ADSL Wireless LAN 4-Port Ethernet Router

Easy Start

Version 0.1

Contents

- Product warranty does not apply to damage caused by lightning, power surges or wrong voltage usage.
- This product is for use only in UL Listed computers.

Declaration of Conformity CE

Marking by the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment meets the following conformance standards:

EN300 328, EN301 489-17, EN60950

Countries of Operation and Conditions of Use in the European Community

This device is intends to be operated in all countries of the European Community. Requirement is for indoors vs. outdoors operation, license requirements and allowed channels of operation apply in some countries as described in this document.

Note: The user must use the configuration utility provided with this product to check the current channel of operation and confirm that the devices operating in conformance with the spectrum usage rules for the European Community countries as described below.

If operation is occurring outside of the allowable channels as indicated in this guide, then the user must cease operating the product and consult with the local technical support staff responsible for the wireless network.

This device may be operated **indoors or outdoors** in all countries of the European Community using the 2.4GHz band: **Channels 1 – 13**, except where noted below:

- In **Italy** the end-user must apply for a license from the national spectrum authority to operate this device outdoors.
- In **France** outdoor operation is only permitted using the 2.4 – 2.454 GHz band: Channels 1 – 7.

Radio Frequency Interference Warnings & Instructions

(FCC ID: I38-DSL600EWR)

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 uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television 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 methods:

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

Modifications made to the product, unless expressly approved by the party responsible, could void the user's right to operate the equipment.

RF Exposure

To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Introduction

Thank you on your purchase of the ADSL Wireless LAN 4-Port Ethernet Router! The Wireless 4-Port Router allows you to share high-speed broadband connection with multiple PC using a single device wired or wireless.

The Wireless Broadband 4-Port Router can be connected to any computer/notebook with a 10/100 Base-T Ethernet card for wired connection or an IEEE 802.11g Wireless adapter. The Ethernet ports have Auto MDI/MDIX feature which can allows both cross or straight UTP cable to be utilized. The Wireless 4-port Ethernet Router has an in-built IEEE802.11g Wireless LAN Access Point for wireless connectivity.

This documentation assumes that you have already installed an Ethernet card or a wireless adapter on your computer/notebook

Minimum System Requirements

- Pentium® MMX 233MHz
- Ethernet card installed with TCP/IP Protocol (Required only if you are connecting to the ETHERNET port of your ADSL Router)
- IEEE 802.11b Wireless adapter (Required if you are connecting to the Wireless Access Point of the router)
- OS independent for Ethernet
- Web Browser support:
  Microsoft Internet Explorer 4.0 (or later versions)
  Netscape® Navigator 3.02 (or later versions)

ADSL Router Package

For any missing items, please contact your dealer immediately.

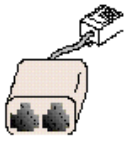
ADSL Ethernet Wireless Router

Easy Start

Telephone extension cable

Power adapter (DC 12V)

CAT-5 UTP Straight Ethernet Network cable (RJ-45)

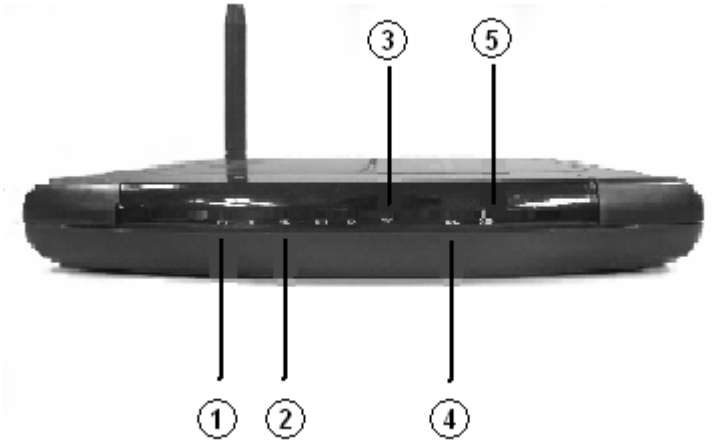


POTS-Splitter[1] (optional)

1 Depending on your country of purchase, your package may or may not come with a POTS Splitter. The POTS Splitter is required if you are connecting a Telephone Set to the Ethernet Modem. Please refer to **Step 1.2 - Connecting to the ADSL Line** for details. POTS-Splitter can also be purchased from your dealer.

ADSL Router Overview

Front Indicators



① **POWER**

Lights up when power is supplied to the ADSL Router.

② **ETHERNET (E1 ~ E4)**

Lights up when the Ethernet cable is properly connected from your ADSL Router to the Ethernet Card.

Flickers when the ADSL is transmitting/receiving data.

③ **WIRELESS**

Lights up when the Wireless LAN connection is established.

④ **DSL**

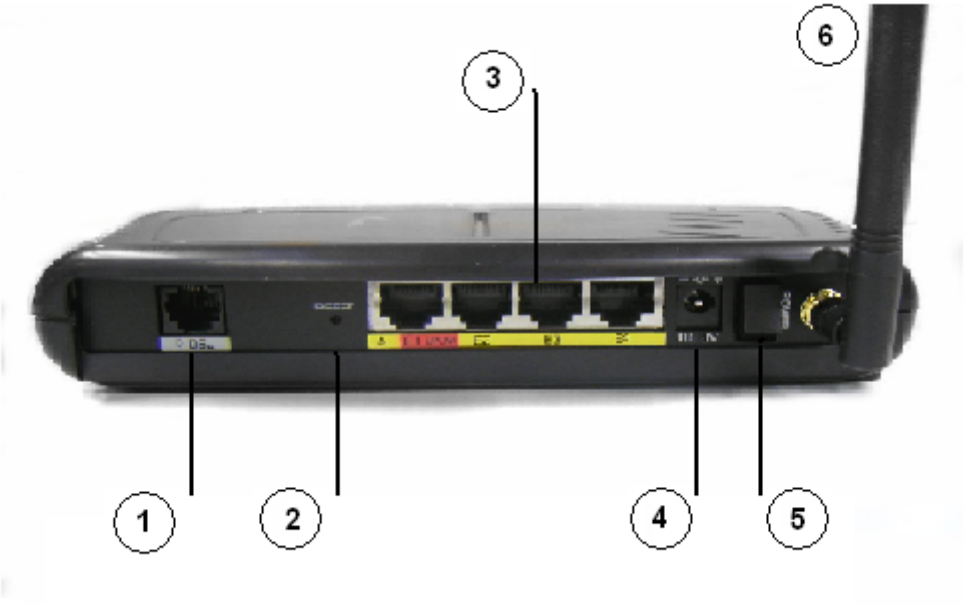
Lights up when the DSL connection is established.

Flickers when the ADSL Router is trying to establish a connection with the ADSL Service Provider.

⑤ **Internet**

Lights up when the PPP connection is established.

Back Panel



① **DSL**
Telephone jack (RJ-11) to connect to your Telephone Wall Socket (ADSL line).

② **RESET**
To reset your ADSL Router to factory default settings.(All customised settings that you have saved will be lost!)Please refer to the below footer[2] on how to activate the reset function.

③ **ETHERNET**
10/100 Base-T Ethernet jack (RJ-45) to connect to your Ethernet Network card or Ethernet Hub / Switch.

④ **DC IN**
To connect to the Power Adapter that comes with your package.

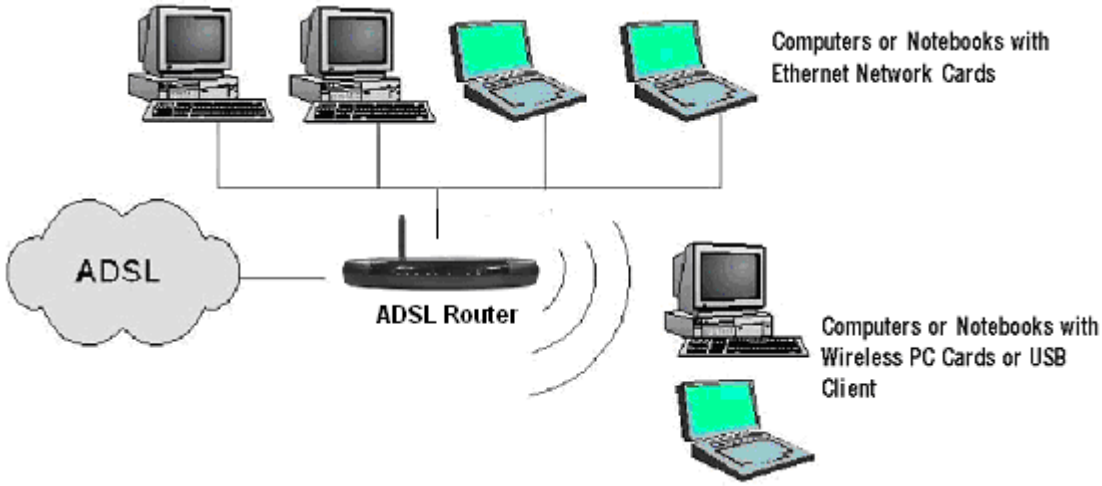
⑤ **POWER SWITCH**
To power on or off the modem.
I - indicates ON position
O - indicates OFF position.

⑥ **RF Antenna**
180° 2.4Ghz Wireless Antenna.

2 To activate the reset function:
- Ensure that your ADSL Router is powered on.
- Use a paper clip or a pencil tip to depress the reset button and release. At this point, the **DSL** indicator light will go off**,** followed by the **ETHERNET** indicators**.** The reset is in progress.
- When the **DSL** indicator starts blinking, it means that the reset process is completed. The default settings are now restored.
- ADSL line is established once the **DSL** indicator lights up.

Typical ADSL Router Connections

Up to 4 PCs Connections



For More than 4 PCs Connections

To connect to more than 4 computers/notebooks, you may further expand one of the Ethernet Ports via an Ethernet Hub/Switch. For details on how to connect to the Ethernet Switch/Hub, please refer to the documentation that comes with the unit.

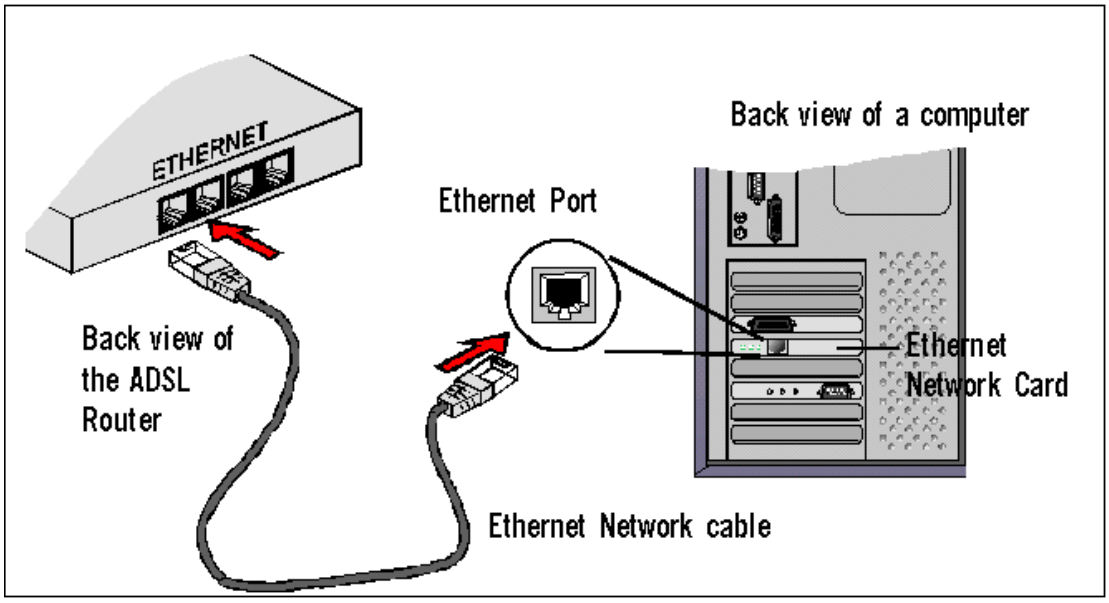
With the Auto MDI/MDIX feature, both cross and straight UTP cable can be utilized

Step 1: Connecting the ADSL Router to Your Computer/Notebook

Power off your Computer/Notebook or/and any connected devices before connecting to the ADSL Router!

1.1 Connecting to the Ethernet

Connect your computer(s)/notebook(s) to the ADSL 4 Port Router as illustrated. The following illustration shows the connection of a single computer.



NOT SURE HOW THE ETHERNET PORT LOOKS LIKE?
The following are some tips to help you locate your Ethernet Ports on your Computer/Notebook. Alternatively, you may refer to the documentation that comes with your Computer/Notebook.
Locating the Ethernet Port on your Computer/Notebook
Most Computers/Notebooks have labels describing the Ports. For Ethernet Port, you will see either ETHERNET, ETH or RJ45 labelled near the Port.
If your Computer/Notebook does not have such descriptions, try the following.
- Picture A gives the illustration of an Ethernet Port. All Ethernet Ports have 8 conductors on it. Do not mistaken with the LINE Port (Picture B) that has only 6 conductors.
- The Ethernet Port is slightly bigger than the LINE Port.

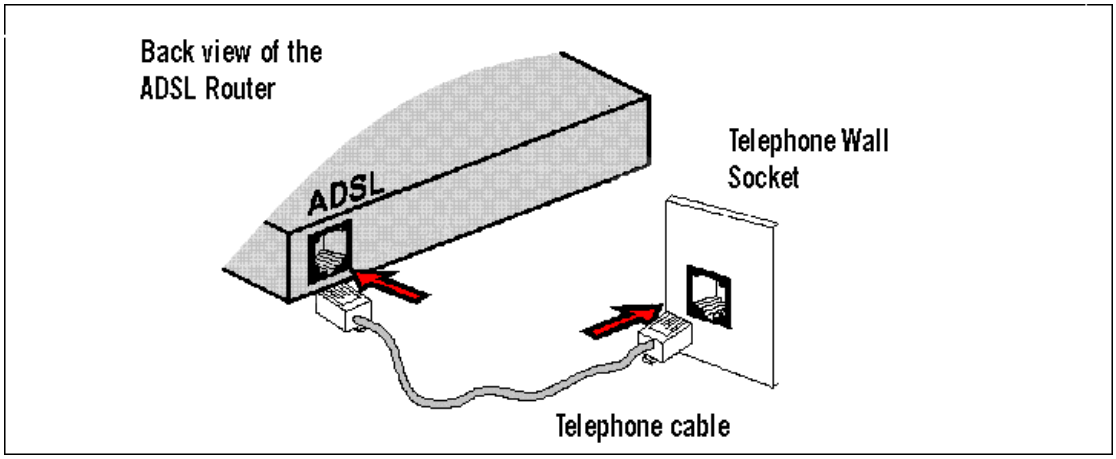
A. ETHERNET

B. LINE

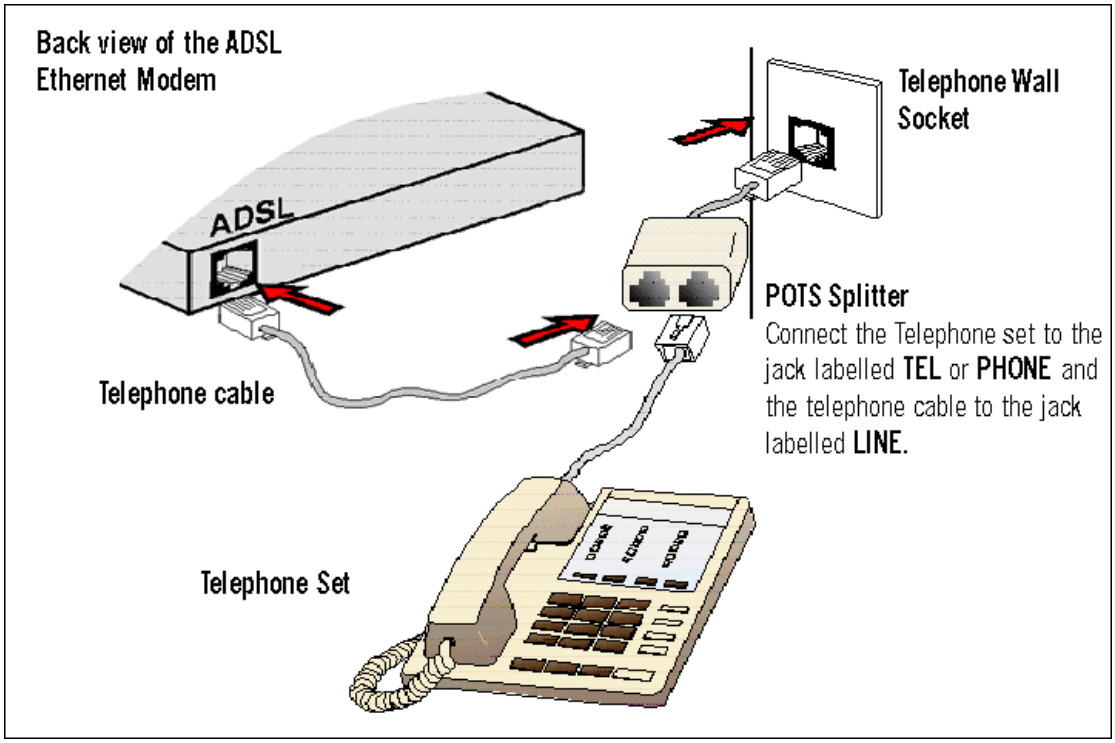
1.2 Connecting to the ADSL Line

To connect the **ADSL Ethernet Modem to the ADSL line**, carried out **Step 1.2(a)**.
To connect the **ADSL Ethernet Modem to the ADSL line and a Telephone Set**, carried out **Step 1.2(b)**.

(a) To connect to the ADSL line



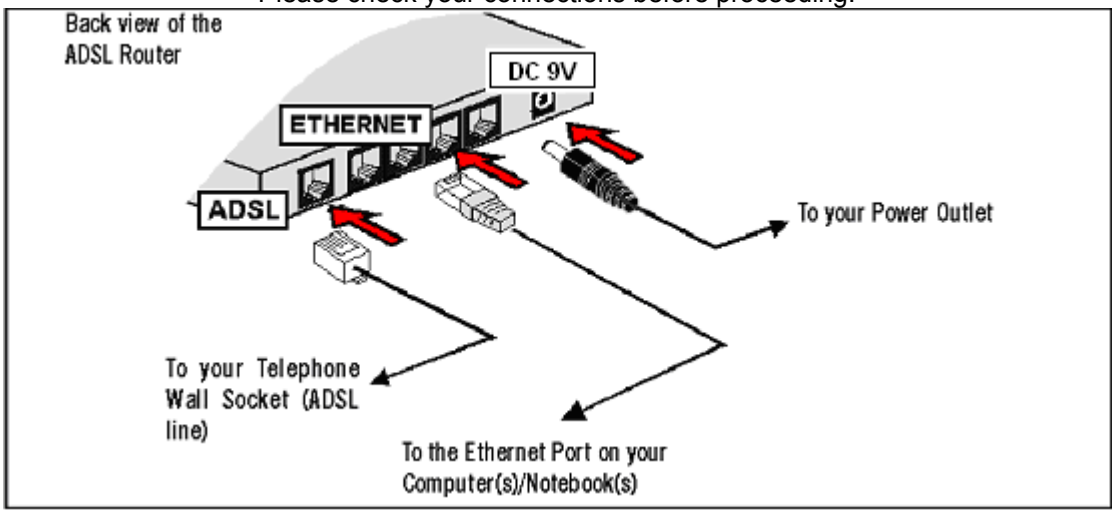
(b) To connect to the ADSL line and Telephone Set



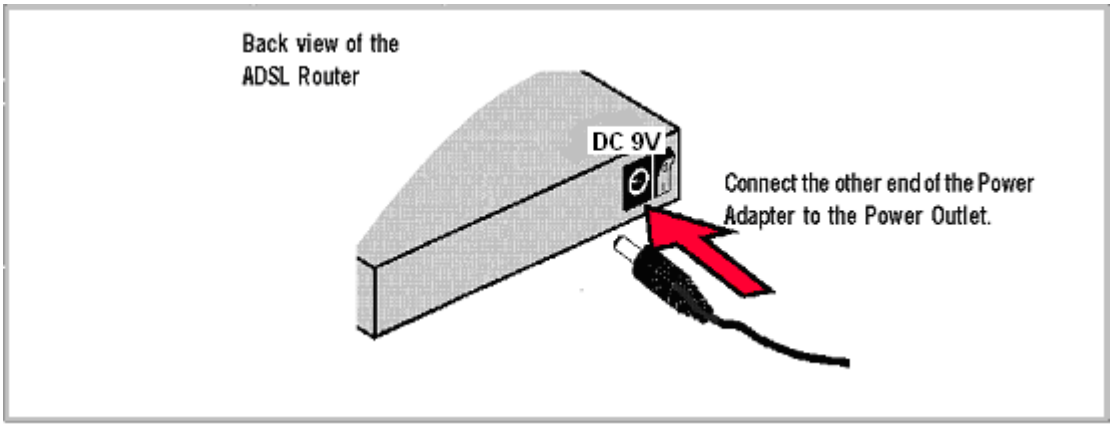
The POTS Splitter(with built-in Microfilter) is a device that allows you to connect both your Telephone cable and Telephone Set to the same Telephone Wall Socket. The device at the same time helps to eliminate background noise on the telephone line, ensuring the best possible phone performance.

1.3 Checking Your Connections

Please check your connections before proceeding.



1.4 Connecting to the Power Outlet



1.5 Powering On

Power on the Power Outlet that is connected to your ADSL Router.
Power on your Computer(s)/Notebook(s).

Please proceed to **Step 2**

Step 2: Configuring Your Ethernet Network Card

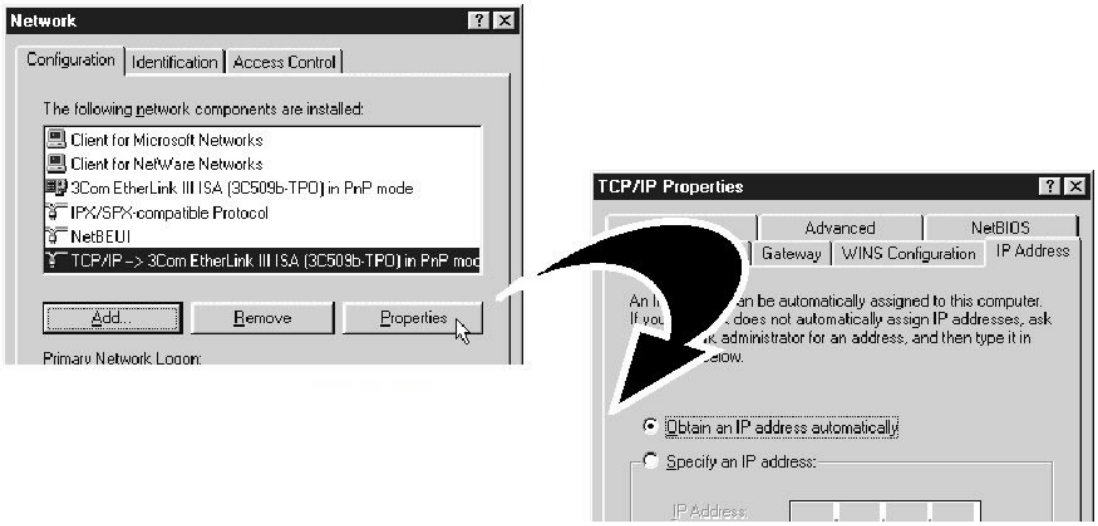
2.1 Configuring Your Ethernet Network Card / Wireless adapter

The following illustrated screen shots serve only as examples. For any dissimilarities, please follow closely the instructions prompted on your Computer. For configuring your modem, please refer to the User Manual – **Web Management Guide** on your Installation CD

2.2 For Windows® 98 Second Edition / Windows® Me

i From your Windows desktop, right-click on the **Network Neighborhood** icon. Select **Properties**.

ii From the **Configuration** tab, select **TCP/IP-> xxx** where **xxx** refers to **the model of your Ethernet Card or wireless adapter that is connected to your ADSL Router**. Click **Properties**.



Click the **IP Address** tab.

Click the option **Obtain an IP address automatically** and click **OK** to save the settings.

Ensure that your ADSL Router is powered on. Restart your system.

Proceed to **Step 3**.

2.3 For Windows® 2000 / Windows® XP

i **Windows® 2000:**

a) From your Windows desktop, right-click on the icon **My Network Places** and select **Properties**.

b) At the **Network and Dial-up Connections** window, right-click on the **Local Area Connection** icon and select **Properties**.

Windows® XP:

(Instructions are based on default **Start menu** option)

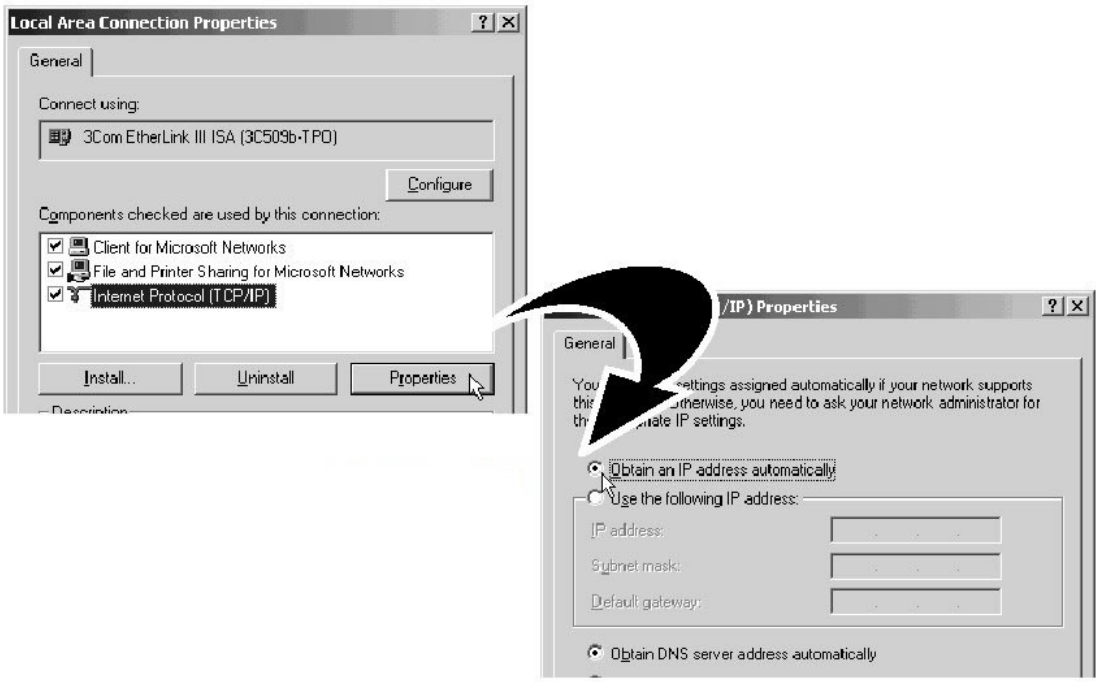
a) From your Windows desktop, click Start > All Programs > Accessories > Communications > Network Connections.

b) Right-click on the Local Area Connection icon that reflects the model of your Ethernet Card or wireless adapter that is connected to your ADSL Router and click Properties.

ii Ensure that the field **Connect Using** indicates the model of your Ethernet Card that is connected to your ADSL Router.

(This is important especially if you have more than one **Local Area Connection** icons displayed at the **Network and Dial-up Connections** / **Network Connections** window. Ensure that you have selected the correct one.)

Select **Internet Protocol (TCP/IP)** and click **Properties**.



iii Select the option **Obtain an IP address automatically** and click **OK**.

Click **OK** again to close.

Ensure that your ADSL Router is powered on. Restart your system.

Proceed to **Step 3**

Step 3: Configuring Your Internet Browser

3.1 Microsoft® Internet Explorer™ (based on IE 5.5)

i From your Windows desktop, double-click on your Internet Explorer icon to launch your Browser.

ii From the Menu, click **Tools** and select **Internet Options...** .

iii Select the **Connection** tab. Click the field, '**Never dial a connection**'. (This option will be grayed off if you have not installed an analog modem on your computer/notebook before. Proceed with **3.1 iv**).

iv Click the **LAN Settings...** button. Ensure that your **Proxy Server** is not enabled.

v Click **OK** to close the dialog box.

You may now proceed to **Step 4** to establish your Internet connection.

3.2 Netscape® Navigator

i From your Windows desktop, double-click on your Navigator icon to launch your Browser.

ii Depending on your Netscape versions, carry out one of the following instructions:

Click **Options** > **Network Preferences**.
Select **Proxies**. Ensure that the **No Proxies** option is selected.

OR

Click **Edit** > **Preferences**.
Select **Advanced** and click **Proxies**. Ensure that the option **Direct Connection to the Internet** is enabled.

iii Click **OK** for changes to take effect.

You may now proceed to **Step 4** to establish your Internet connection.

Step 4: Connecting to the Internet

i From your Internet Browser, key in http://192.168.1.1 at the address bar and hit <**Enter**>.

ii The **Login Setting Page** will be displayed.

iii **For Singapore Users**

The ADSL Ethernet Router has been configured by default for SingNet Broadband and Pacific Internet Broadband users, VPI=0, VCI=100, Protocol=PPPoA VC-Mux. Under Login Settings, please key in your username and password and click Connect.

For Other Countries Users

For other users using other Internet Service Provider service, please enter relevant details and click Connect to connect to the Internet. You should refer back to your Internet Service Provider for the settings.