

Broadband Modem Installation Guide

Release Versions AMC-6 72.0W Ku Band

- *StarConnect SAT VPN Software Version 2.02*
 - *Broadband4PC Software Version 4.3.2*

Manual last revised 12/2006

Federal Communications Commission Radio Frequency Interference Statement

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference 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. However, if this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.
- Use a shielded and properly grounded I/O cable and power cable to ensure compliance of this unit to the specified limits of the rules.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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Warning: Before installing your drivers and software, please disable your Firewall protection and leave it off until you actually connect to a website for the first time. At that time you can re-enable your Firewall protection. **Failure to do this may cause erratic behavior with your satellite software.**

1 Getting Started – Installing B2C2 Broadband Modem

Package Contents

Each package should contain the following items:

- Either a TechniSat Internal (PCI) or a TechniSat USB Satellite Modem
- Installation CD
- Power Supply (USB modem only)
- USB Cable (USB modem only)
- User's Guide

System Requirements

- Pentium II 700 MHz or higher, with modem installed.
- Microsoft Windows XP – Home Edition/Professional (Service Pack 2 or higher required)
- Microsoft Windows 2000 Professional/Server (Service Pack 4 or higher recommended)
- 256 MB minimum of system memory
- 30 MB of hard disk space available
- 1 available USB Port (for external USB satellite modem)
- 3D graphics recommended
- Microsoft Internet Explorer (web browser) version 6.0 installed (Service Pack 2 or higher required)
- Microsoft Windows Media Player Version 9.0 or later
- Microsoft DirectX 9 or later.

AOL Client Notice: Industry wide, the AOL application, which is loaded onto an AOL's customers PC, is very much intrusive in nature, as it does not like to operate with any other Internet Service Provider other than AOL. The AOL application tends to cause conflicts with other Internet based services such as cable modem, DSL, and satellite. Therefore, it is highly recommended that the AOL application be removed from your PC prior to having the B2C2 satellite modem and the TechniSat software installed on your PC. In the event that you elect not to remove the AOL application from your PC prior to installing the B2C2 satellite modem and the TechniSat software, NRBB does not assume any responsibility for any applications that may malfunction after the installation of the B2C2 satellite modem and the TechniSat software. It is important to note that it is possible to remove the AOL application and still retrieve your AOL email, be part of the AOL Instant Messenger list, etc. using a standard Internet browser (i.e. Internet Explorer, Netscape, etc.), if desired, together with the satellite modem. Once AOL is removed and all of the satellite software installed and running, you can re-install AOL 9.0.

Static Electricity Warning

To prevent static damage to electronic components, observe the following precautions:

- ★ Touch an anti-static or grounded surface such as a large metal object to discharge static from your body before you remove the electronic components from their packaging and before touching system components.
- ★ Handle system components only at the corners. Never touch any of the metal parts of the electronic components, such as the golden pins that plug into the slot.

Installing The Internal B2C2 Satellite PCI Modem

To install the internal PCI satellite modem, first insure that the computer is turned off. Following your PC manufacturer's instructions, do the following:

1. Turn the PC off and unplug the power supply.
2. Open the side panel or rear cover of your computer to expose the PCI slots.
3. Choose an empty PCI slot you want to place the board in. Unscrew the slot's metal dust protector located on the back cover of the case. Lay the protector to one side.
4. Hold the internal PCI satellite modem so that the satellite modem's IC chips are facing downward, the metal contacts are toward the PCI slot.
5. Insert the internal PCI satellite modem firmly into the PCI slot as shown in Figure 1-1.

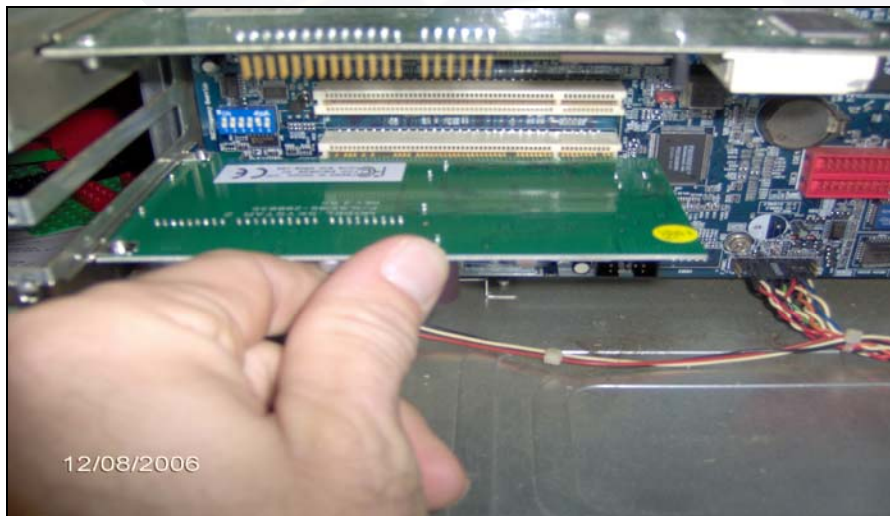


Figure 1-1

6. Tighten the screw on the rear of the internal PCI satellite modem so that it is firmly secured to the computer chassis (if available).
7. Replace the access cover of your computer case.

Installing External USB Satellite Modem

To install the external USB satellite modem, do the following steps. There's no need to turn off the computer at this time.

1. Connect the power cord, one end to the power outlet, the other to the DC IN connector on the back of the external USB satellite modem.
2. Connect the external USB satellite modem cable, one end to the USB port on the PC. **DO NOT** connect the other end to the USB port on the back of the external USB satellite modem yet.
3. Connect the coaxial cable from the satellite dish to the female plug on the TechniSat modem you just installed.

2 Installing Drivers

(*The PCI and USB drivers are located on the CD supplied with your B2C2 satellite modem. It is necessary to install the modem and drivers prior to installing the satellite software) Our drivers support Windows XP and Windows 2000 Professional. The procedure for the driver installation for the Internal PCI satellite modem and the External USB satellite modem are the same. **If installing the External USB satellite modem drivers, plug in the USB cable into the back of the B2C2 satellite modem at this time.**

Windows XP

To install the B2C2 satellite modem driver on Windows XP, you must be logged on as an Administrator or have Administrator Privileges.

1. When you start your computer for the first time after installing the B2C2 internal PCI satellite modem, or after plugging in the external B2C2 USB satellite modem, the Plug-N-Play feature should recognize the new modem installed (Figure 2-1).



Figure 2-1

- The New Hardware Wizard window will appear (Figure 2-2). Click the bottom radio button to select “No, not this time” (If this window does not appear on your system, skip to **Step 3**). Then click **Next** to continue.



Figure 2-2

- Select the radio button to install the software automatically, then click **Next** to continue (Figure 2-3).



Figure 2-3

4. The computer will now search through the CD for the appropriate drivers (Figure 2-4).

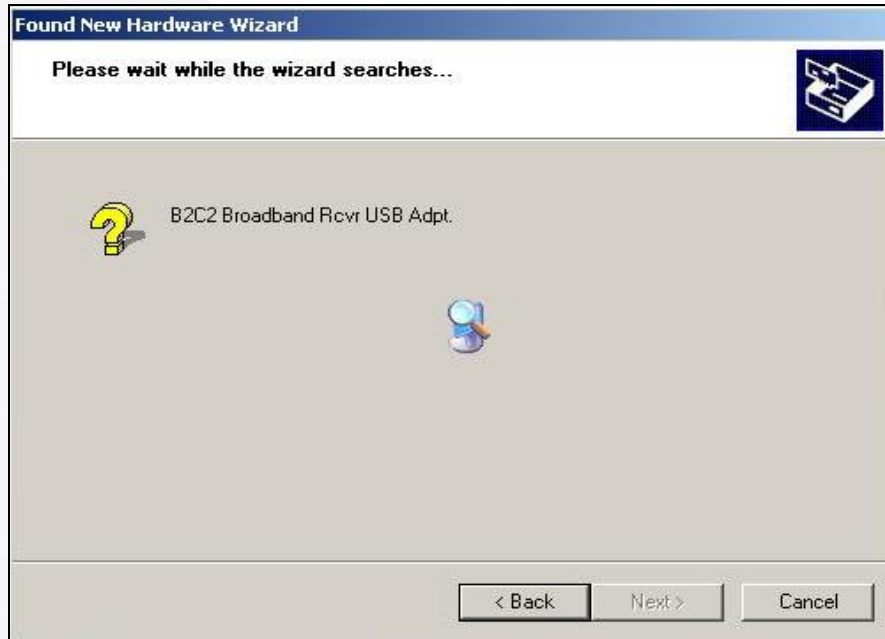


Figure 2-4

5. Select **Continue Anyway** when reported that the TechniSat modem has not passed Windows Logo testing as shown below in Figure 2-5.

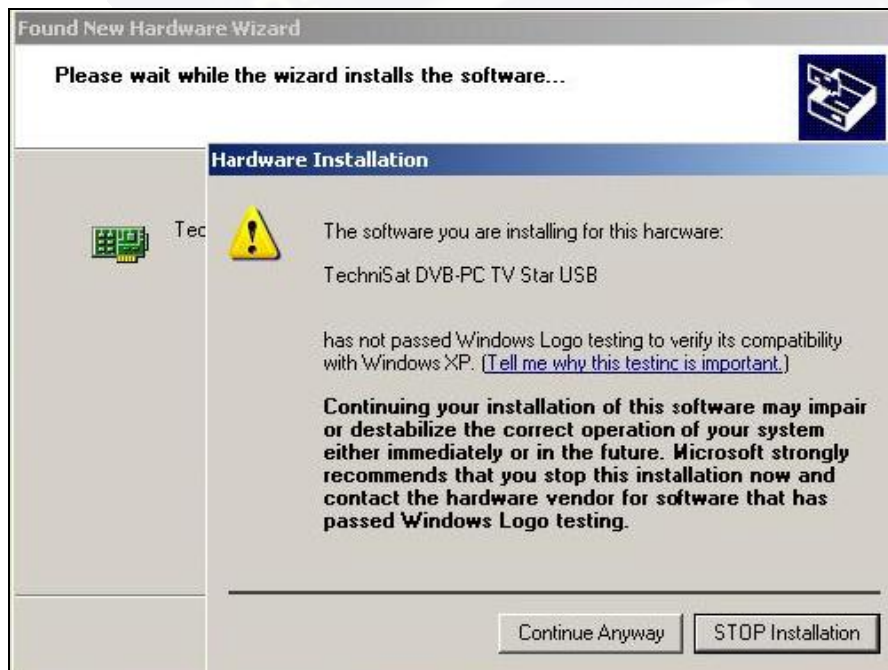


Figure 2-5

6. Windows XP continues installing for the correct drivers (Figure 2-6).



Figure 2-6

7. After Windows XP finds and installs the appropriate drivers, click **Finish** (Figure 2-7).



Figure 2-7

8. Windows XP will then display that the new hardware was found, is installed and is ready to use (Figure 2-8).



Figure 2-8

9. Remove the CD from the CD Rom drive and restart your computer.

You have successfully installed the drivers and are ready to install the TechniSat modem software. Proceed to **Chapter 3: Installing The Software**.

3 Installing the Software

The application used to configure and maintain the TechniSat modem is located on the installation CD provided with the B2C2 PCI or USB modem. To install it, you'll need to insert the CD into the CD Rom drive.

1. Windows XP will automatically start the CD and ask you to select the Setup language. Then click **OK** (Figure 3-1).



Figure 3-1

2. The Install Shield Wizard will start to load automatically (Figure 3-2).



Figure 3-2

3. The software License Agreement will be displayed next as shown in Figure 3-3 below. Click **Yes** to continue with the software installation. If you select **No**, the software will not be installed.

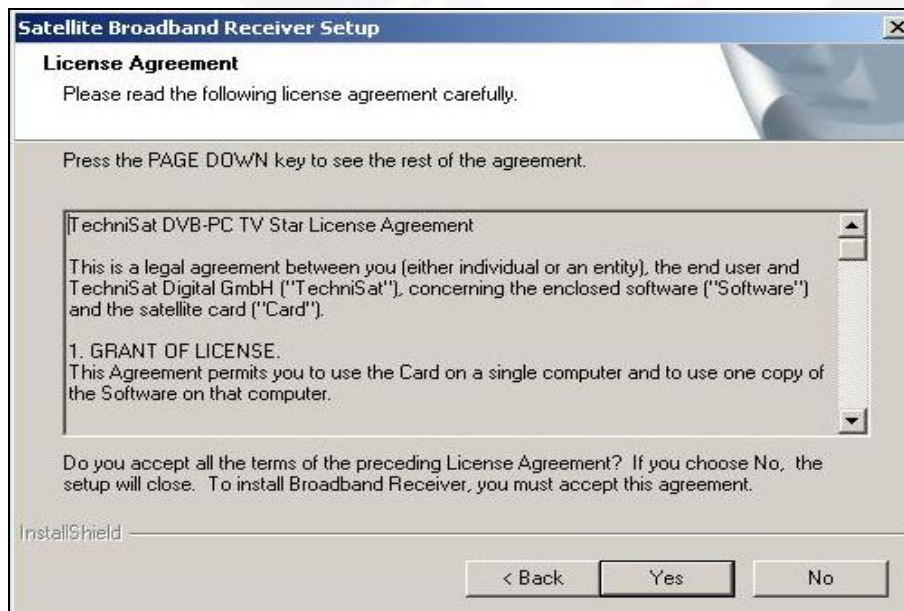


Figure 3-3

- Windows XP will automatically select the Destination Folder. Click Next to continue (Figure 3-4).

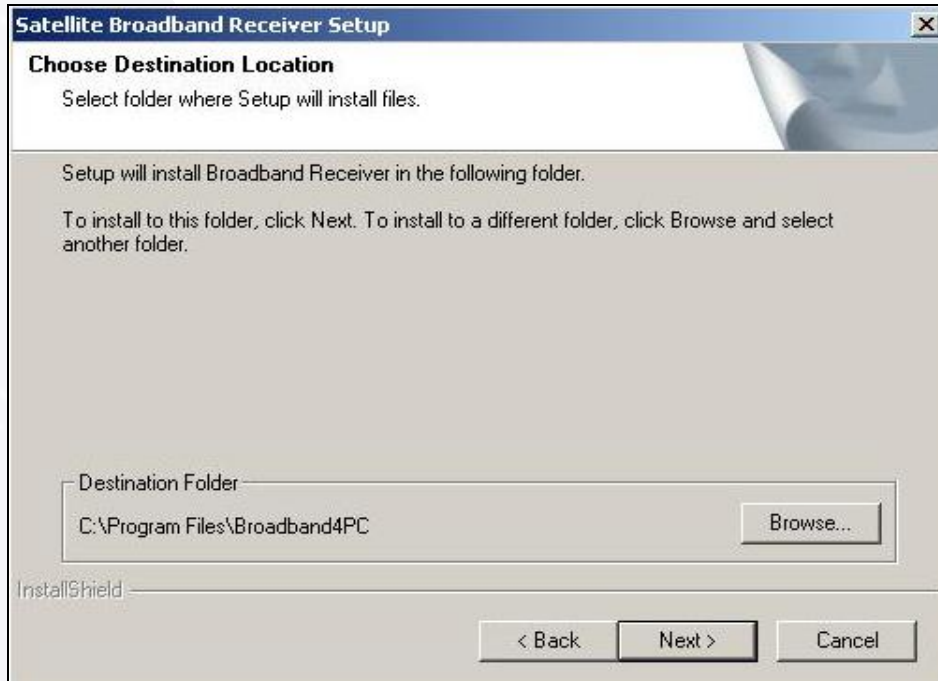


Figure 3-4

- Windows XP will automatically select the Program Folder. Click Next to continue (Figure 3-5).

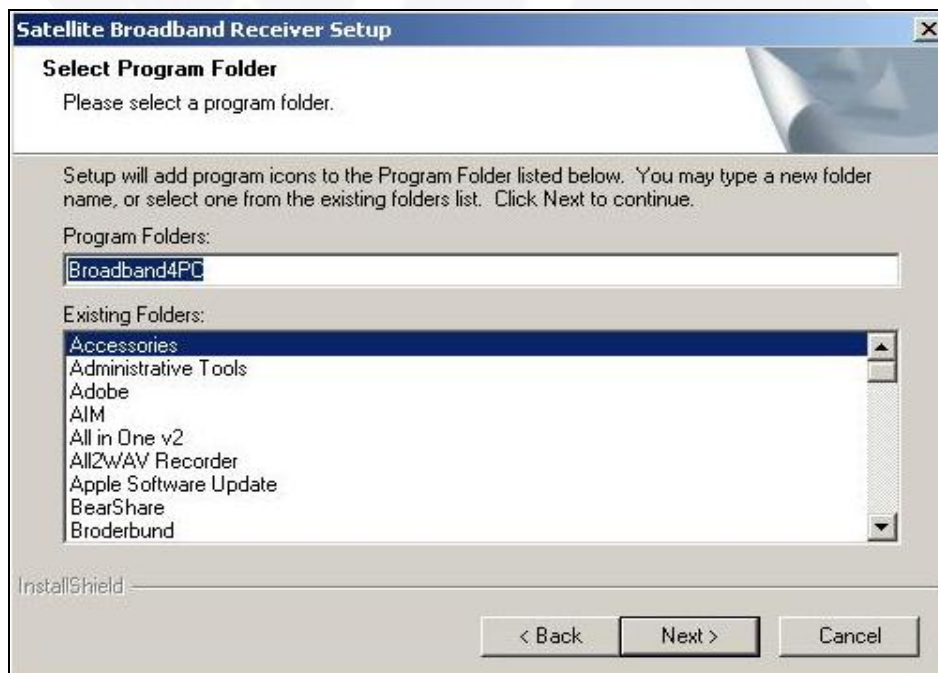


Figure 3-5

- Windows XP will start the software installation. This may take up to several minutes depending on your computer (Figure 3-6).

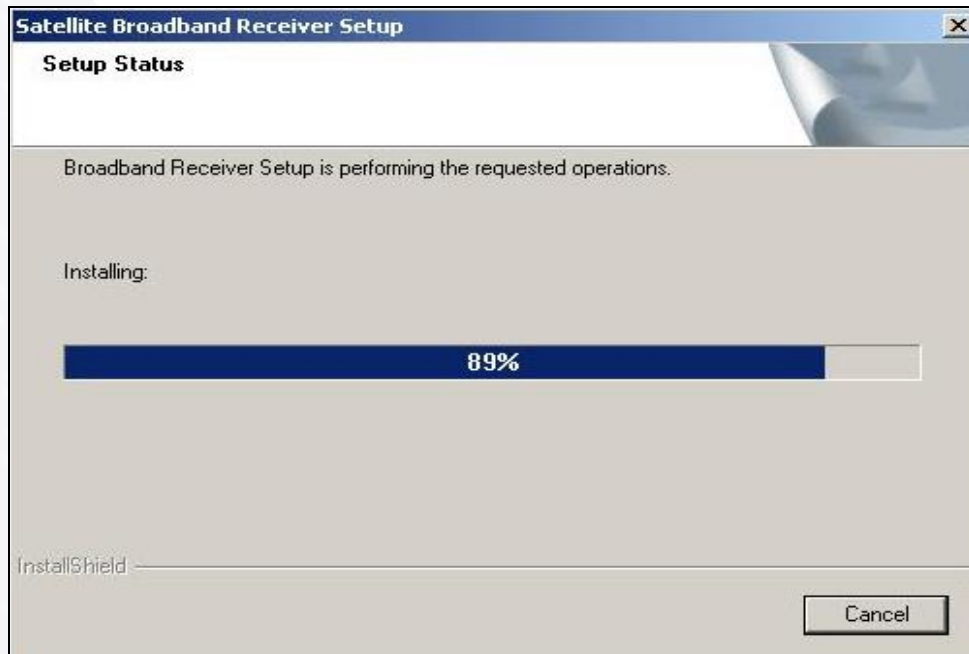


Figure 3-6

7. Windows XP will now begin the second phase of the software installation as shown in Figure 3-7. This may take several minutes depending on your computer.



Figure 3-7

8. Windows XP will now load the software necessary for the StarConnect Satellite VPN. The Install Wizard will start automatically. Click Next to continue (Figure 3-8).



Figure 3-8

9. The software License Agreement will be displayed next as shown in Figure 3-9 below. Click **Yes** to continue with the software installation. If you select **No**, the software will not be installed.

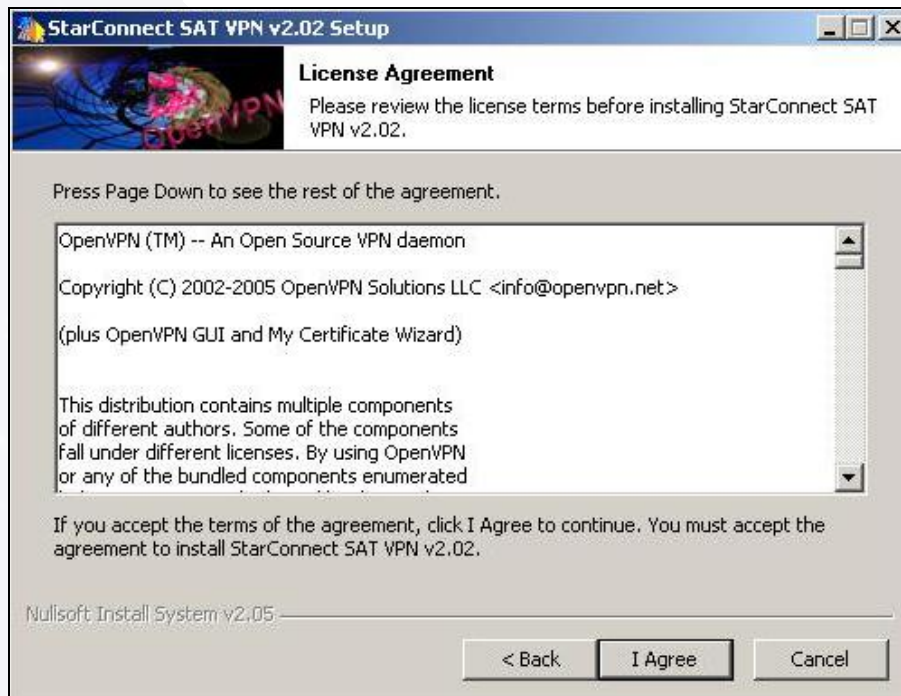


Figure 3-9

10. The software will automatically select which components to install on your computer. Click **Next** to continue (Figure 3-10). **Do not** change any of the settings at this time.

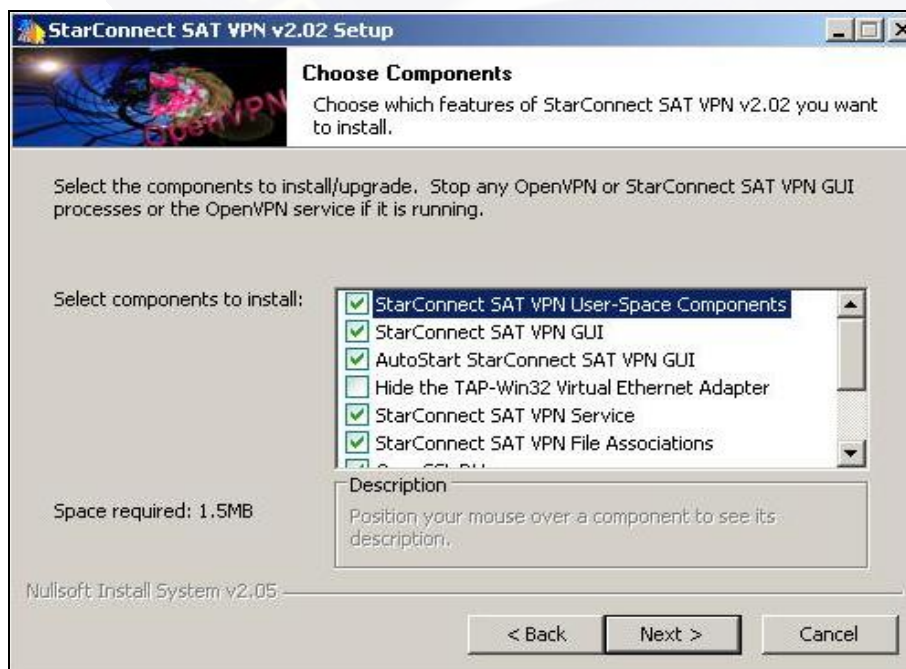


Figure 3-10

11. The software will automatically select the Install Location. Click Install to continue (Figure 3-11).

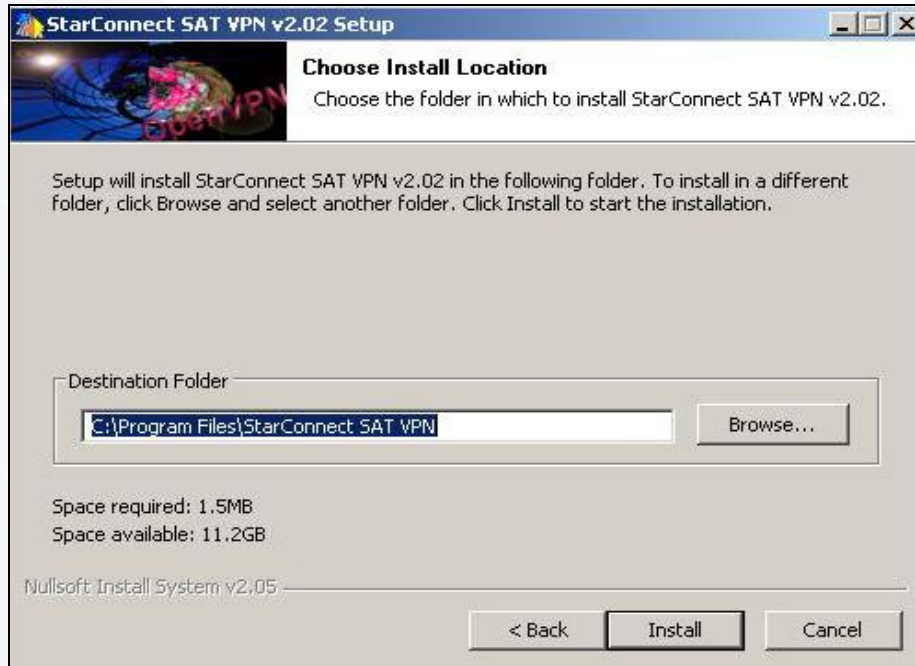


Figure 3-11

12. Windows XP will now install the StarConnect Satellite VPN software into the appropriate locations on your computer (Figure 3-12).

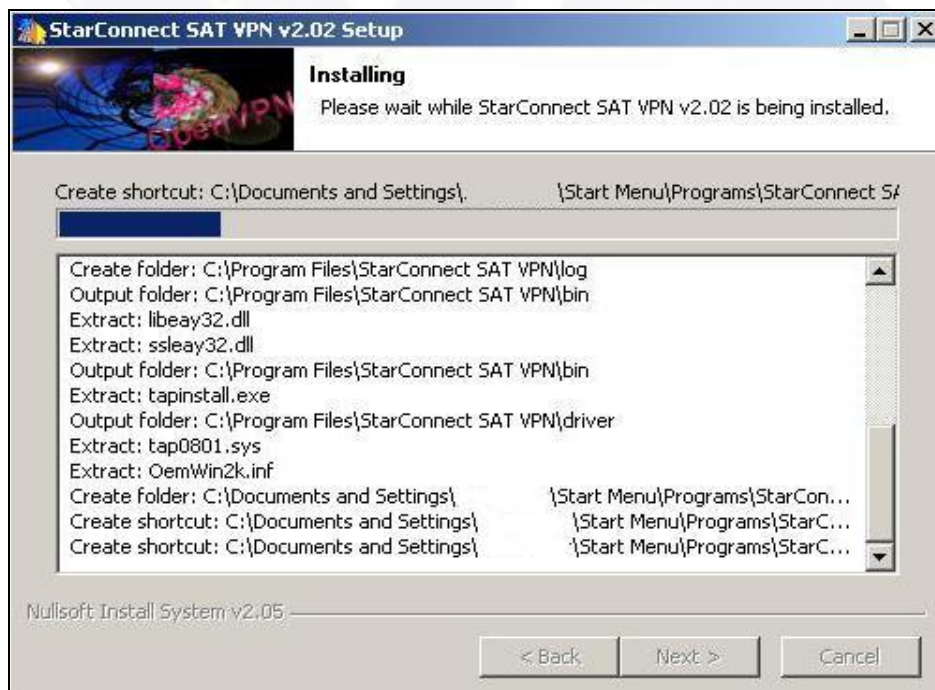


Figure 3-12

13. Select **Continue Anyway** when reported that the StarConnect Satellite VPN software has not passed Windows Logo testing as shown below in Figure 3-13.



Figure 3-13

- Once the StarConnect Satellite VPN software is installed, click Next to continue (Figure 3-14).

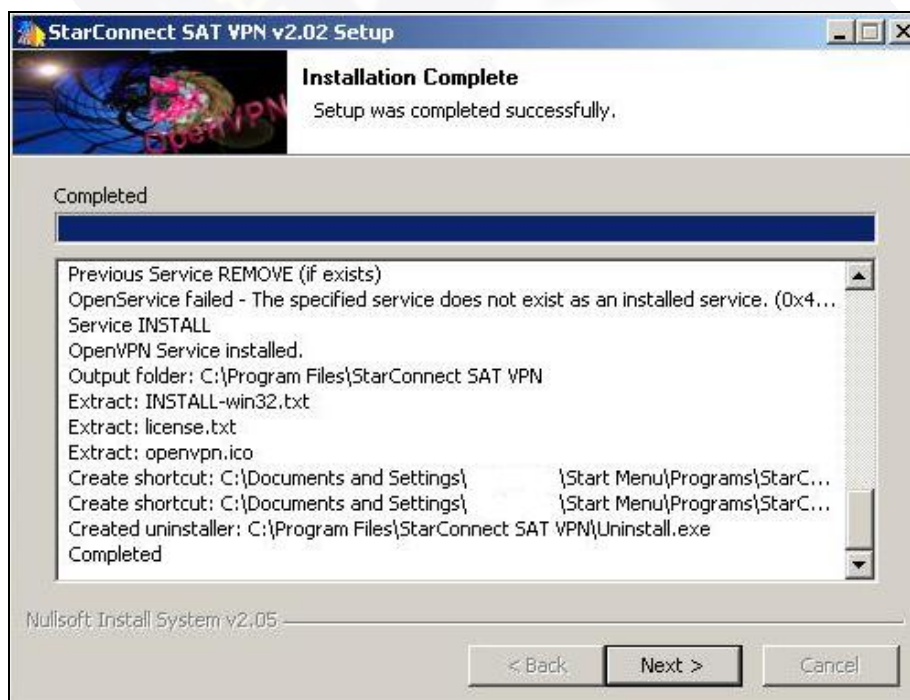


Figure 3-14

- Click **Finish** to complete the software installation (Figure 3-15).



Figure 3-15

16. After the software installation is completed, you must restart your computer for the software to take effect. Remove the CD from the CD Rom Drive at this time and click **Finish** (Figure 3-16).

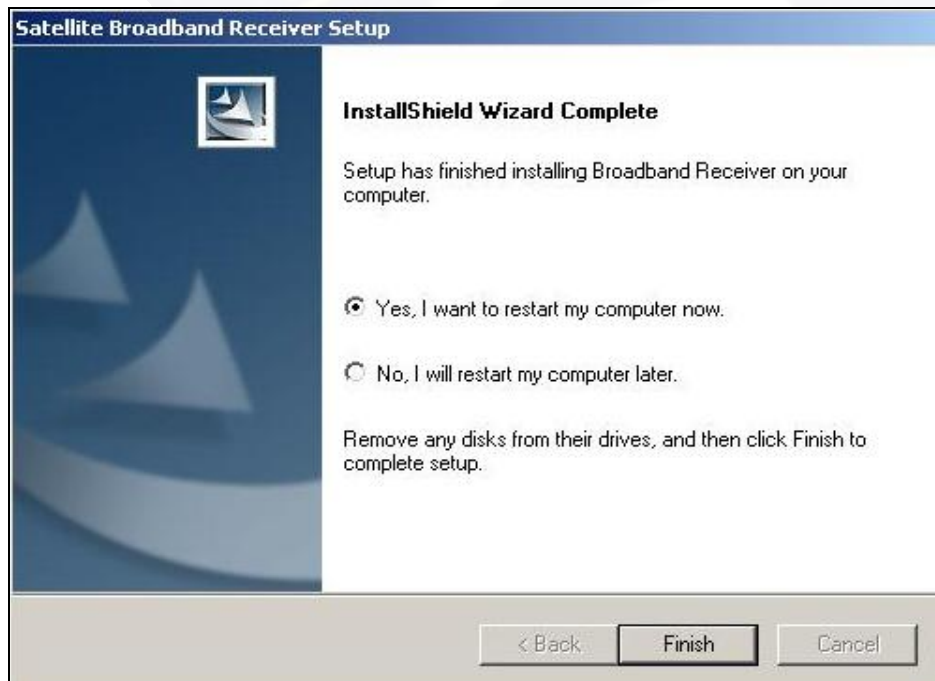


Figure 3-16

4 Entering Settings

Changing Transponder Frequencies

Note: This section was included in the manual for future changes – Do **NOT** change current settings at this time.

WARNING: It is necessary to follow this step-by-step procedure closely. Altering these settings out of sequence or entering invalid data can disable your satellite connection and necessitate a software reinstall.

1. Double left click your mouse button on the round satellite signal (either red or green) next to the clock on the Task Bar (Figure 4-1).

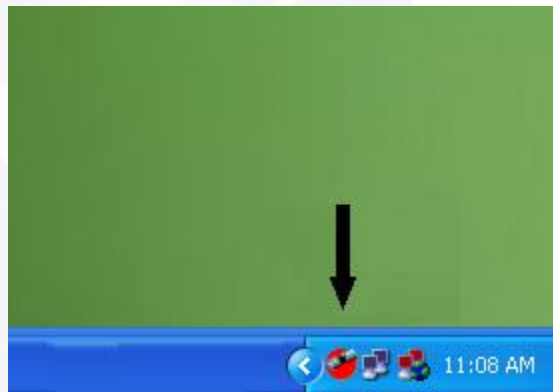


Figure 4-1

This will open your Setup4PC window as shown in Figure 4-2.

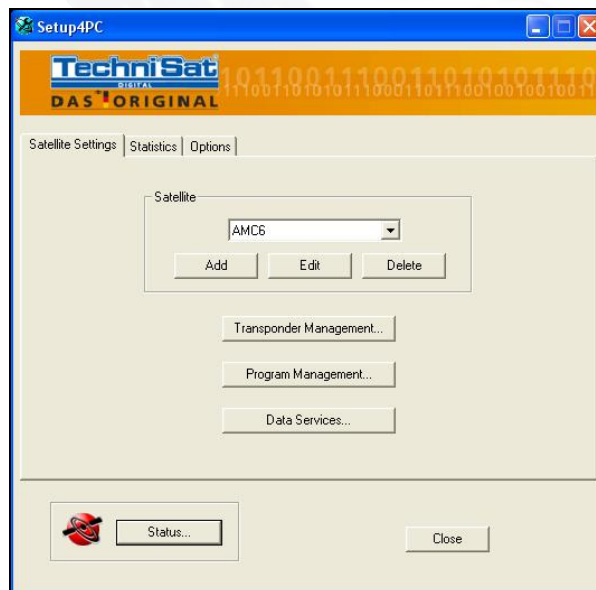


Figure 4-2

2. Left click your mouse on the **Transponder Management** button as shown in Figure 4-3.

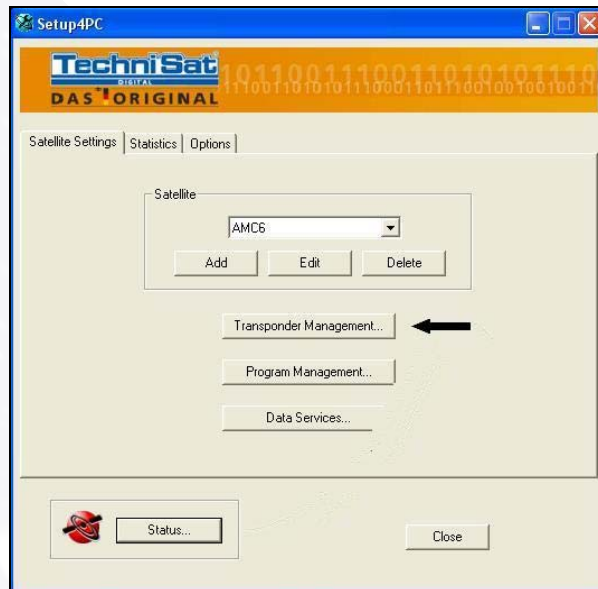


Figure 4-3

3. This will now open your **Transponder Management** window as shown in Figure 4-4.

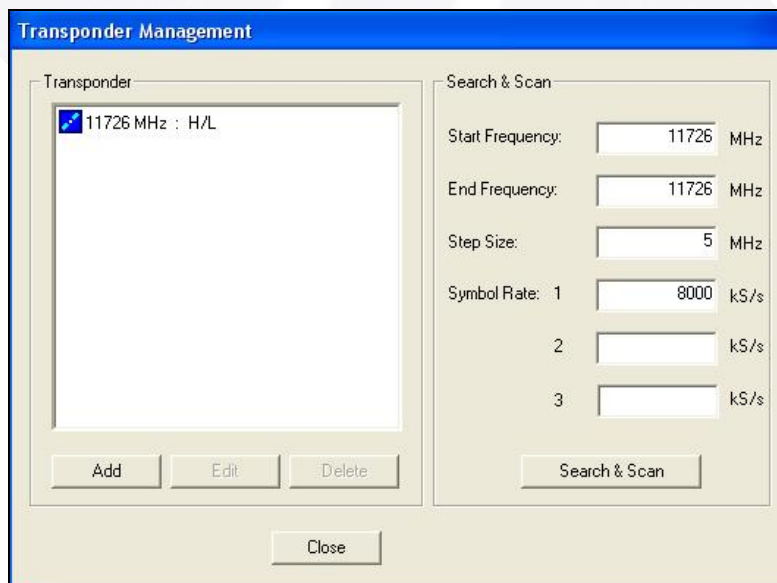


Figure 4-4

4. Now highlight the transponder in the **Transponder** window on the upper left, then left click on **Edit** (Figure 4-5).

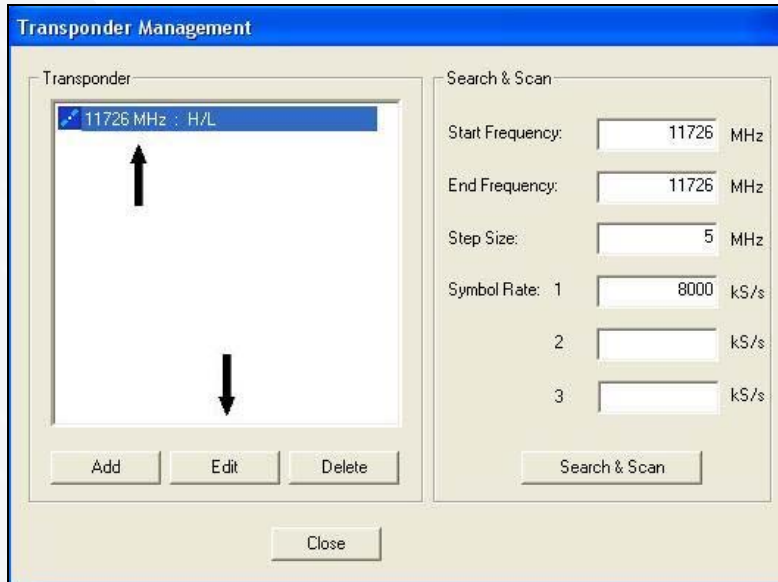


Figure 4-5

5. This will now show your **Edit Transponder** window. Please check to make sure that the **Transponder** is set to 11726, the **Symbol Rate** is set to 8000, the **FEC** is set to $\frac{3}{4}$ and the **Polarity** is set to Horizontal/Left (High). If any of your settings are different, please change them now to the correct settings (Figure 4-6).

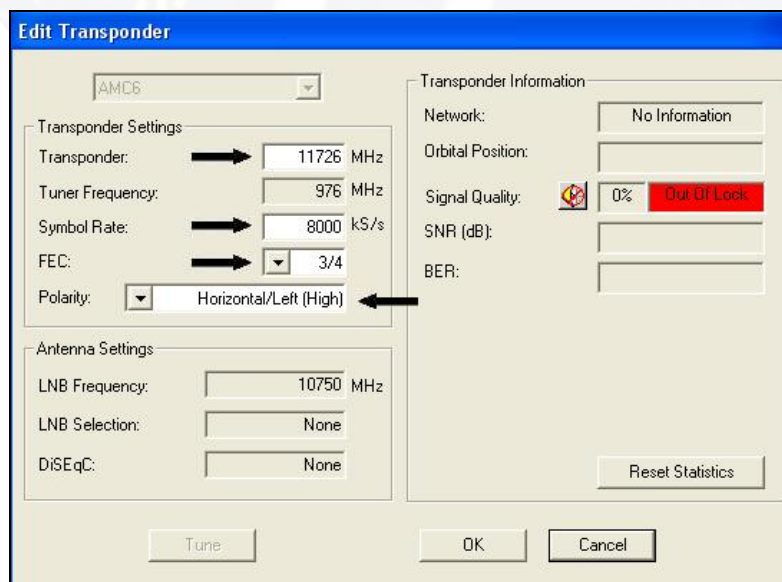


Figure 4-6

6. If you have to make any changes, this will highlight the **Tune** button (Figure 4-7). If you didn't have to make any changes, just retype the **Transponder** to highlight the **Tune** button. Left click on the **Tune** button after making your changes and the **Network** will change from No Information to Acquiring.... After the **Network** changes back to No Information, right click on the round satellite signal (either red or green) in the Task Bar next to the clock and then left click on **AMC-6 :: StarConnect** (Figure 4-8).

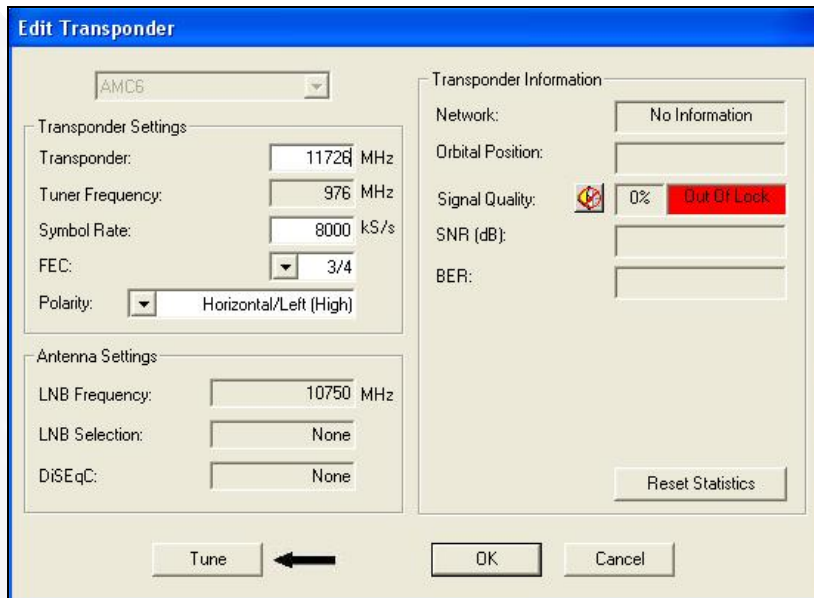


Figure 4-7



Figure 4-8

7. Now go back to the **Edit Transponder** window and left click on **OK** as shown in Figure 4-9.

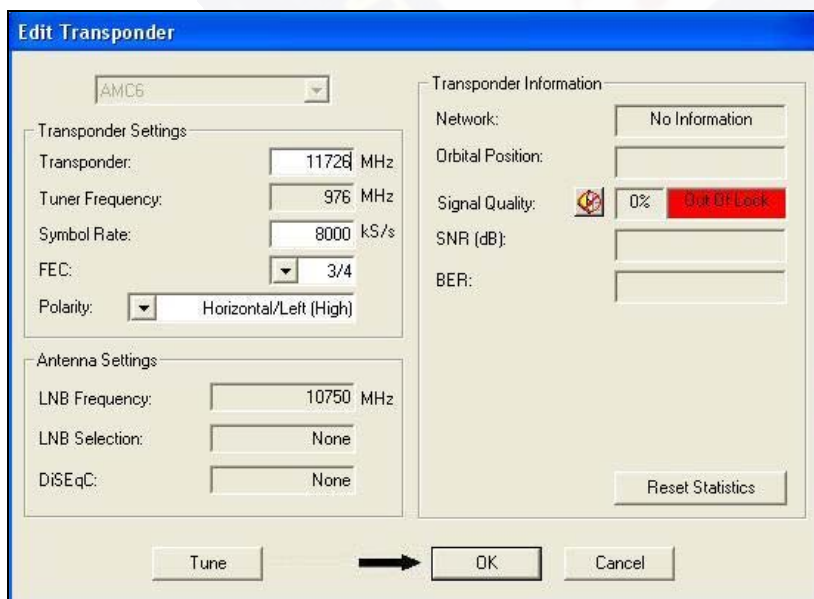


Figure 4-9

8. You will now be on the **Transponder Management** window. Check to make sure that the **Start Frequency** and the **End Frequency** both have a value of 11726 in the boxes and the **Symbol Rate 1** has a value of 8000 in the box. If any are different, please change them at this time as shown in Figure 4-10.

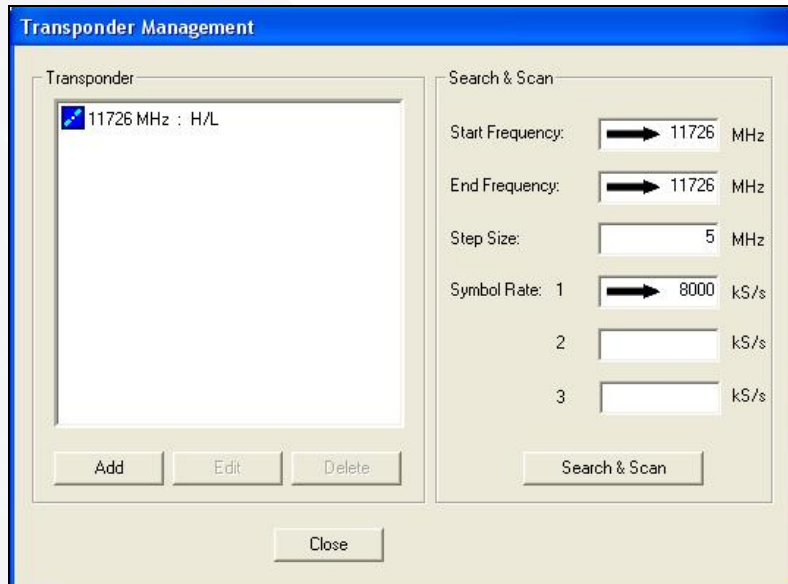


Figure 4-10

9. Now right click on the round satellite in the Task Bar next to the clock. This will bring up a menu. Left click on AMC-6 :: StarConnect as shown in Figure 4-11.



Figure 4-11

10. Now left click on **Close** to close the **Transponder Management** window (Figure 4-12).

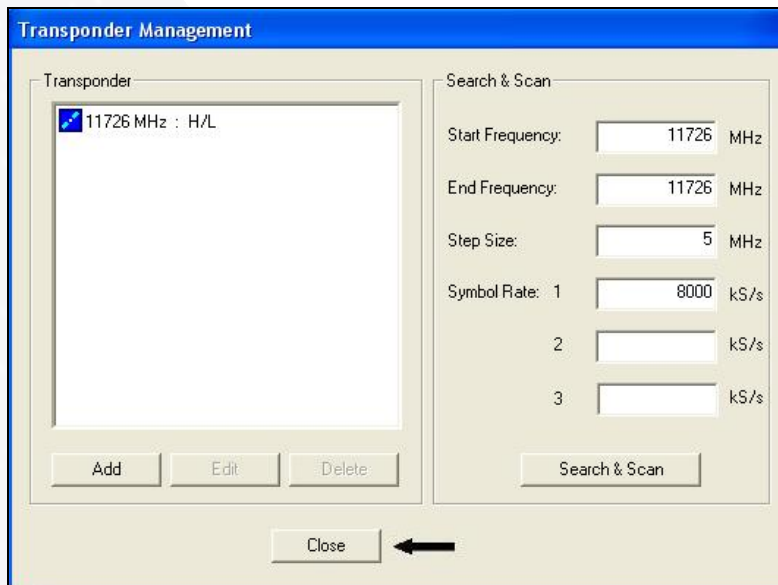


Figure 4-12

11. Now left click your mouse on the Status button as shown in Figure 4-13.

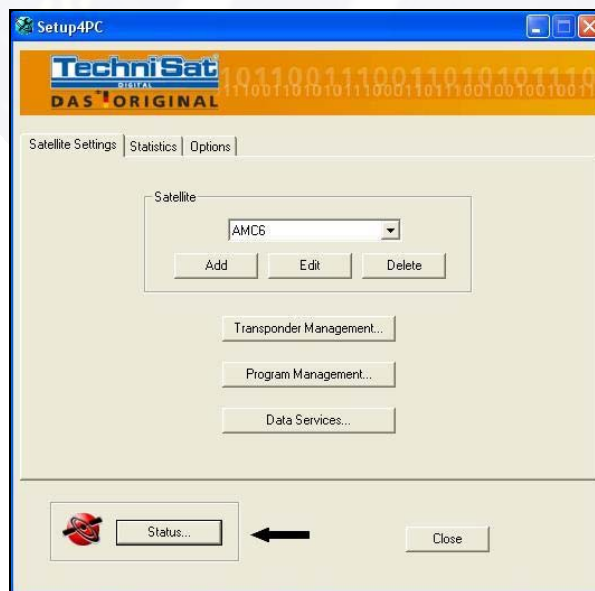


Figure 4-13

11. The **Transponder Status** window will open. Left click your mouse button on the Down Arrow to the right of the **Current Settings** window (upper left side of Transponder Status window) and left click on **Manual Settings** (Figure 4-14).

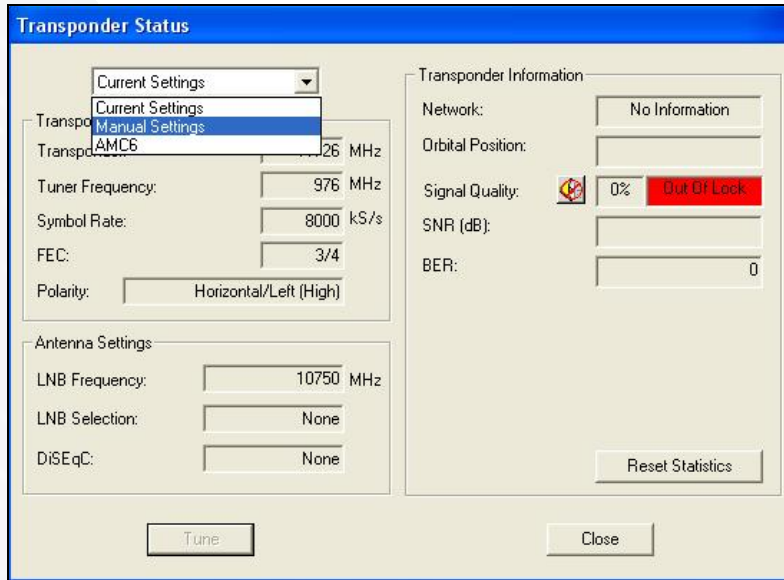


Figure 4-14

12. Once you select manual Settings, change the **Transponder** to 11726, change the **Symbol Rate** to 8000, change the **FEC** to $\frac{3}{4}$ and the **Polarity** should be Horizontal/Left (High) as shown in Figure 4-15.

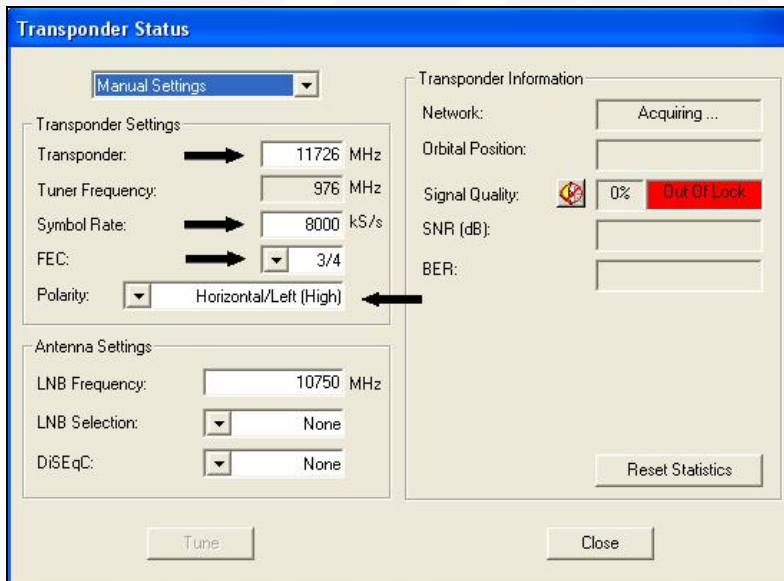


Figure 4-15

13. After making the above changes, the **Tune** button will light up (Figure 4-16). If your settings are correct, just retype the **Transponder** so that the **Tune** button lights up. Left click on the **Tune** button. Under the **Transponder Information** the Network box will change from No Information to Acquiring....

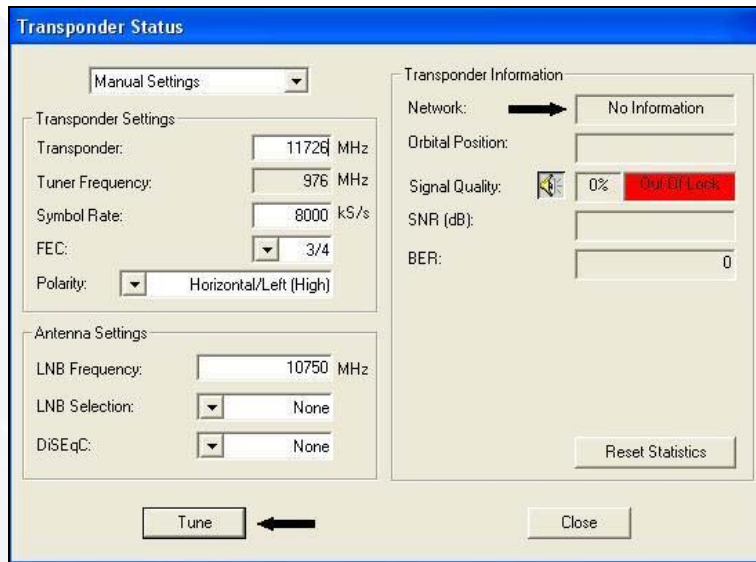


Figure 4-16

14. Once the **Network** box changes back to No Information (Figure 4-16) right click on the round signal (either red or green) in the Task Bar next to the clock (Figure 4-17).

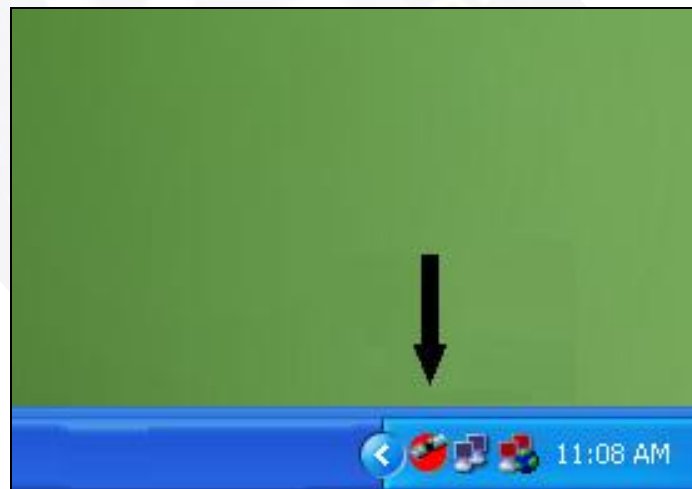


Figure 4-17

15. This will open a menu as shown in Figure 4-18. Left click once on the **AMC-6 :: StarConnect** item (Figure 4-19)



Figure 4-18



Figure 4-19

16. Now click **Close** on the **Transponder Status** window (Figure 4-20).

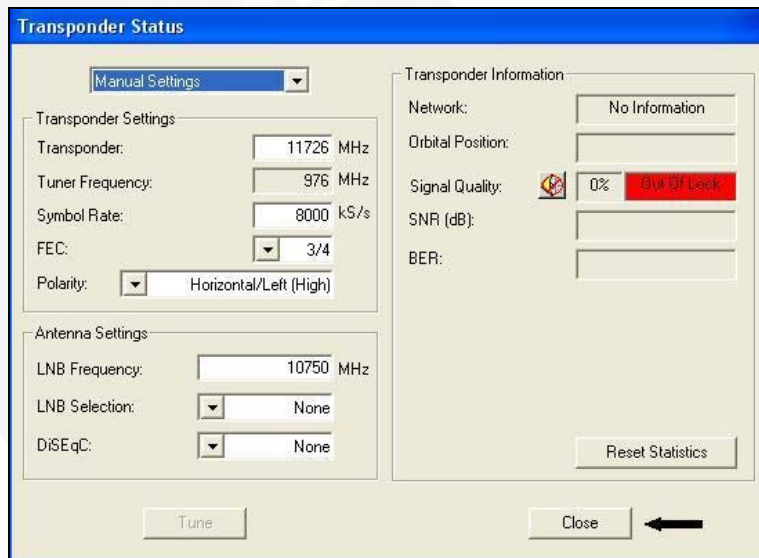


Figure 4-20

17. Now left click on **Close** to close the **Setup4PC** window (Figure 4-21).

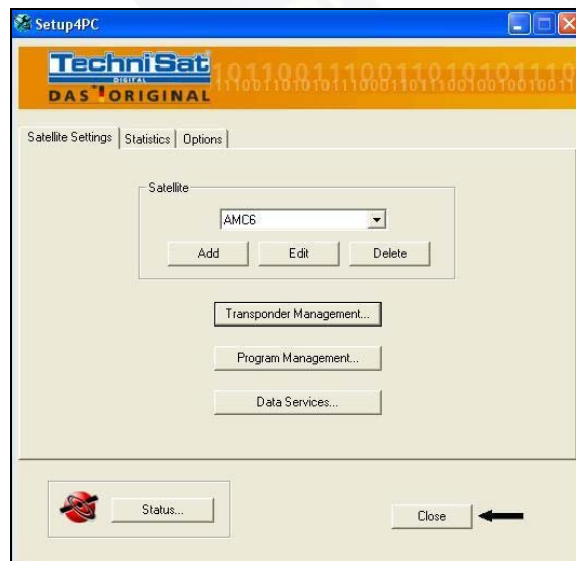


Figure 4-21

Editing User Information

1. Right click on the double red computer screens in the Task Bar next to the clock (Figure 4-22).



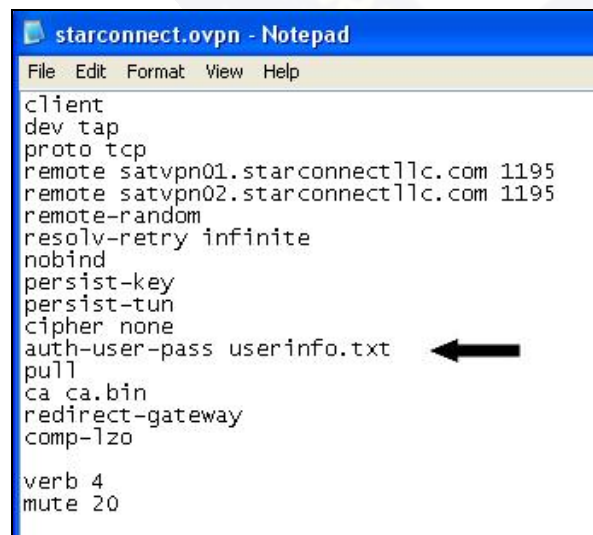
Figure 4-22

2. You will see a menu pop up, as in Figure 4-23. Left click on **Edit Config**.



Figure 4-23

3. Once your **Edit Config** window is open (Notepad file), you will be changing the seventh line from the bottom (line with arrow). Type your line to match **EXACTLY** as the line in Figure 4-24. **NOTE: Notice that there is one space between the second “S” in pass and the “U” in userinfo.txt**

A screenshot of a Notepad window titled "starconnect.ovpn - Notepad". The window contains the following text:

```
client
dev tap
proto tcp
remote satvpn01.starconnectllc.com 1195
remote satvpn02.starconnectllc.com 1195
remote-random
resolv-retry infinite
nobind
persist-key
persist-tun
cipher none
auth-user-pass userinfo.txt
pull
ca ca.bin
redirect-gateway
comp-lzo

verb 4
mute 20
```

A black arrow points to the line "auth-user-pass userinfo.txt", which is the seventh line from the bottom of the file.

Figure 4-24

4. Next, left click on **File** and then left click on **Save**. Once the file is saved, left click on **File** again and then left click on **Exit** (Figure 4-25).

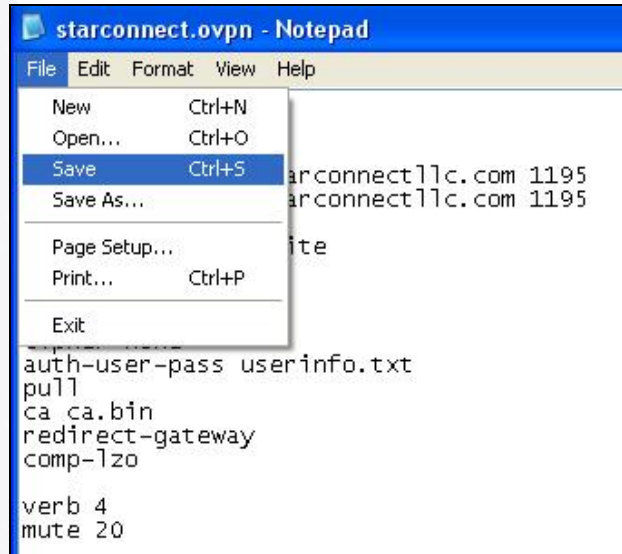


Figure 4-25

5. Next left click on the **Start** button, hold your mouse over **All Programs** and let it expand out, then hold your mouse over the **StarConnect SAT VPN** folder and let it expand out, then highlight **StarConnect SAT VPN configuration file directory** and left click on it (Figure 4-26). This will open a File Folder as shown in Figure 4-27. Double left click on the **userinfo.txt** file.

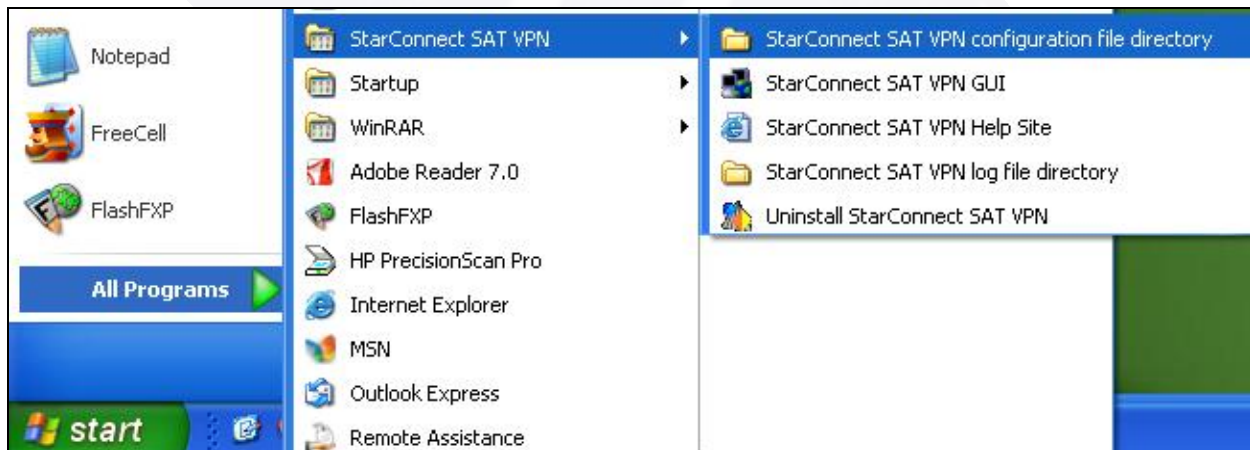


Figure 4-26

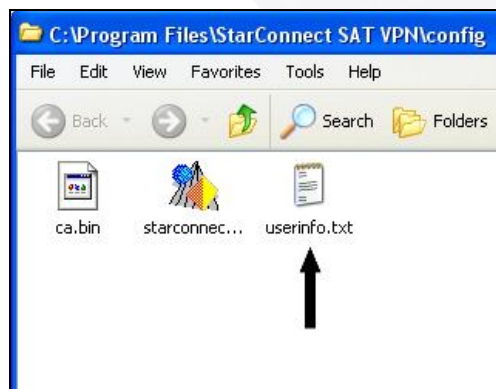


Figure 4-27

6. Once your **userinfo.txt** file opens in Notepad, hold down the Delete key until both lines disappear. Then, you will need to change the first two lines to reflect **EXACTLY** what is in Figure 4-28. The **yourusername** you will change to your actual username assigned to you and **yourpassword** you will change to your actual password assigned to you. Please type everything in lowercase. Also, please double check your typing and spelling as this is critical for logging onto the satellite.

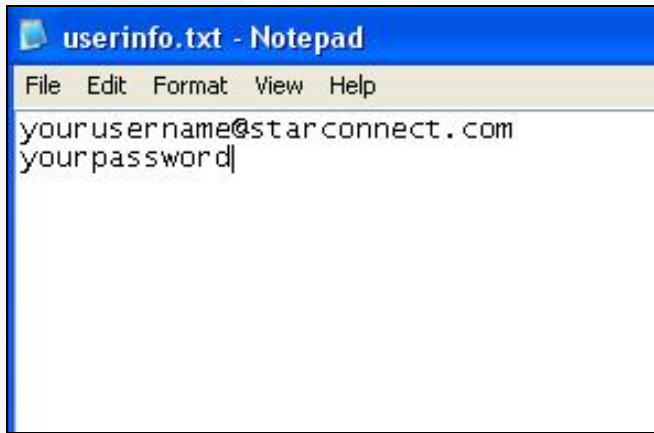


Figure 4-28

7. Now, left click on **File** and then left click on **Save** to save the information you just typed (Figure 4-29).

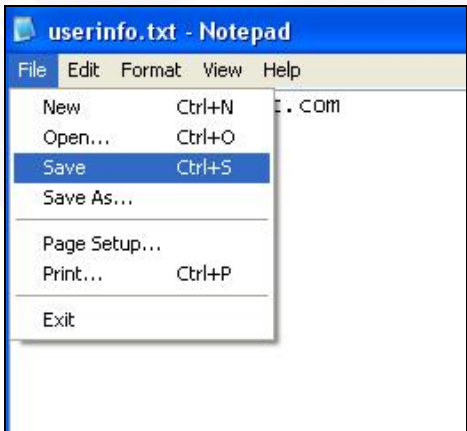


Figure 4-29

8. Once you save the file, next left click on **File** again and then click on **Exit** to close the file.

Editing User Settings

1. Double left click your mouse button on the round satellite signal (either red or green) next to the clock on the Task Bar (Figure 4-30).

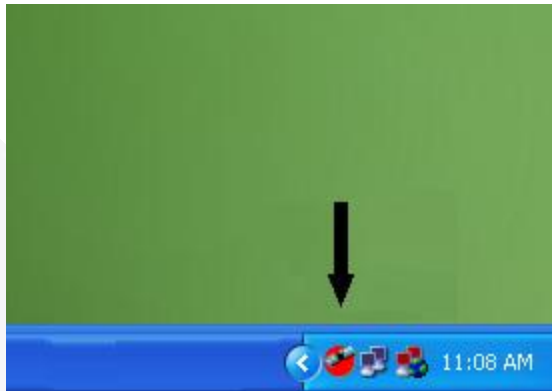


Figure 4-30

2. This will open your Setup4PC window as shown in Figure 4-31.

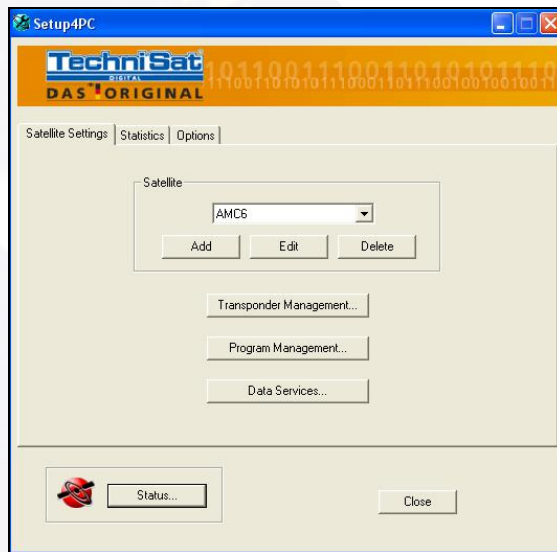


Figure 4-31

3. Left click you mouse on the **Data Services** button as shown in Figure 4-32.

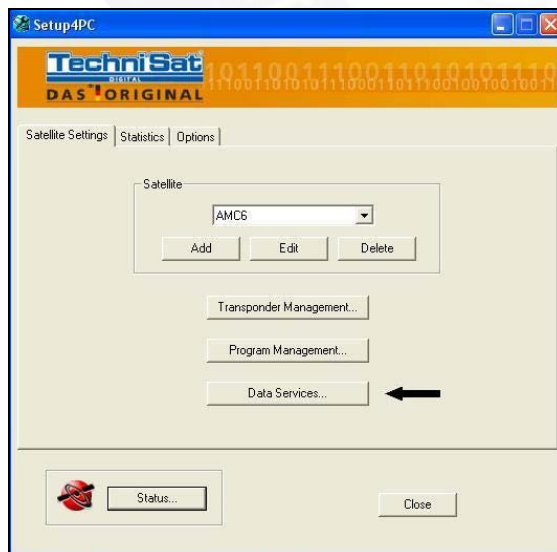


Figure 4-32

4. This will bring up the **Data Services** window as shown in Figure 4-33. First check to make sure that the **MAC Source** is set to **User Defined IP**. If it isn't, left click on the down arrow to display a drop down menu. Highlight **User Defined IP** and left click on it. Next, you will type in your IP address, which was provided to you when you first called in after receiving your equipment. Please type it in carefully as this is critical for proper operation. Finally, you will type **AE** for the **MAC Address** location (Figure 4-33). Once this is completed, left click on the **Apply** button, then on the **OK** button to close the window (Figure 4-34).

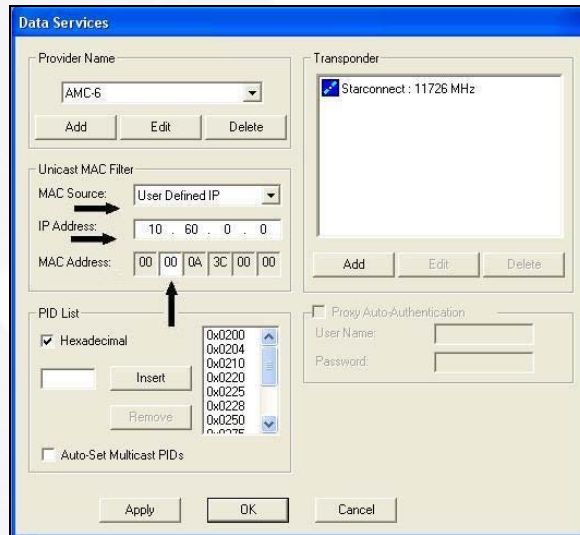


Figure 4-33

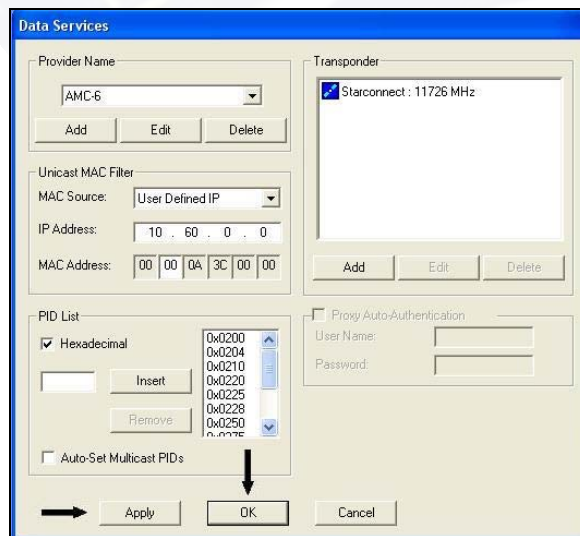


Figure 4-34

5. Finally, left click on **Close** on the **Setup4PC** window (Figure 4-35).



Figure 4-35

5 Dial-up Setup

Windows XP

1. To create a dial-up connection in Windows XP, begin by left clicking on **Start** and then highlight the **Control Panel** (Figure 5-1). Left click on it. This will open your **Control Panel** window (Figure 5-2).



Figure 5-1

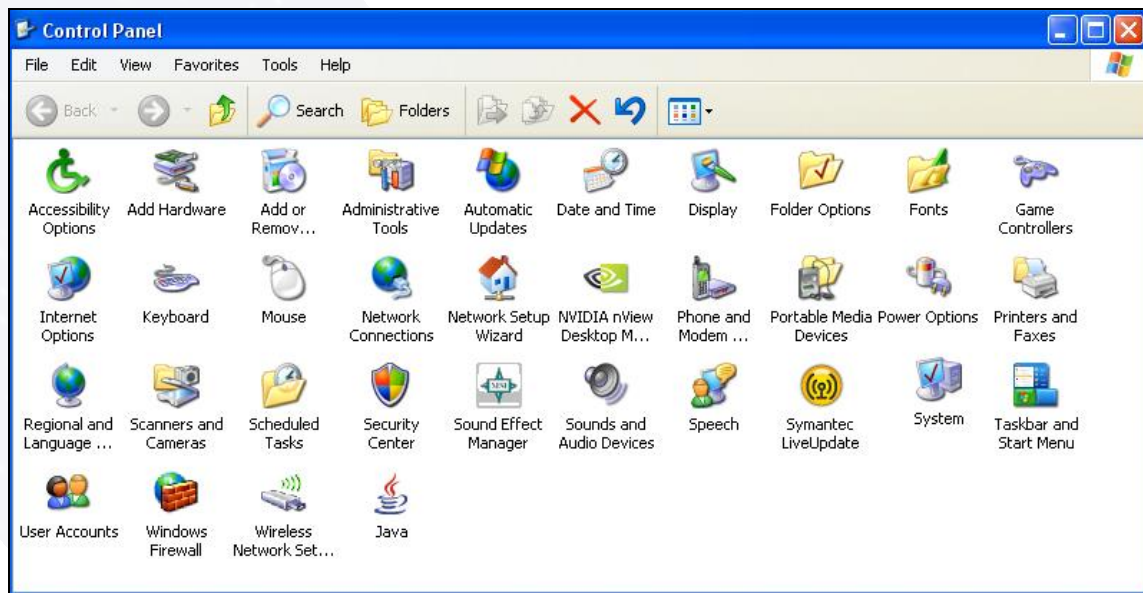


Figure 5-2

2. Next, double left click on **Internet Options** (Figure 5-3).

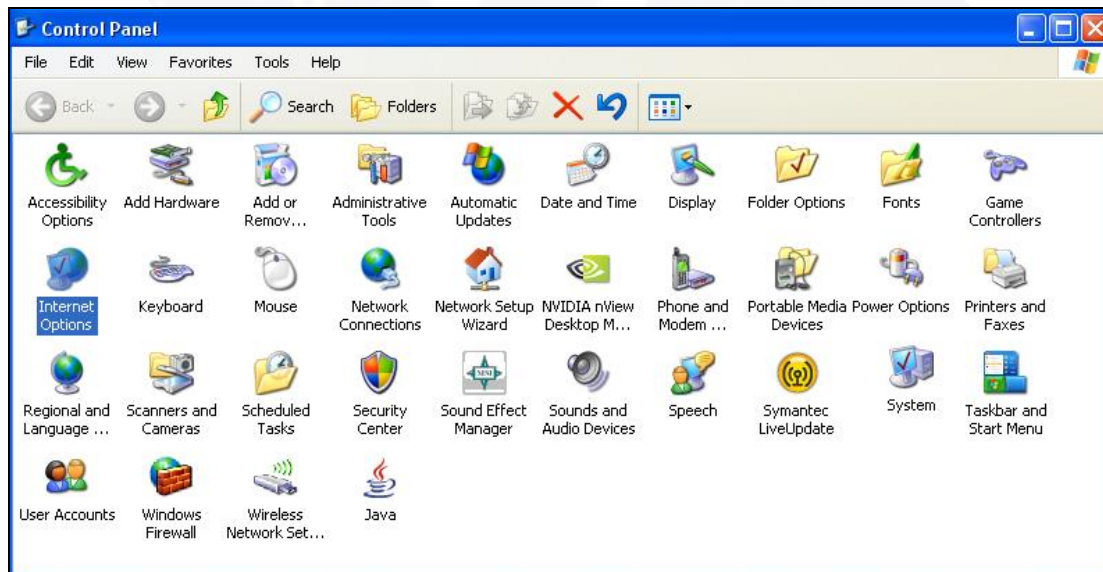


Figure 5-3

3. Once your **Internet Options** window is open, left click on the **Connections** Tab across the top (Figure 5-4). This will open a window as shown in Figure 5-5.



Figure 5-4

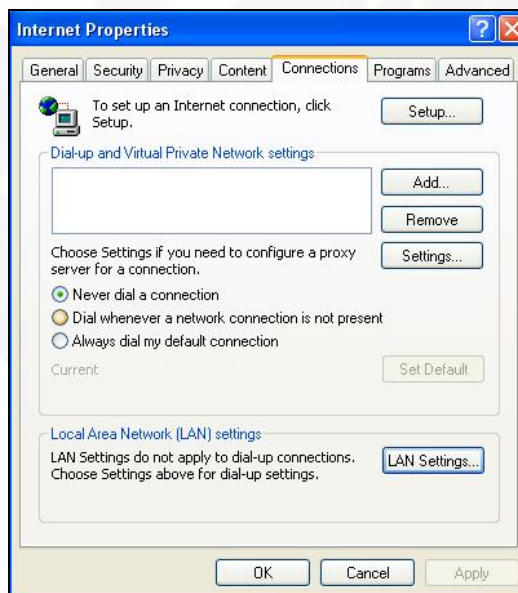


Figure 5-5

4. If you have any dial-up connection(s) currently set up in the **Dial-up and Virtual Private Network Settings** box, you must remove it (them all) at this time. To remove, left click on the connection to highlight it, then left click on the **Remove** button (Figure 5-6).

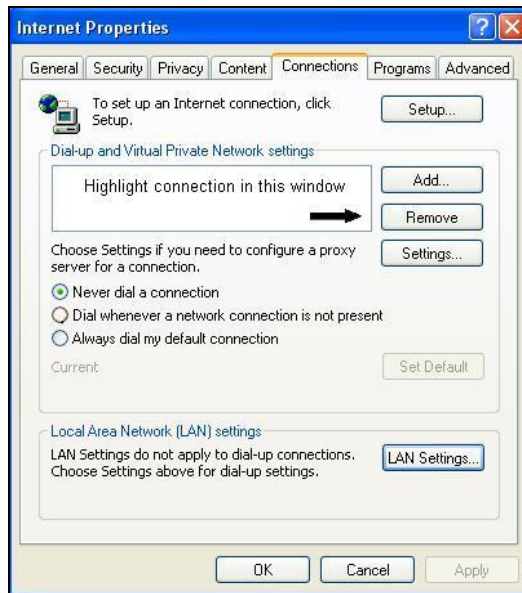


Figure 5-6

5. Once they are all removed, click on the **Add** button to create a new dial-up for NRBB as shown in Figure 5-7.



Figure 5-7

6. The **New Connection Wizard** window will open. Select **Dial-up to private network** and then left click on **Next** (Figure 5-8).

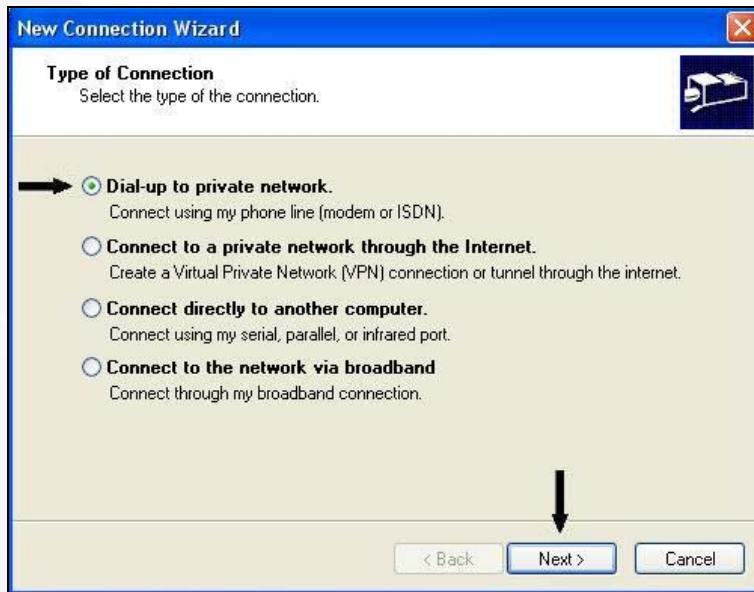


Figure 5-8

7. Enter the phone number provided to you (local dial-up number) and then left click on **Next** as shown in Figure 5-9.

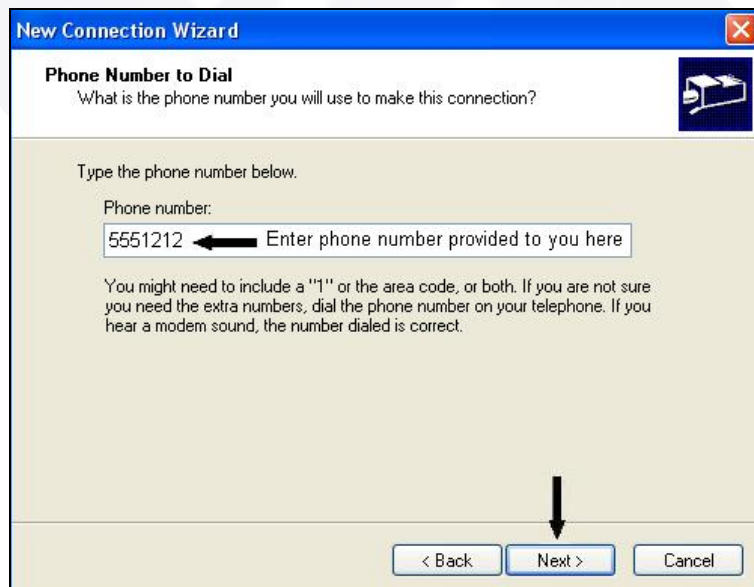


Figure 5-9

8. The next window will open as shown in Figure 5-10. Hit the DELETE key to remove the dial-up connection already in the box.



Figure 5-10

9. Now you will type your connection name in this box and then left click on **Finish** (Figure 5-11).



Figure 5-11

10. Check to make sure that no boxes are checked in this window. If any boxes are checked, please uncheck them at this time. Then left click on **OK** (Figure 5-12).

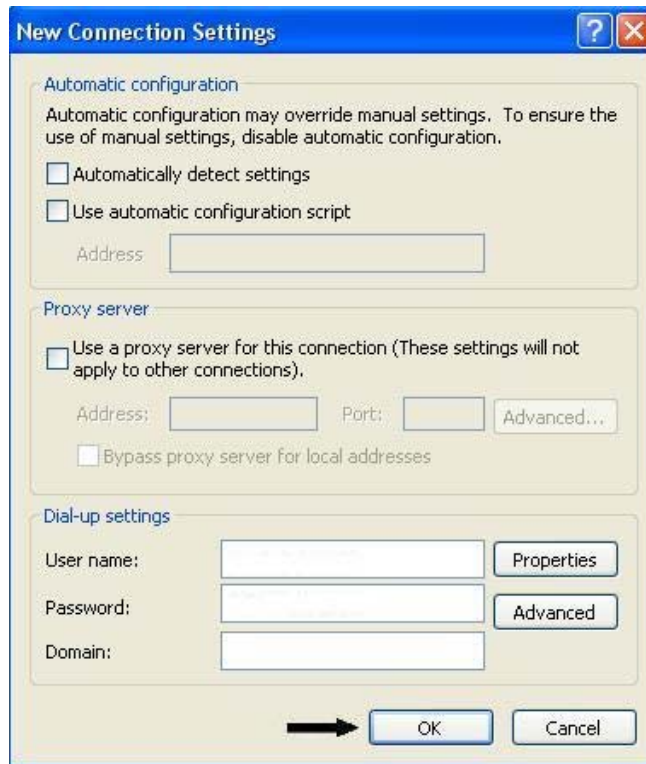


Figure 5-12

11. Next, select the radio button which states **Never dial a connection** as shown in Figure 5-13.



Figure 5-13

12. Now click on **LAN Settings** as shown in Figure 5-14.

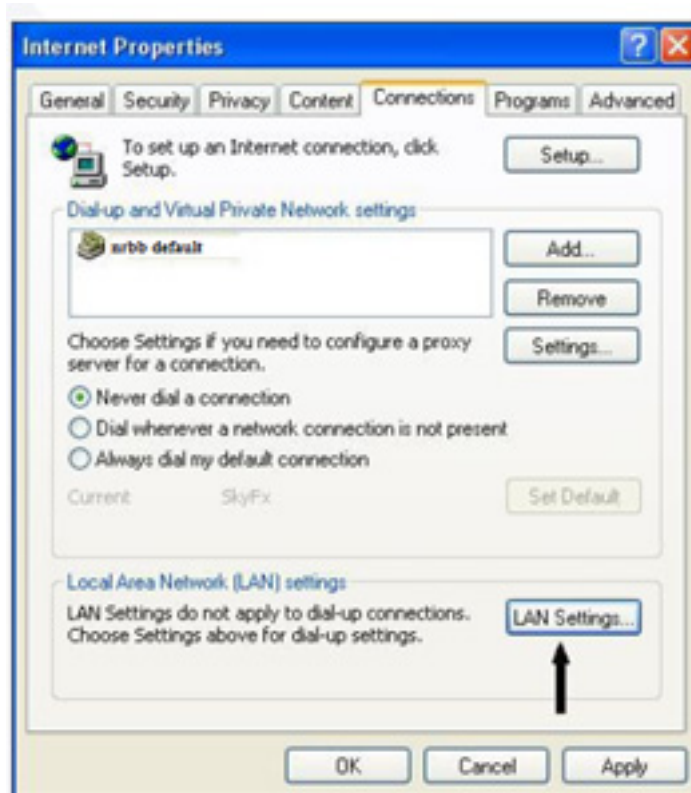


Figure 5-14

13. Check to make sure that no boxes are checked in this window. If any boxes are checked, please uncheck them at this time. Then left click on **OK** (Figure 5-15).

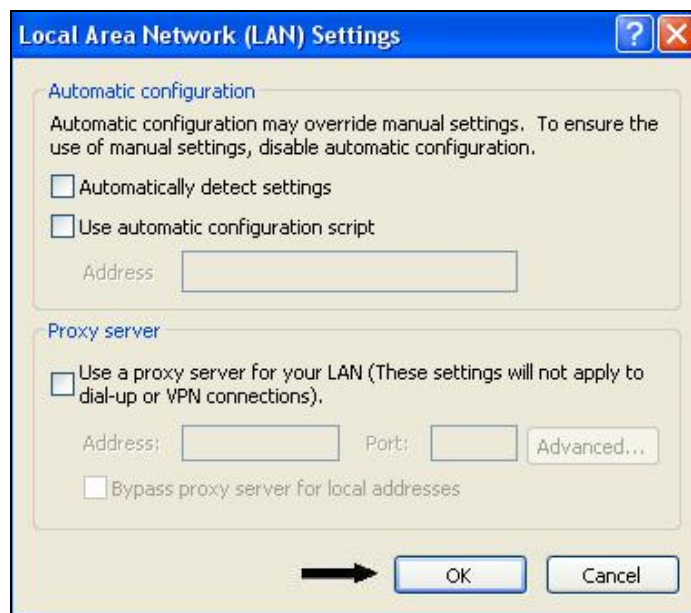


Figure 5-15

14. First left click on **Apply** to save the settings, then left click **OK** to close the window (Figure 5-16).



Figure 5-16

15. On your **Control Panel** double left click on **Network Connections** as shown in Figure 5-17.

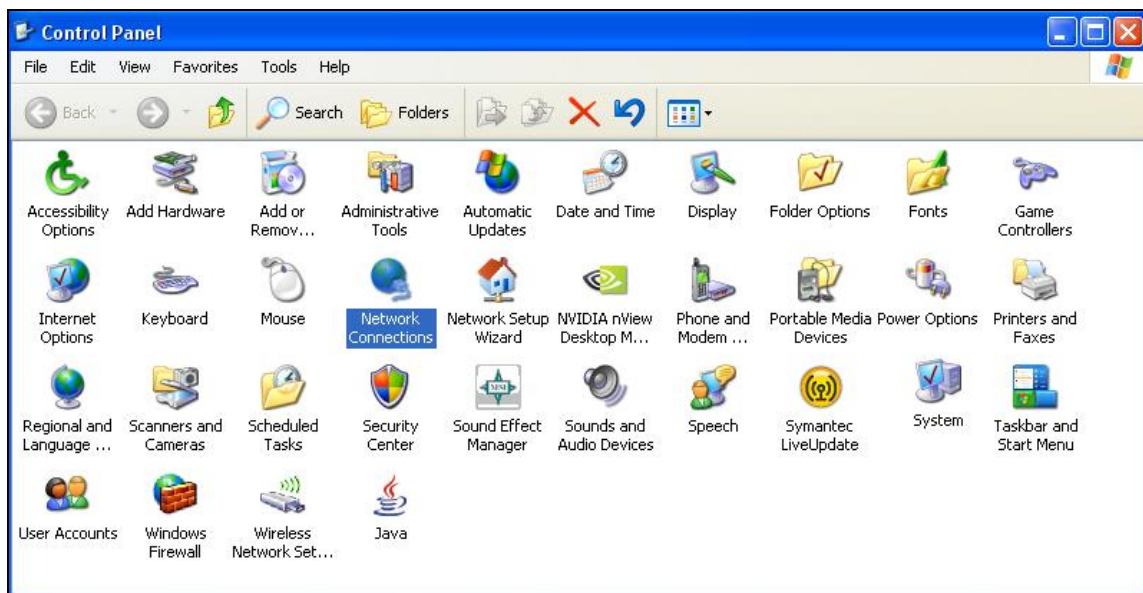


Figure 5-17

16. Right click on the NRBB under **Dial-up** in your **Network Connections** window. When the menu displays, highlight **Create Shortcut** and left click on it (Figure 5-18).

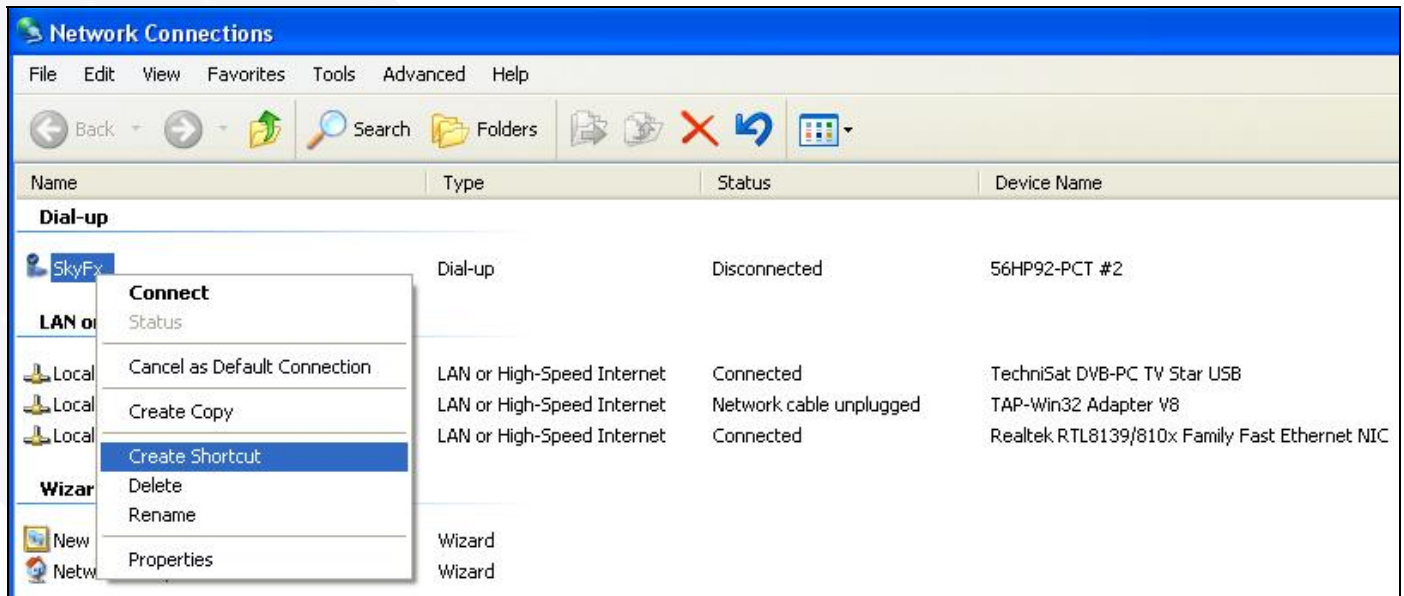


Figure 5-18

17. When Windows XP asks if you want to create the shortcut on your desktop, left click **Yes** as shown in Figure 5-19.



Figure 5-19

Your dial-up connection is now on your desktop for easier access when connecting to your dial-up service.

Editing Network Connections Settings

1. On the Network Connections window, look for the **Local Area Connection** that corresponds to your **TechniSat DVB-PV TV Star USB** connection as shown in Figure 5-20. Hold your mouse over the **Local Area Connection** that corresponds to your **TechniSat DVB-PV TV Star USB** and right click on it. This will bring up a menu. Left click on **Properties** (Figure 5-21).

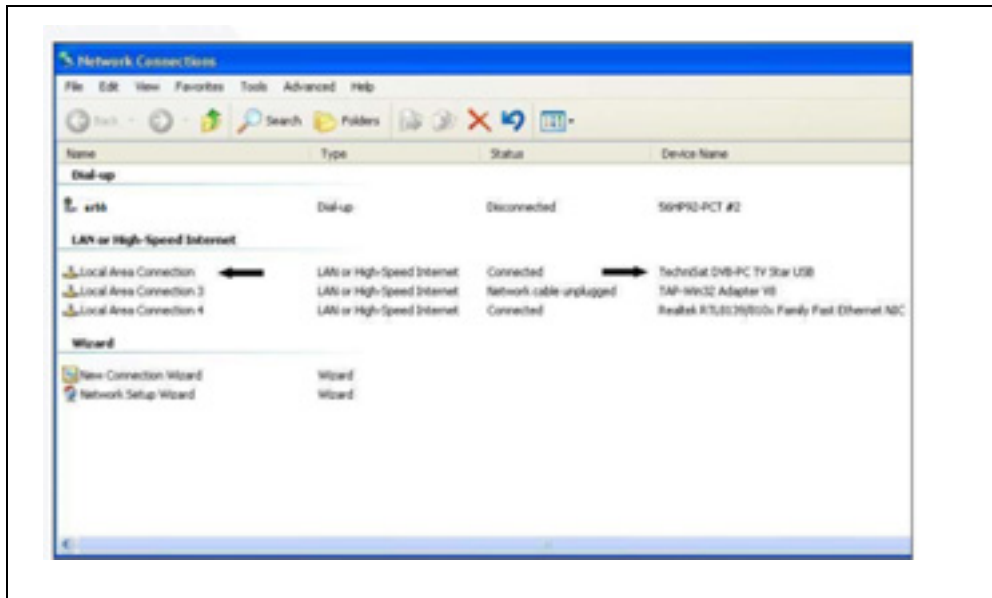


Figure 5-20

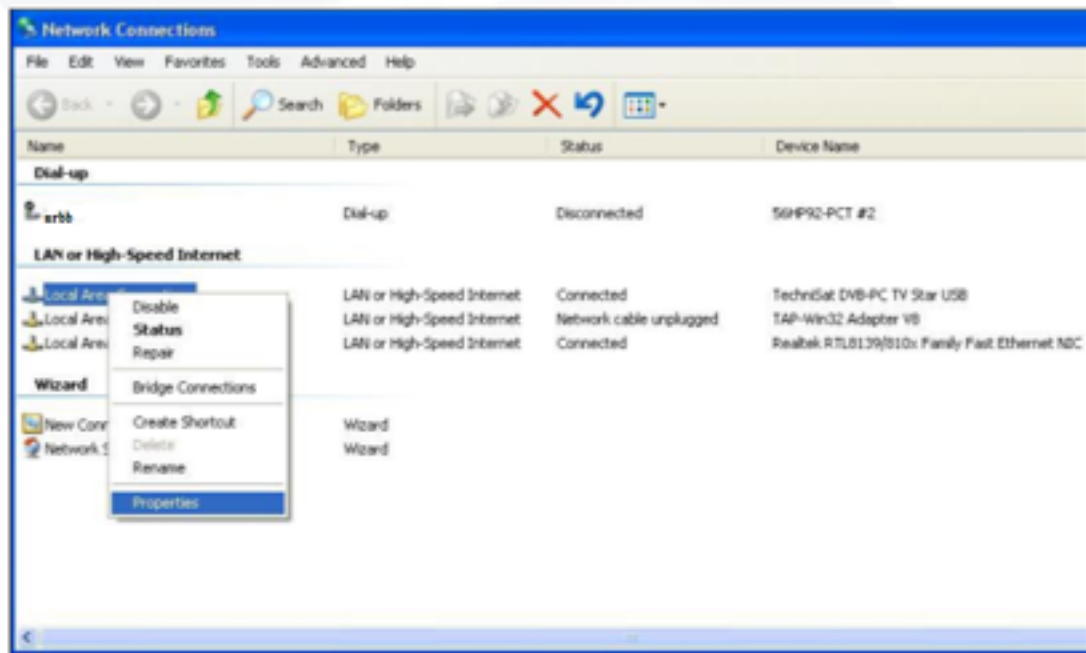


Figure 5-21

- Next make sure that your boxes are checked as shown, then highlight **Internet Protocol (TCP/IP)** and left click on **Properties** as shown in Figure 5-22.

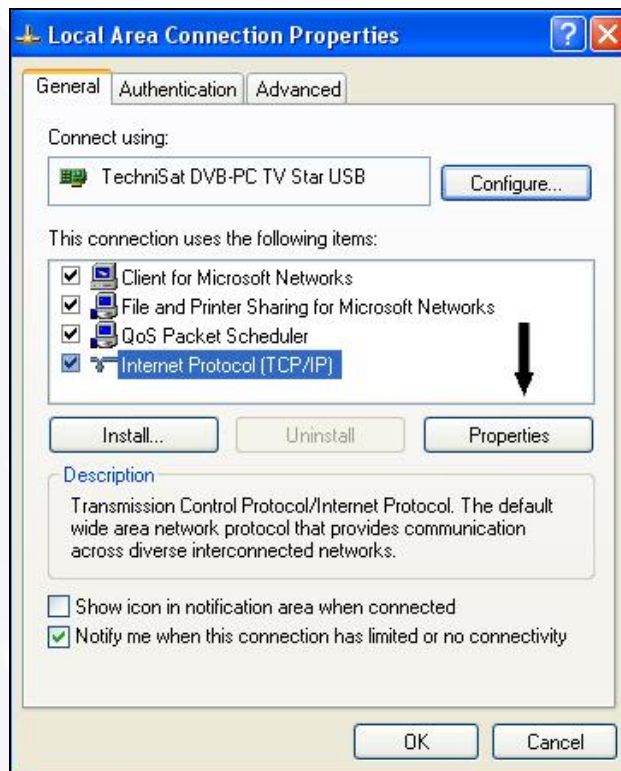


Figure 5-22

3. Check to make sure that your settings match **EXACTLY** those shown in Figure 5-23. If they do not match, please change them accordingly at this time. Then click **OK**.

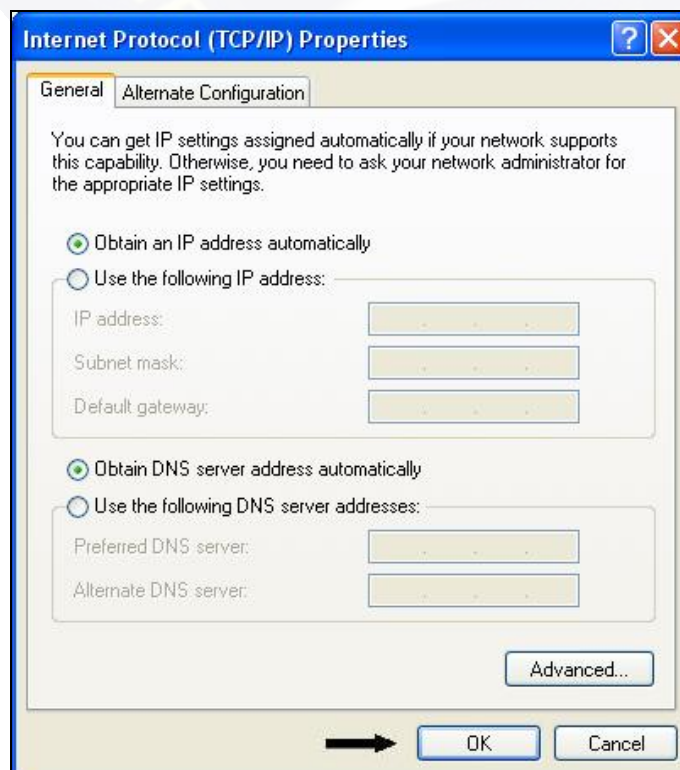


Figure 5-23

- Click **OK** on the **Local Area Connection Properties** window to close it (Figure 5-24).

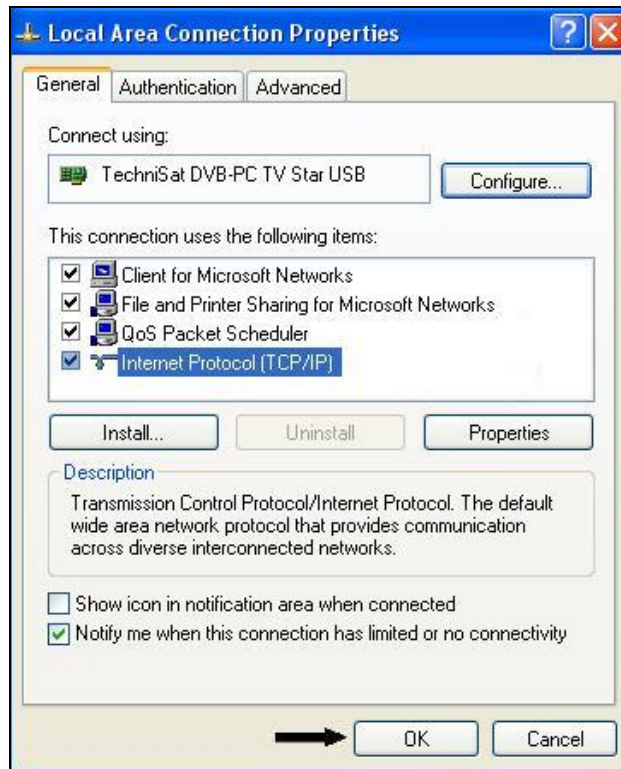


Figure 5-24

- On the Network Connections window, look for the **Local Area Connection** that corresponds to your **Tap-Win32 Adapter V8** connection as shown in Figure 5-25. Hold your mouse over the **Local Area Connection** that corresponds to your **Tap-Win32 Adapter V8** and right click on it. This will bring up a menu. Left click on **Properties** (Figure 5-26).

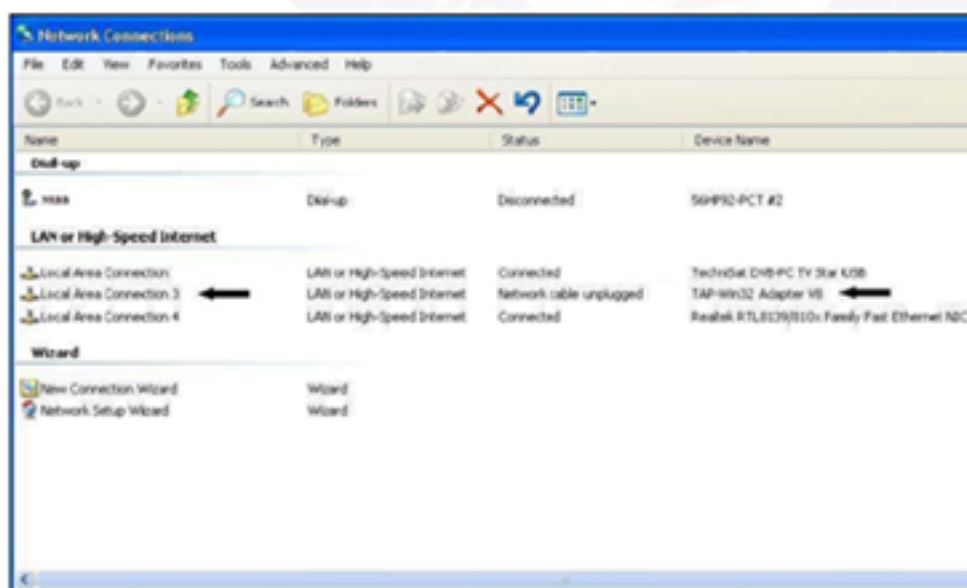


Figure 5-25

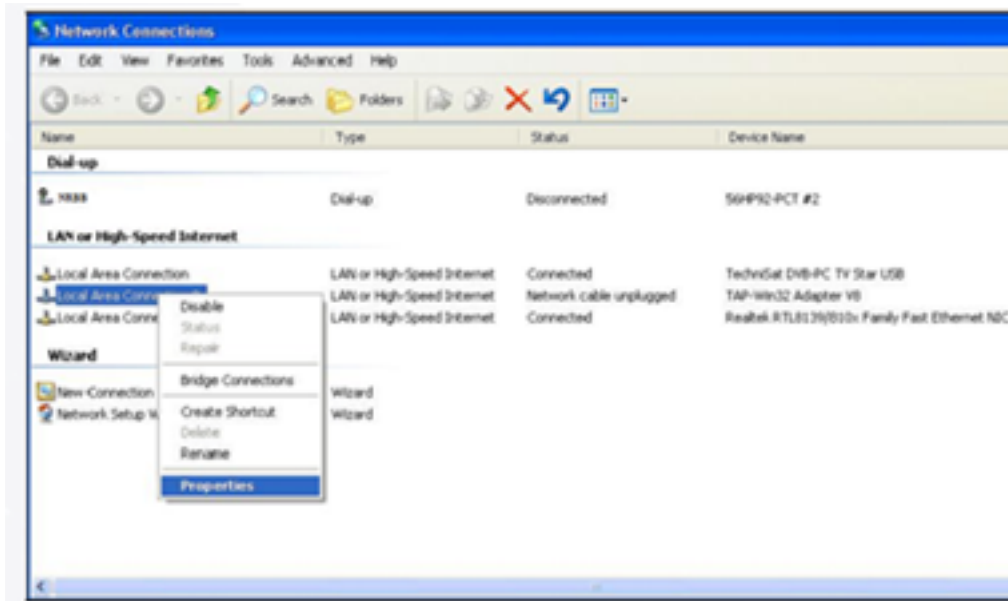


Figure 5-26

- Next make sure that your boxes are checked as shown, then highlight **Internet Protocol (TCP/IP)** and left click on **Properties** as shown in Figure 5-27.

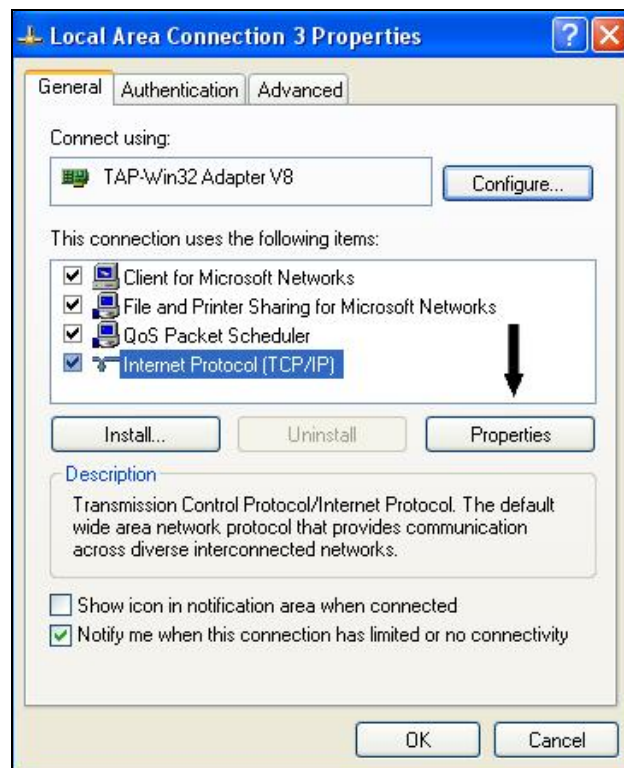


Figure 5-27

- Check to make sure that your settings match **EXACTLY** those shown in Figure 5-28. If they do not match, please change them accordingly at this time. Then click **OK**.

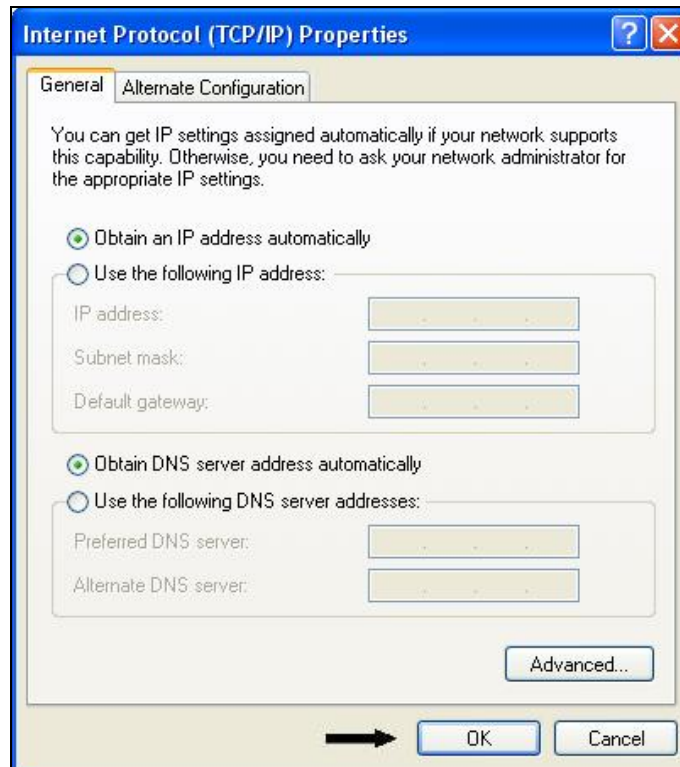


Figure 5-28

8. Click **OK** on the **Local Area Connection Properties** window to close it (Figure 5-29).

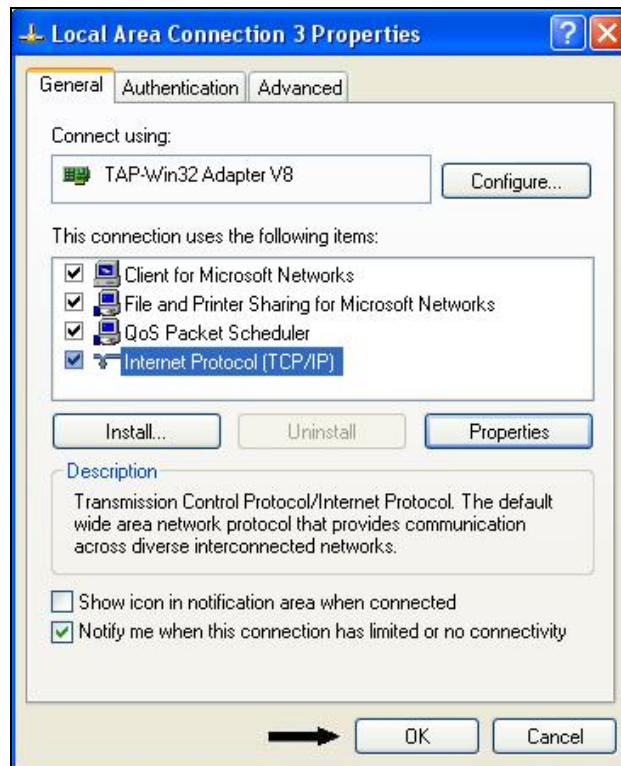


Figure 5-29

9. On the **Network Connections** window look for the **Dial-up Connection** as shown in Figure 5-30. Hold your mouse over the **NRBB Connection** and right click on it. This will bring up a menu. Left click on **Properties** (Figure 5-31).

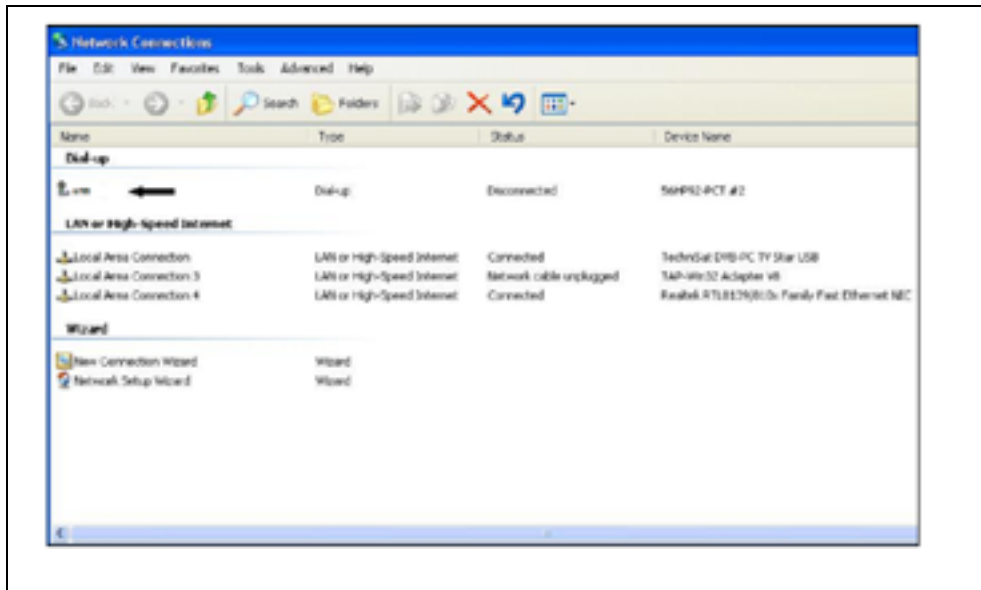


Figure 5-30

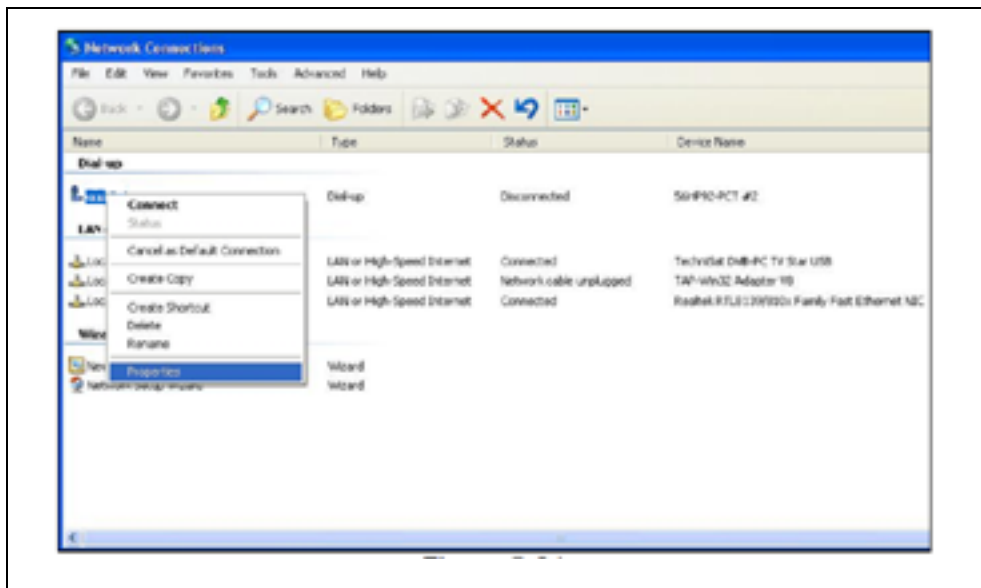


Figure 5-31

10. Next, select **Networking** on the tabs across the top on the **NRBB Properties** window as shown in Figure 5-32.

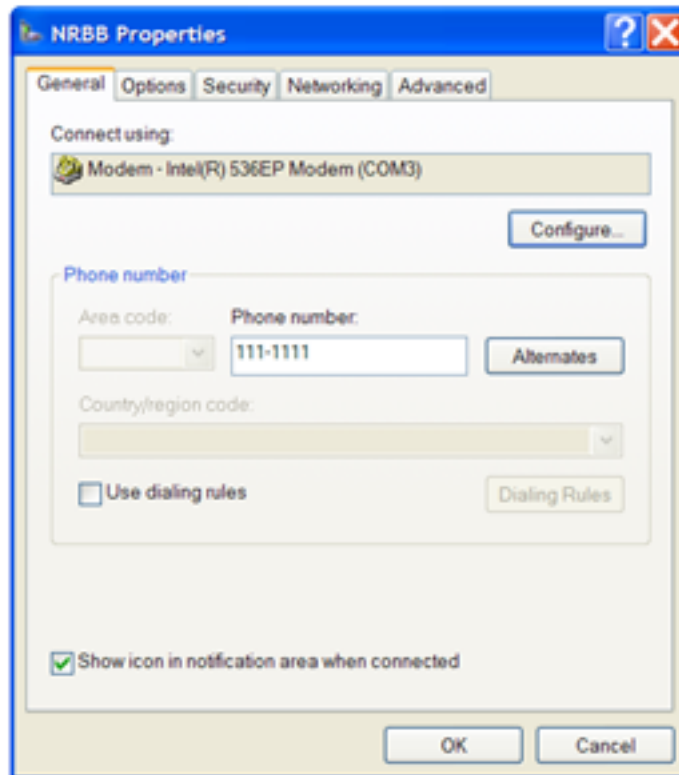


Figure 5-32

11. Next make sure that your boxes are checked as shown, then highlight **Internet Protocol (TCP/IP)** and left click on **Properties** as shown in Figure 5-33.

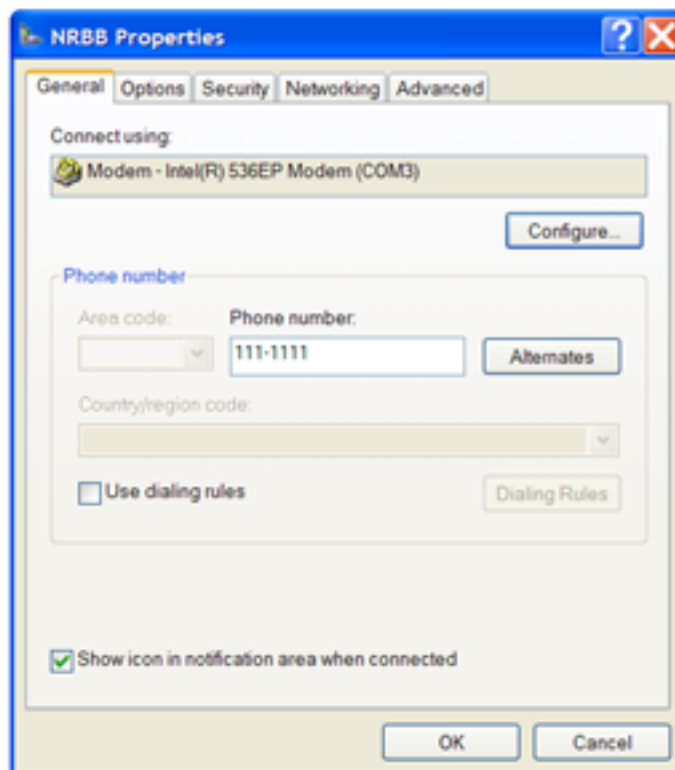
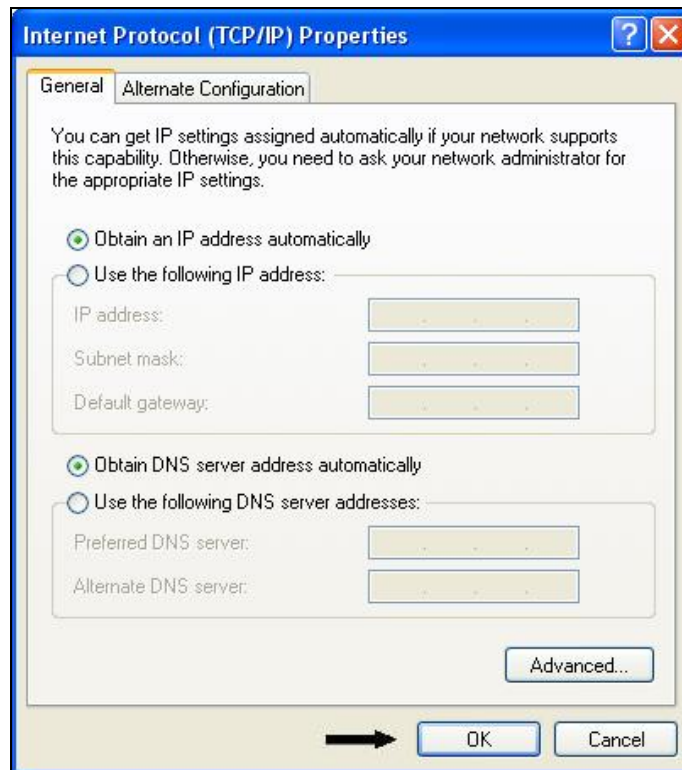


Figure 5-33

12. Check to make sure that your settings match **EXACTLY** those shown in Figure 5-34. If they do not match, please change them accordingly at this time. Then click **OK**.



5-34

13. Click **OK** on the NRBB **Properties** window to close it (Figure 5-29).

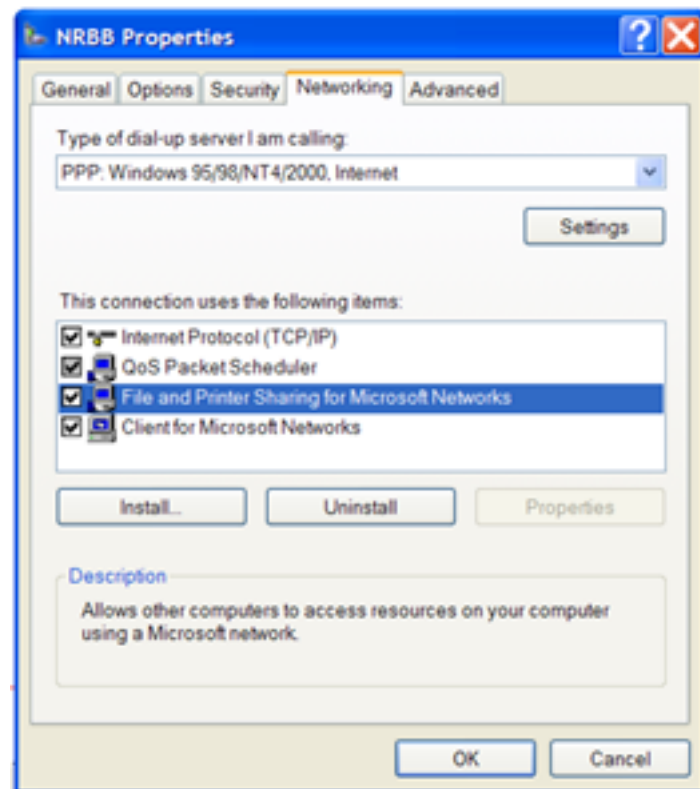


Figure 5-35

Close your **Network Connections** window and your **Control Panel** window.

Getting Online

Double left click on your NRBB icon on your desktop. Type **yourusername@nrbb.us** under **User name**. Next, type **yourpassword** under **Password**. Now, check the box which states save **this user name and password for the following users**. Left click on **Dial** and wait for your modem to connect (Figure 5-36). Once your modem is connected, double left click on the double red computers in the Task Bar (Figure 5-37). They will both turn yellow and within 30 seconds they will both turn green.



Figure 5-36



Figure 5-37

Disconnecting from the Internet

When you want to disconnect, just right click on your StarConnect SAT VPN icon (Fig 5-37) and select disconnect. Then disconnect your dial-up by either double clicking on your NRBB dialup short cut on the desktop and selecting disconnect, or by right clicking the blue computer connection status icon for NRBB dialup on the task bar and click disconnect.

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