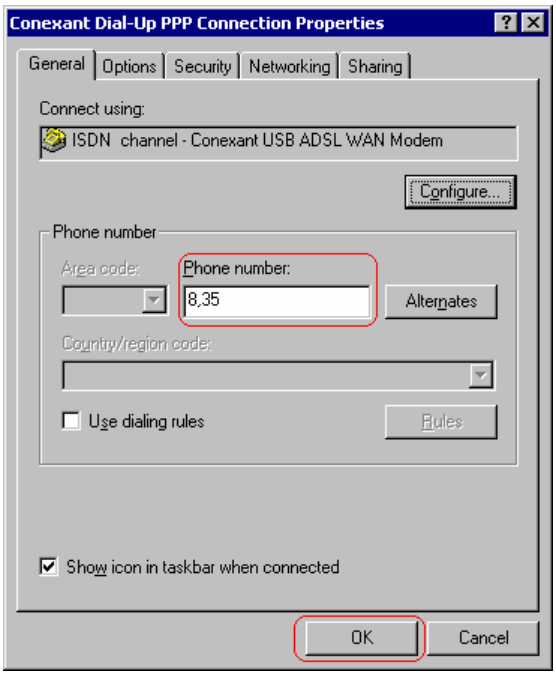
Step 1: From your PC desktop, open the **"Control Panel"** window (**Start → Settings → Control Panel**). Double click the **Network and Dial-up** icon.



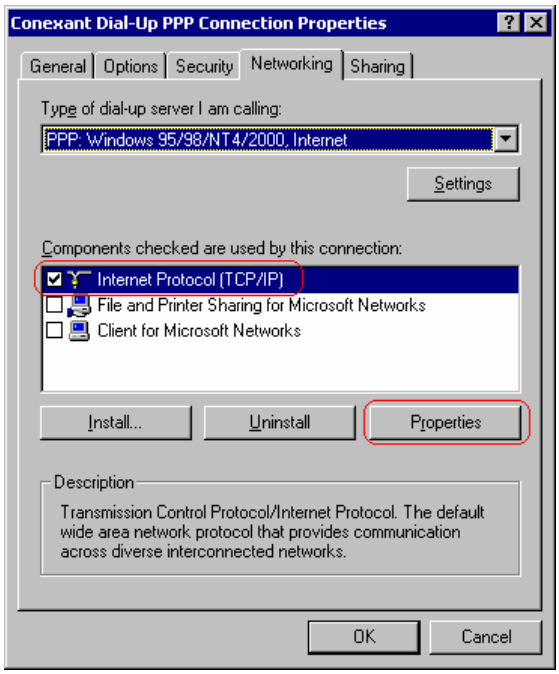
Step 2: From the **"Network and Dial-up"** window, right click the **Conexant Dial-Up PPP Connection** icon and click **Properties**.



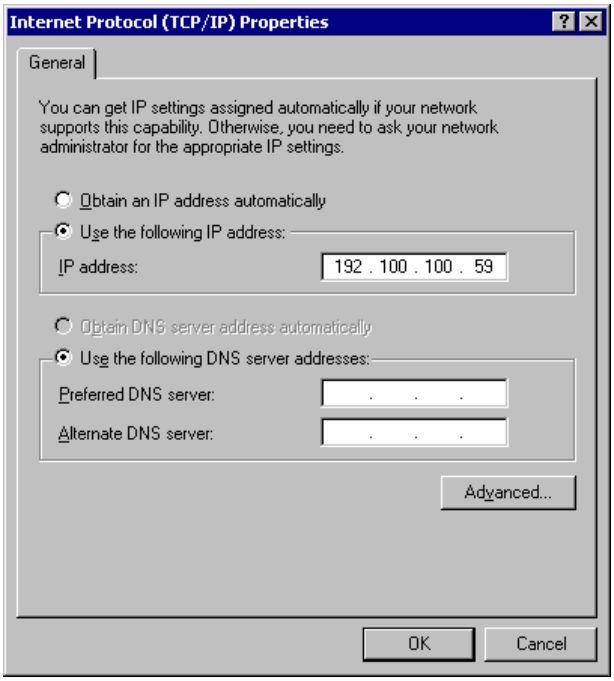
Step 3: The **"General"** tab of the **"Conexant Dial-Up PPP Connection Properties"** window allows you to specify a different VPI and VCI, if needed. Contact your DSL service provider before altering this connection information. Enter the VPI and VCI in the Phone Number field (For example: 8,35)



Step 4: From the **"Networking"** tab of the **"Conexant Dial-Up PPP Connection Properties"** window, select **Internet Protocol (TCP/IP)** and click **Properties**



Step 5: Use the **"Internet Protocol (TCP/IP) Properties"** window to modify the IP address and DNS Server addresses as follows:



- Change the IP address to a user defined address by selecting Use the following IP address (click inside the radio button to the left of it) and typing the address in the space provided
- Change the DNS Server addresses to user defined addresses by selecting Use the following DNS server addresses (click inside the radio button to the left of it) and typing the addresses in the spaces provided.
- The “Advanced” button of the “Internet Protocol (TCP/IP) Properties” window may be used to alter DNS addresses, WINS addresses and IP security settings.

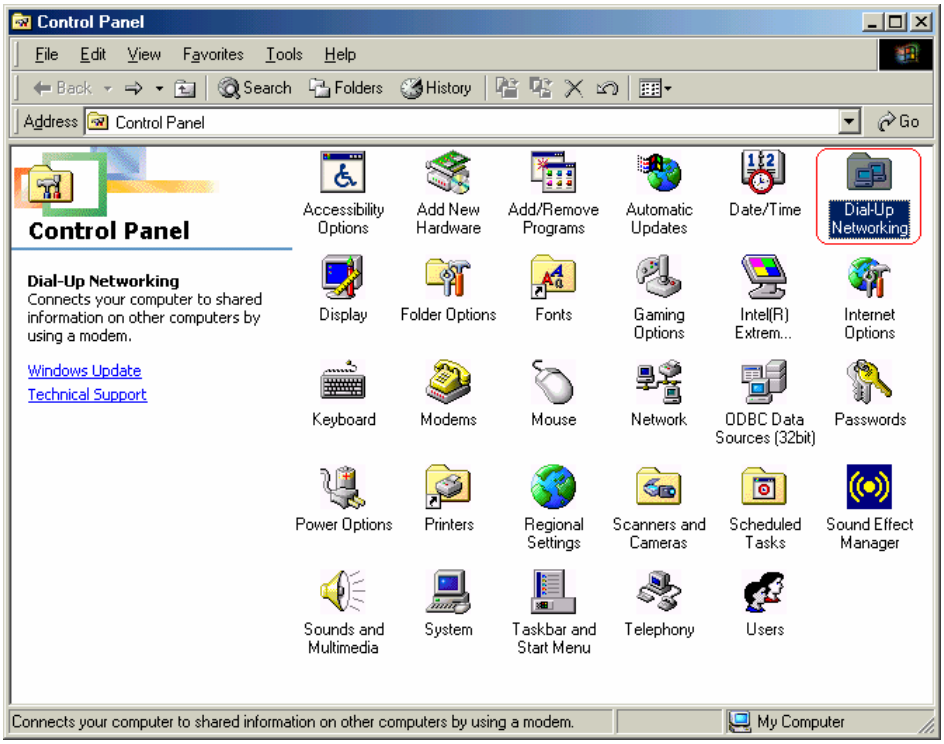
Step 6: Click **OK** to apply your changes and exit from the **“Internet Protocol (TCP/IP) Properties”** window.

Step 7: The **“Conexant Dial-Up PPP Connection Properties”** window will reappear. Click **OK** to end the TCP/IP options modification session

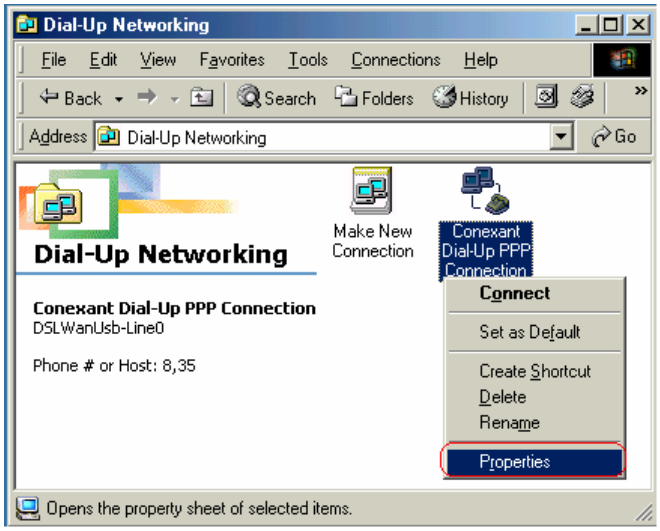
9.1.3 Microsoft Windows ME

TCP/IP settings are set up automatically during the software installation process. The following procedure may be used to change TCP/IP settings, if necessary.

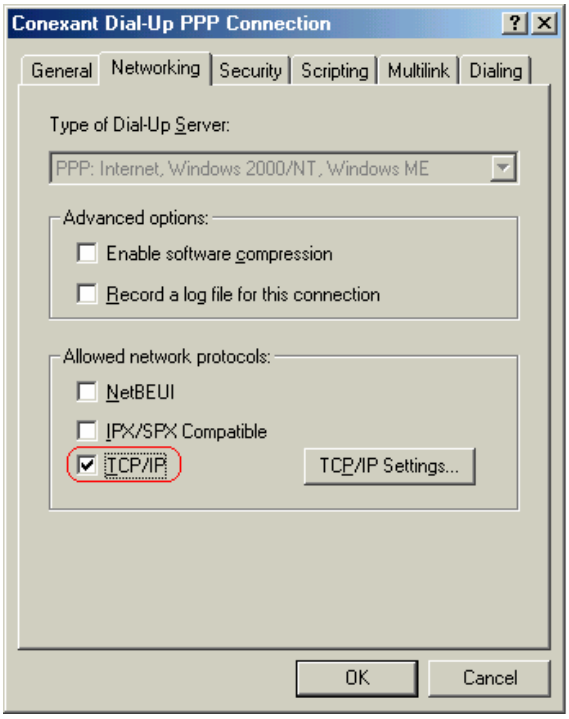
Step 1: From your PC desktop, open the “Dial-up Networking” window (**Start → Settings → Control Panel → Dial-up Networking**).
Double click the **Dial-up Networking** icon.



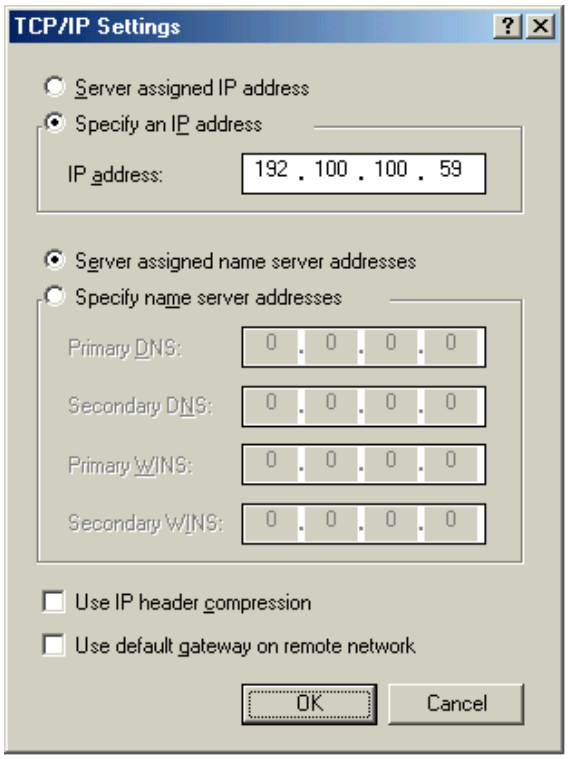
Step 2: From the **"Dial-up Networking"** window, right click the **Conexant Dial-Up PPP Connection** icon and click **Properties**.



Step 3: From the **"Networking"** tab of the **Conexant Dial-up PPP Connection** Window, select **TCP/IP** (marked with a check in the check-box to the left) and click **TCP/IP Settings** button.



Step 4: Use the **"TCP/IP Settings"** window to modify the IP address, Name Server address and/or default gateway as follows:



- Change the IP address to a user defined address by selecting *Specify an IP address* (click inside the circle to the left of it) and typing the address in the space provided
- Change the Name Server addresses to user defined addresses by selecting

Specify name server addresses (click inside the circle to the left of it) and typing the addresses in the spaces provided

- Change the default gateway by leaving the box blank to the left of *Use default gateway* on remote *network*.

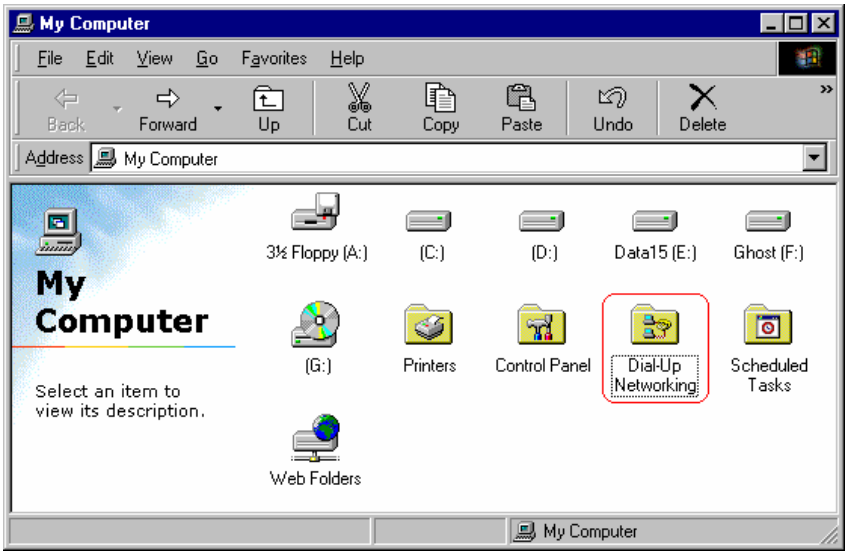
Step 5: Click **OK** to apply your changes and exit from the **"TCP/IP Settings"** window.

Step 6: The **"Conexant Dial-Up PPP Connection"** window will reappear. Click **OK** to end the TCP/IP options session

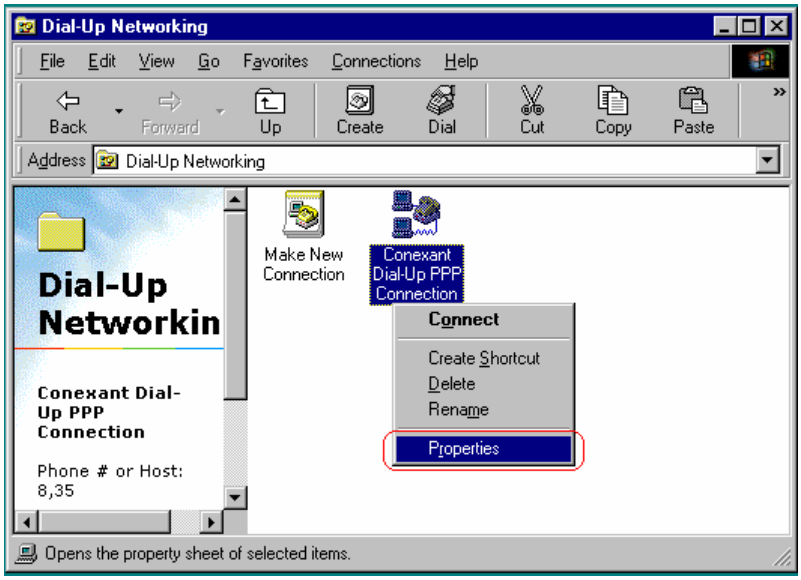
9.1.4 Microsoft Windows 98SE

TCP/IP settings are set up automatically during the software installation process. The following procedure may be used to change TCP/IP settings, if necessary.

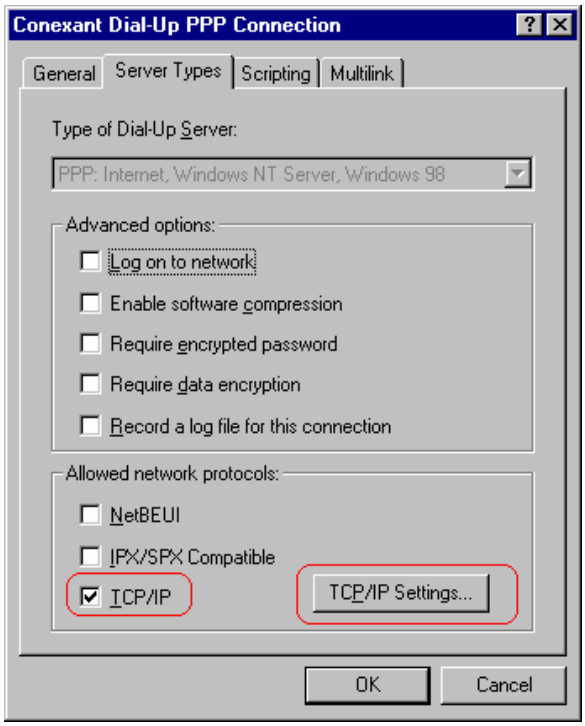
Step 1: From your PC desktop, open the **"Control Panel"** window (**Start → Settings → Control Panel**). Double click the **Dial-up Connections** icon.



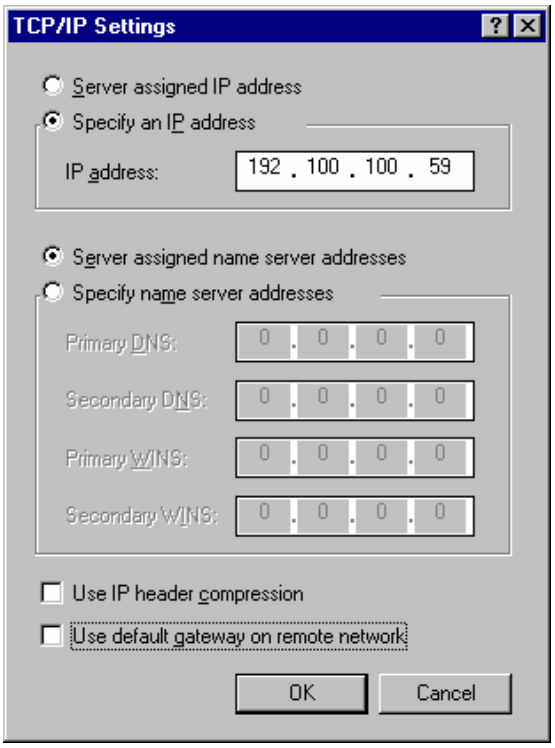
Step 2: From the **"Dial-up Connections"** window, right click the **Conexant Dial-Up PPP Connection** icon and click **Properties**.



Step 3: From the **"Server Types"** tab of the **"Conexant Dial-up PPP Connection"** Window, select **TCP/IP** by checking the check to the left and click **TCP/IP settings** button.



Step 4: Use the **"TCP/IP Settings"** window to modify the IP address, Name Server address and/or default gateway as follows:



- Change the IP address to a user defined address by selecting *Specify an IP address* (click inside the circle to the left of it) and typing the address in the space provided
- Change the Name Server addresses to user defined addresses by selecting *Specify name server addresses* (click inside the circle to the left of it) and typing the addresses in the spaces provided
- Change the default gateway by leaving the box blank to the left of *Use default gateway* on remote *network*.

Step 5: Click **OK** to apply your changes and exit from the **"TCP/IP Settings"** window.

Step 6: The **"Conexant Dial-Up PPP Connection"** window will reappear. Click **OK** to end the TCP/IP options session

9.2 LAN USB Driver

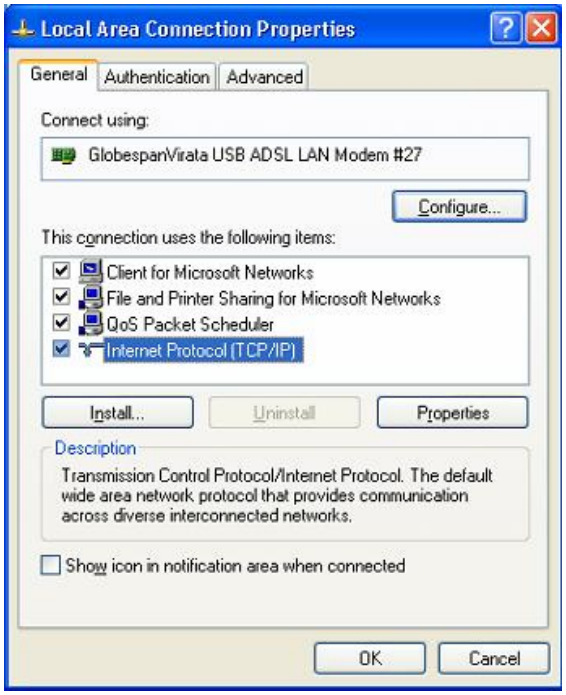
9.2.1 Microsoft Windows XP

TCP/IP settings are automatically set up during the software installation process. The following procedure may be used to change TCP/IP settings, if necessary.

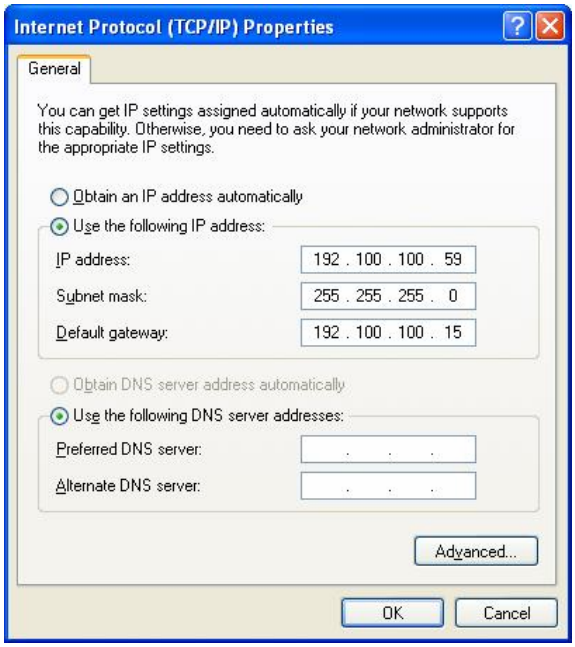
Step 1: From your PC desktop, open the **"Control Panel"** windows (**Start → Control**) Double click the **Network Connections** icon.

Step 2: Double click the **Local Area connection** icon from the **"Network Connections"** window.

Step 3: Select **Internet Protocol (TCP/IP)** from the **"General"** tab of the **"Local Area Connection Properties"** windows. Click **Properties**.



Step 4: The **"Internet Protocol(TCP/IP) Properties"** window is used to modify the IP address and DNS Server address as follows.



- Change the IP address to a user defined address by selecting *Use the following IP*

address option (click inside the circle to the left of it) and typing the addresses in the spaces provided

- Change the DNS Server addresses to user defined addresses by selecting *Use the following DNS server addresses* (click inside the circle to the left of it) and typing the addresses in the spaces provided.
- The Advanced button of the *"Internet Protocol (TCP/IP) Properties"* window may be used to alter IP settings, DNS server addresses, WINS addresses, IP security options, and TCP/IP filtering options.

Step 5: Click **OK** to apply your changes and exit from the **"Internet Protocol (TCP/IP) Properties"**

Step 6: The **"Local Area Connection Properties"** window will reappear. Click **OK** to end the TCP/IP options modification session.

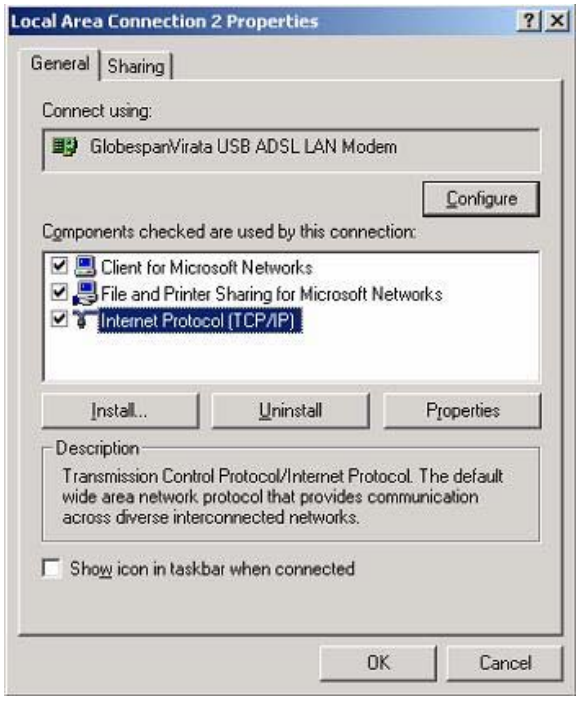
9.2.2 Microsoft Windows 2000

TCP/IP settings are automatically set up during the software installation process. The following procedure may be used to change TCP/IP settings, if necessary.

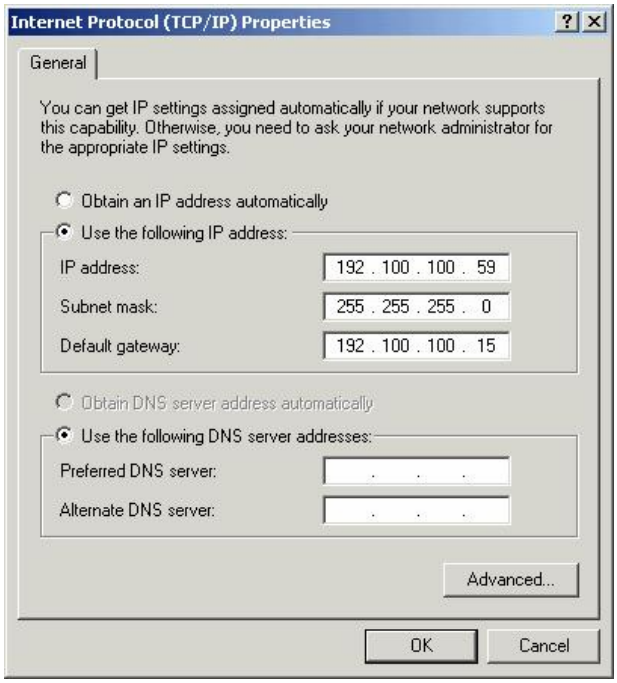
Step 1: From your PC desktop, open the **"Control Panel"** windows (**Start → Settings → Control**). Double click the **Network and Dial-up Connection** icon.

Step 2: Double click the **Local Area connection** icon from the **"Network and Dial-up Connection"** window.

Step 3: Select **Internet Protocol (TCP/IP)** from the **"General"** tab of the **"Local Area Connection Properties"** windows. Click **Properties**.



Step 4: The **"Internet Protocol(TCP/IP) Properties"** window is used to modify the IP address and DNS Server address as follows.



- Change the IP address to a user defined address by selecting *Use the following IP address* option (click inside the circle to the left of it) and typing the addresses in the spaces provided
- Change the DNS Server addresses to user defined addresses by selecting *Use the following DNS server addresses* (click inside the circle to the left of it) and typing the addresses in the spaces provided.

- The Advanced button of the *"Internet Protocol (TCP/IP) Properties"* window may be used to alter IP settings, DNS server addresses, WINS addresses, IP security options, and TCP/IP filtering options.

Step 5: Click **OK** to apply your changes and exit from the **"Internet Protocol (TCP/IP) Properties"**

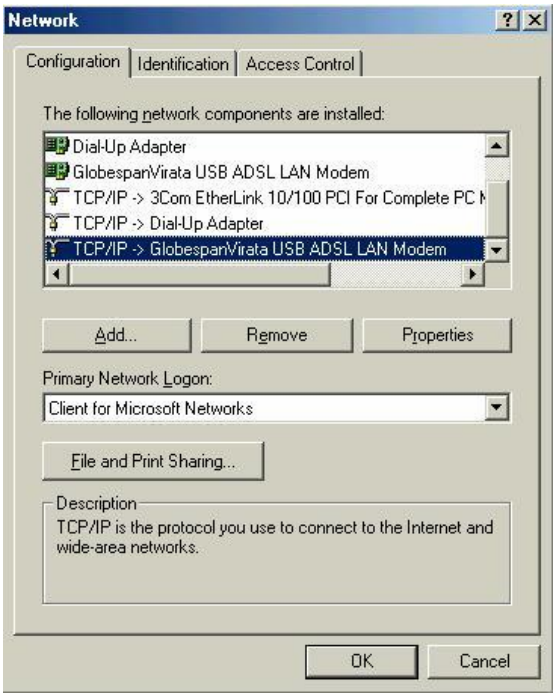
Step 6: The **"Local Area Connection Properties"** window will reappear. Click **OK** to end the TCP/IP options modification session.

9.2.3 Microsoft Windows ME

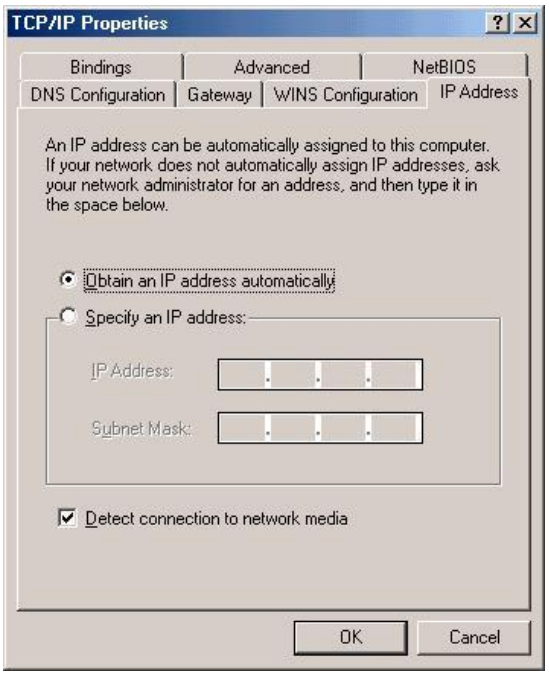
TCP/IP settings are automatically set up during the software installation process. The following procedure may be used to change TCP/IP settings, if necessary.

Step 1: From your PC desktop, open the **"Control Panel"** windows (**Start → Settings → Control**). Double click the **Network** icon.

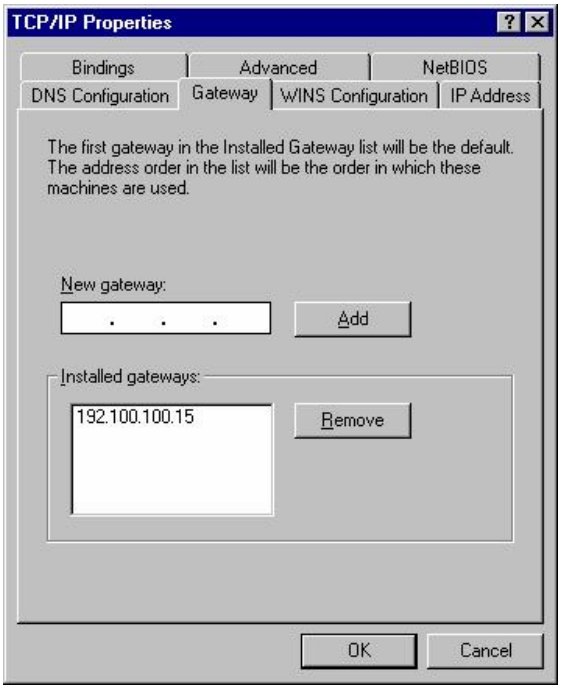
Step 2: Select **TCP/IP → Conexant USB ADSL LAN Modem** from the **"Configuration"** tab of the **"Network"** window. Click **Properties**.



Step 3: From the **"IP Address"** tab of the **"TCP/IP Properties"** window, select either the **Obtain an IP address Automatically** or **Specify an IP Address** option, depending on your network setup. If you select **Specify an IP Address**, type the **IP Address** and **Subnet Mask** in the spaces provided. Consult with your network administrator to determine which option best suit your individual needs.



Step 4: The **"Gateway"** tab allows you to add or remove gateways. Consult with your network administrator to determine the appropriate address for your individual needs.



- To add a new gateway, type the address in the New gateway field and click *Add*. The new gateway will appear in the *Installed gateway* list.
- To remove a previously installed gateway, highlight the entry to be removed in the *Installed gateway* list and click **Remove**. The gateway will no longer appear in the *Installed gateways* list.

Step 5: Click **OK** to apply your changes and exit from the **"TCP/IP Properties"** windows.

Step 6: The **"Network"** window will reappear. Click **OK** to end the TCP/IP options modification session.

Step 7: If you have made changes to TCP/IP properties, you will be asked to restart/reboot your PC. Click **Yes**, and your PC will restart.

9.2.4 Microsoft Windows 98SE

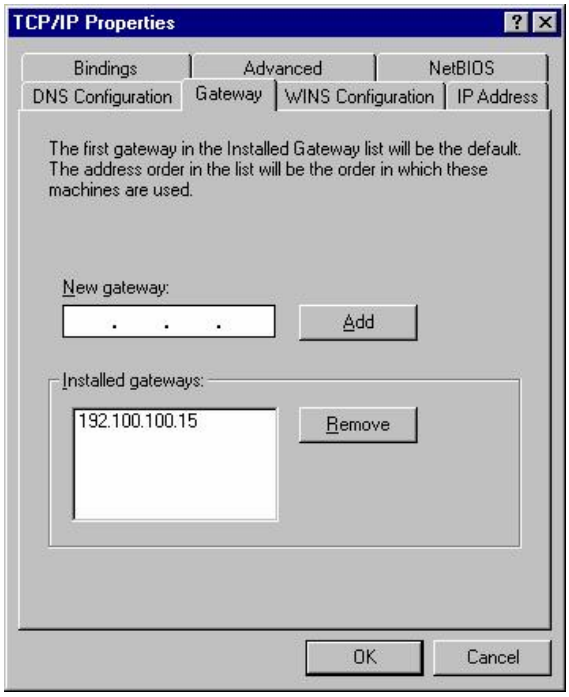
TCP/IP settings are automatically set up during the software installation process. The following procedure may be used to change TCP/IP settings, if necessary.

Step 1: From your PC desktop, open the **"Control Panel"** windows (**Start → Settings → Control**). Double click the **Network** icon.

Step 2: Highlight **TCP/IP → Conexant USB ADSL LAN Modem** from the list of installed network components in the **"Configuration"** tab of the **"Network"** window. Click **Properties**.

Step 3: From the **"IP Address"** tab of the **"TCP/IP Properties"** window, select either the **Obtain an IP address Automatically** or **Specify an IP Address** option, depending on your network setup. If you select **Specify an IP Address**, type the **IP Address** and **Subnet Mask** in the spaces provided. Consult with your network administrator to determine which option best suit your individual needs.

Step 4: The **"Gateway"** tab allows you to add or remove gateways. Consult with your network administrator to determine the appropriate address for your individual needs.



- To add a new gateway, type the address in the New gateway field and click *Add*. The new gateway will appear in the *Installed gateway* list.
- To remove a previously installed gateway, highlight the entry to be removed in the *Installed gateway* list and click **Remove**. The gateway will no longer appear in the *Installed gateways* list.

Step 5: Click **OK** to apply your changes and exit from the **"TCP/IP Properties"** windows.

Step 6: The **"Network"** window will reappear. Click **OK** to end the TCP/IP options modification session.

Step 7: If you have made changes to TCP/IP properties, you will be asked to restart/reboot your PC. Click **Yes**, and your PC will restart.

If you have any troubles to configure or setup this ADSL USB Modem, please contact us. Before contacting us, make sure collect following information. Submit complete detailed information of your problem will help us to provide you accurate answers.

Model Name:

Serial Number:

PC Settings:

Other: