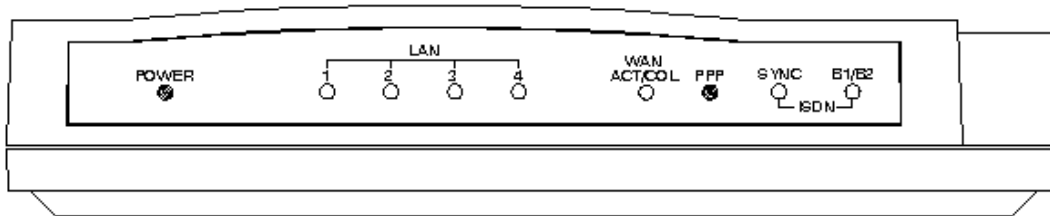# *Billion*

BIPAC-645

DSL/Cable Router Plus ISDN Router
With 4-Port 10/100M LAN Switch

Quick Start Guide

Package Contents

1. BIPAC-645
2. AC Power Adapter (9V 1Amp)
3. RS-232 cable (Null modem type)
4. RJ-45 ISDN cable
5. RJ-45 LAN cable
6. CD containing the online manual
7. This Quick Start Guide

The Front Panel LEDs

|	LED	Meaning
1	**Power**	**Lit** when AC power is connected.
2	**LAN 1-4 / ACT/COL**	**Lit** Green when connected to a LAN device. **Flashes** Green when sending/receiving data. **Flashes** Yellow when collisions happen.
3	**WAN / ACT/COL**	**Lit** Green when connected to a WAN device. **Flashes** Green when sending/receiving data. **Flashes** Yellow when collisions happen.
4	**PPP**	**Lit** when PPPoE connection is activated.
5	**ISDN / SYNC**	**Lit** when ISDN Layer 1 is activated.
6	**ISDN / B1/B2**	**Lit** Green when B1 channel is activated. **Lit** Yellow when B2 channel is activated. **Lit** Green +Yellow when B1 and B2 channels are activated.

The Rear Ports
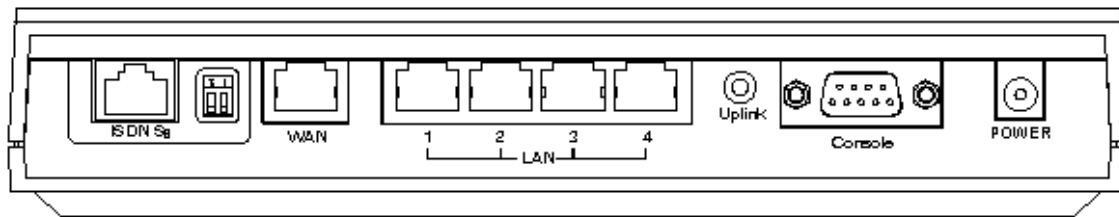
Power (jack)	Connect the supplied power adapter to this jack.
Console (port)	Connect the supplied RS-232 cable to this port when connecting to a PC's RS-232 port (9-pin serial port).
ISDN So (RJ-45 connector)	Connect an RJ-45 cable to this port when connecting to the ISDN.
LAN 1-4 (RJ-45 connector)	Connect an UTP Ethernet cable to this port when connecting to a LAN such as an office or home network.
WAN (RJ-45 connector)	Connect an UTP Ethernet cable to this port when connecting to the Internet or making other WAN connections.

Connecting the BIPAC-645

1. Connect the BIPAC-645 to a LAN (Local Area Network) and the WAN or ISDN.

2. Power on the device.

3. Ensure the Power and LAN LEDs are lit.
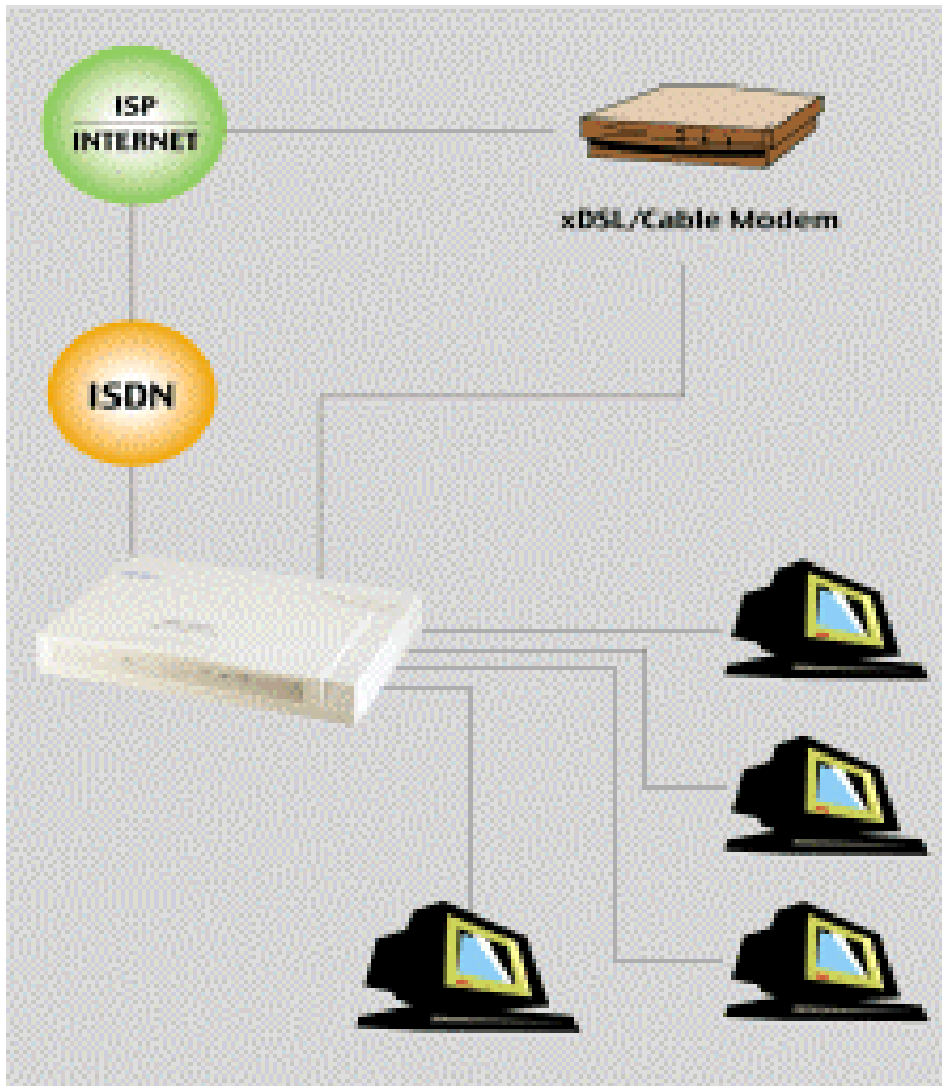
NOTE: For more detailed instructions on configuring and using the device, please refer to the on-line manual.

Configuring PC in Windows 95/98/ME

1. Go to **Start / Settings / Control Panel**. In the Control Panel double-click on **Network** and choose the **Configuration** tab.

2. Select **TCP/IP -> NE2000 Compatible**, or any Network Interface Card (NIC) in your PC. Then click **Properties**.

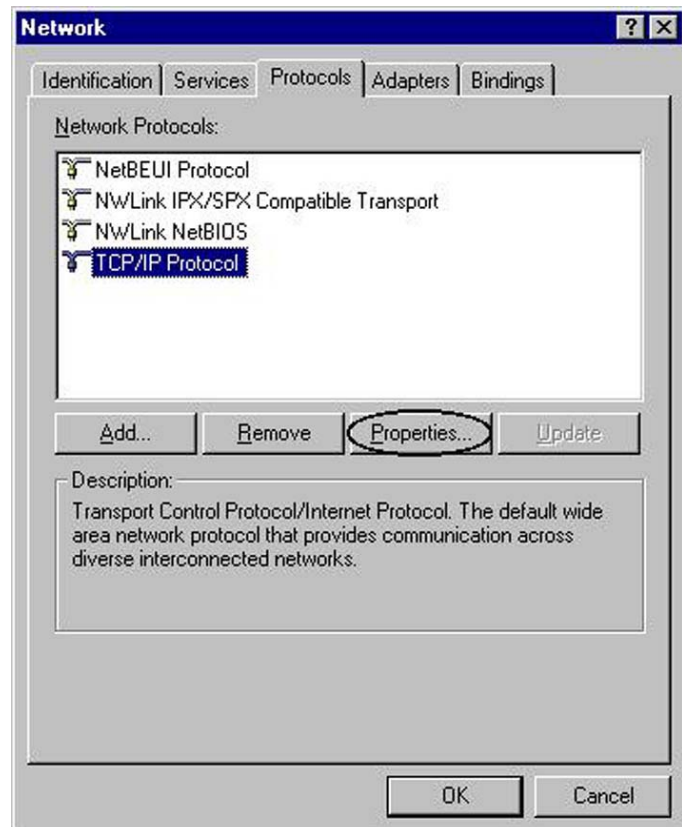**3.** Select the **Obtain an IP address automatically** radio button.
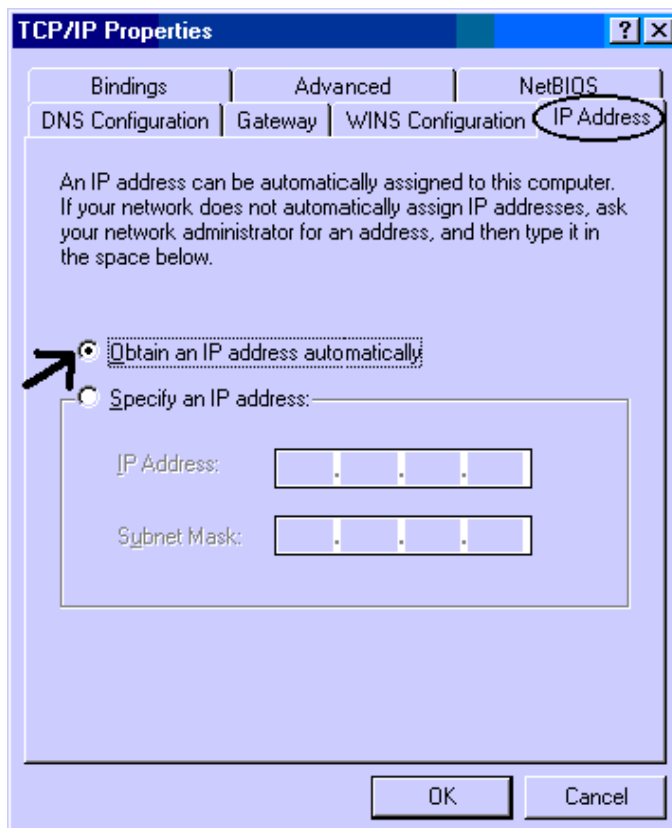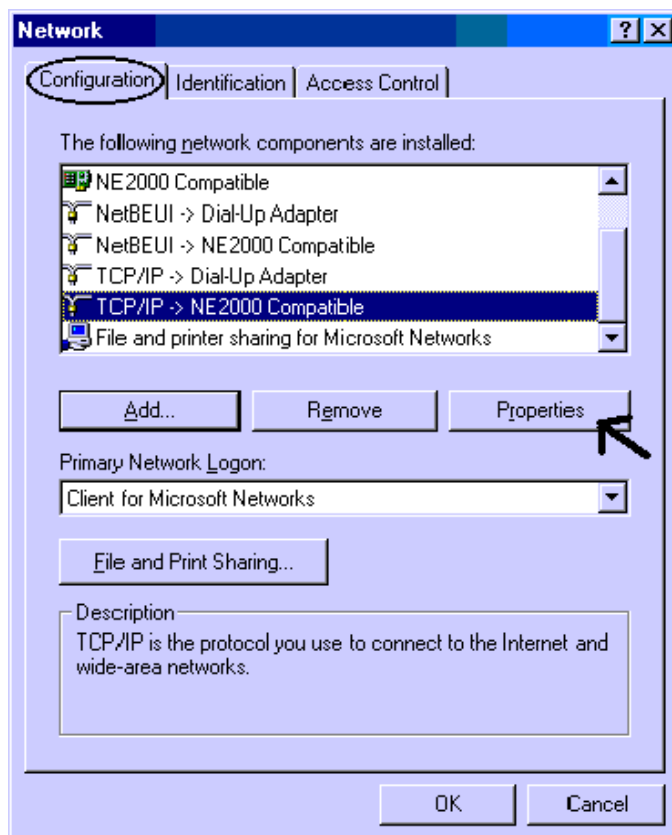
4. Then select the **DNS Configuration** tab.

5. Select the **Disable DNS** radio button and click **OK** to finish the configuration.
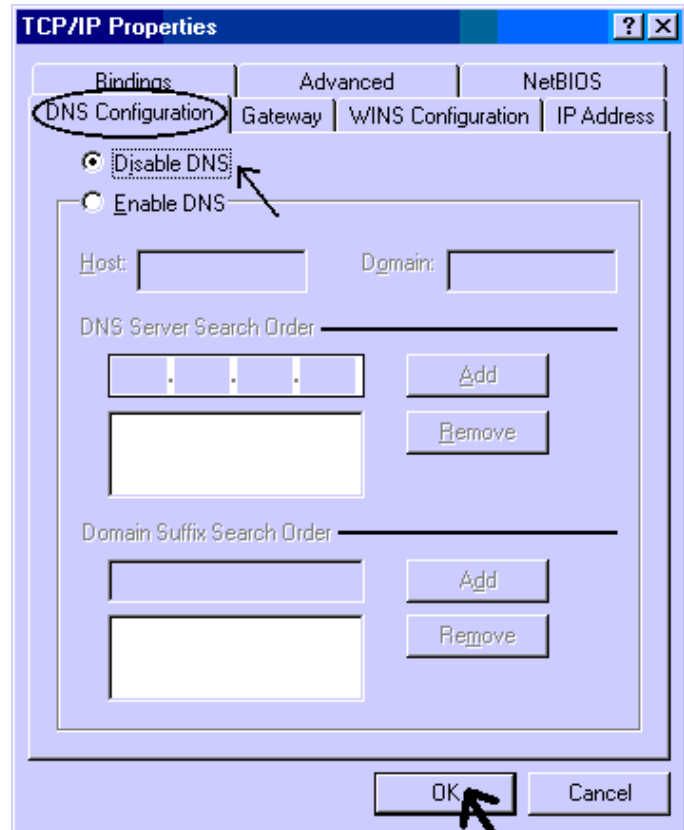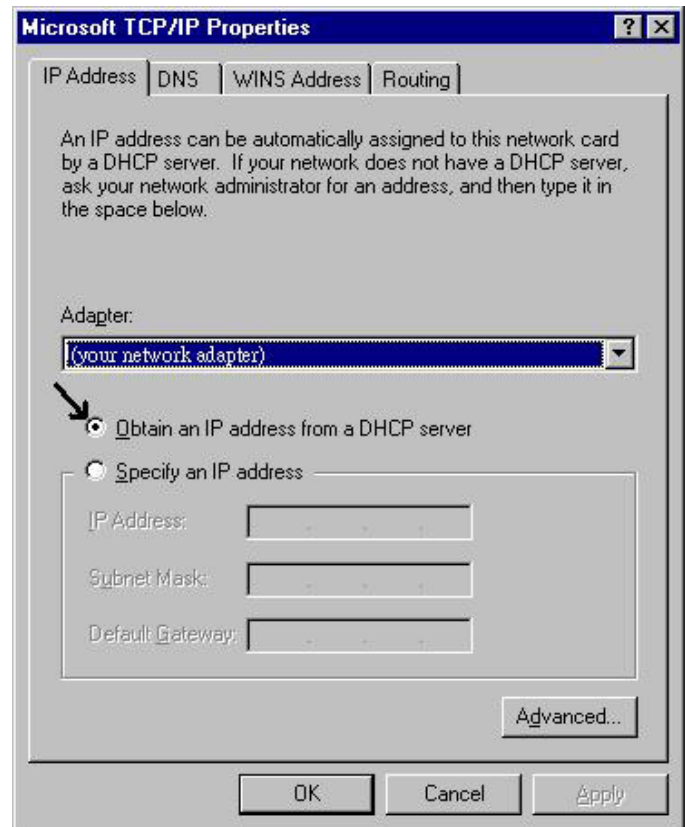
Configuring PC in Windows NT4.0

1. Go to **Start / Settings / Control Panel**. In the Control Panel double click on **Network** and choose the **Protocols** tab.

2. Select **TCP/IP Protocol** and click **Properties**.

3. Select the **Obtain an IP address from a DHCP server** radio button and click **OK**.
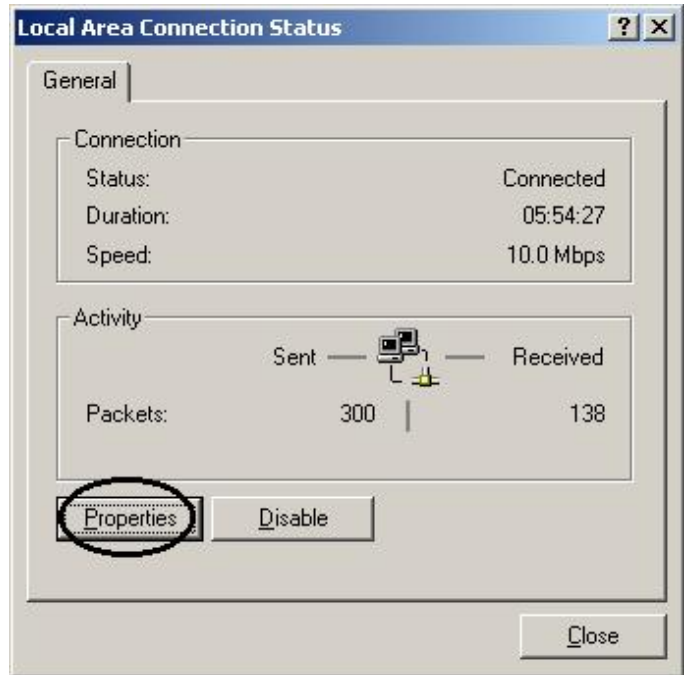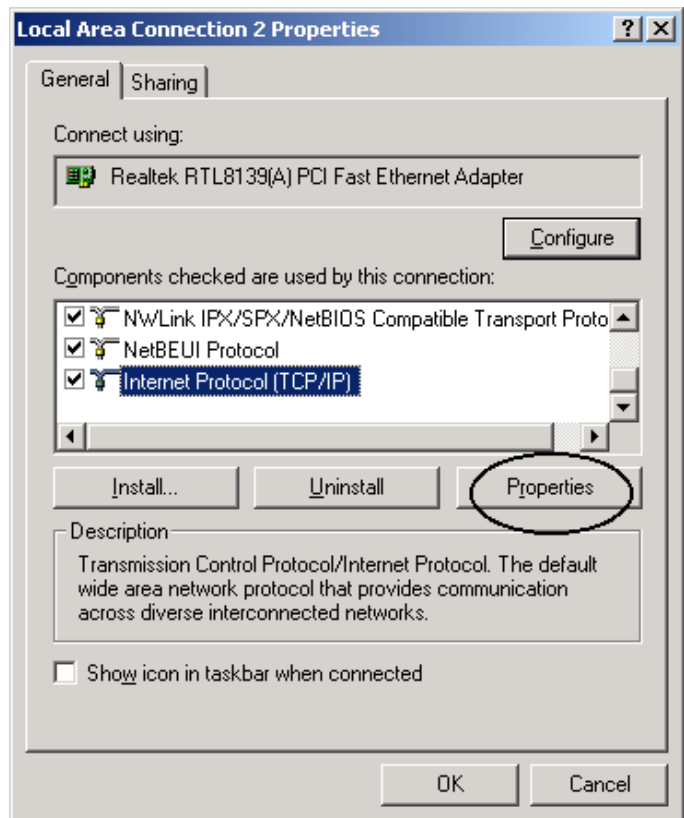
Configuring PC in Windows 2000

1. Go to **Start / Settings / Control Panel**. In the Control Panel double-click on **Network and Dial-up Connections**.

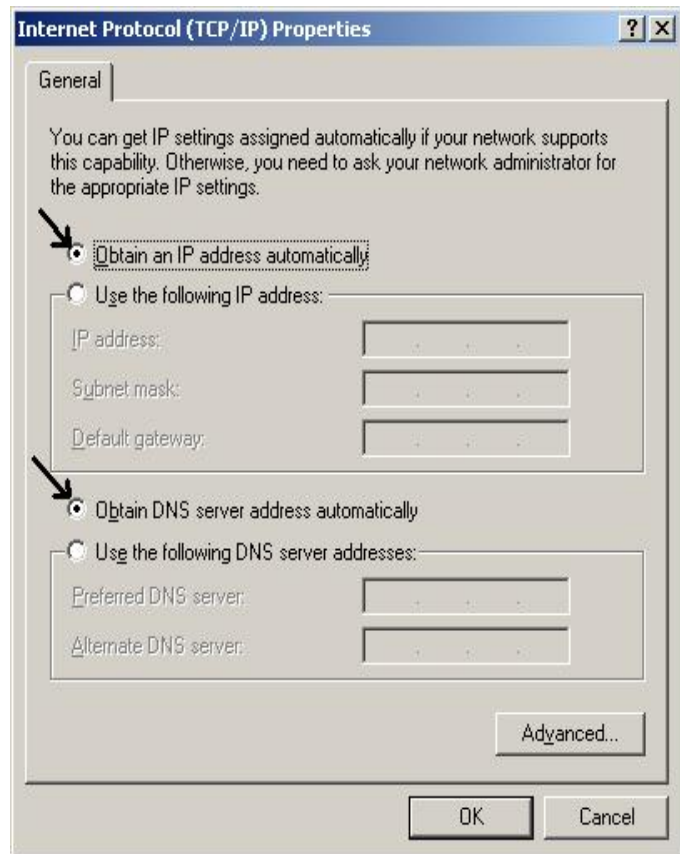2. Double-click **Local Area Connection**.

3. In the **Local Area Connection Status** window click **Properties**.

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

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5. Select the **Obtain an IP address automatically** and the **Obtain DNS server address automatically** radio buttons.
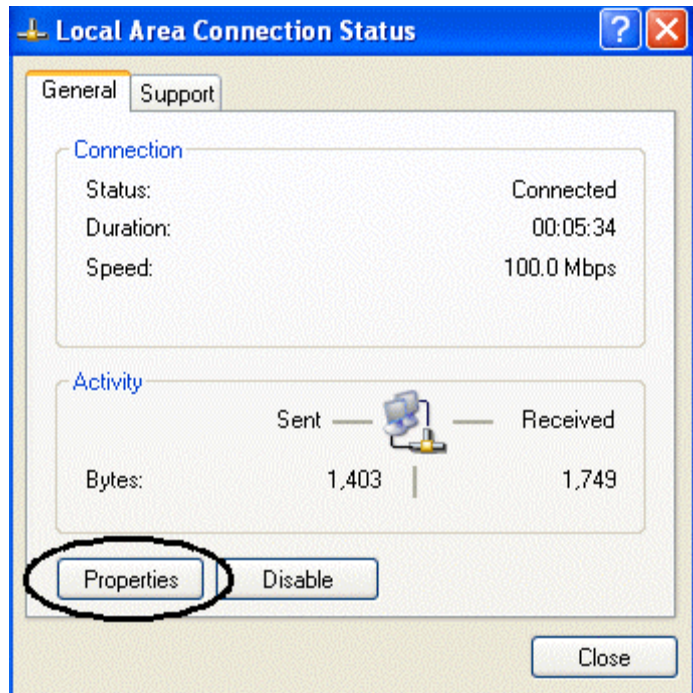
6. Click **OK** to finish the configuration.

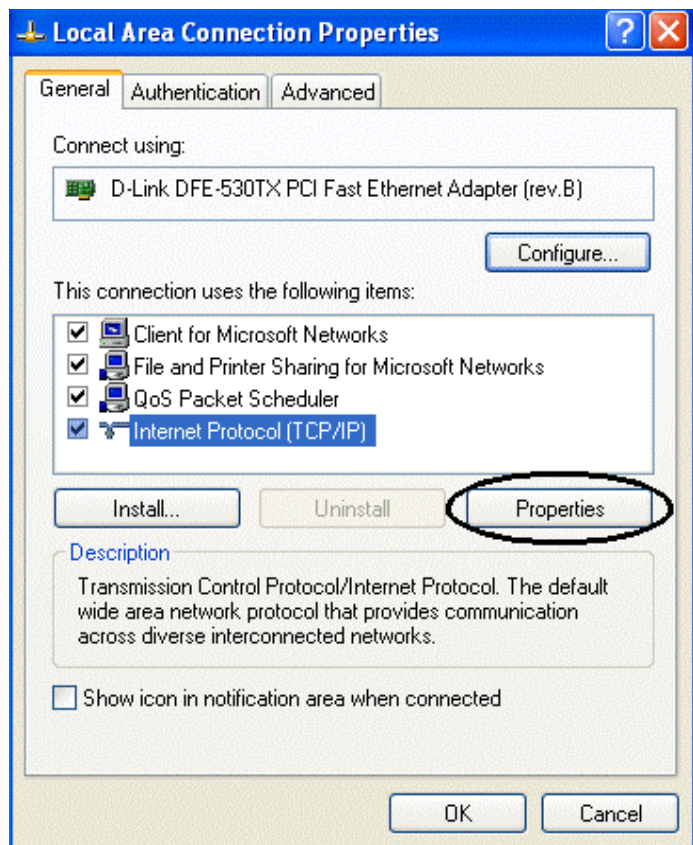# Configuring PC in Windows XP

1. Go to **Start / Control Panel (in Classic View)**. In the Control Panel, double-click on **Network Connections.**

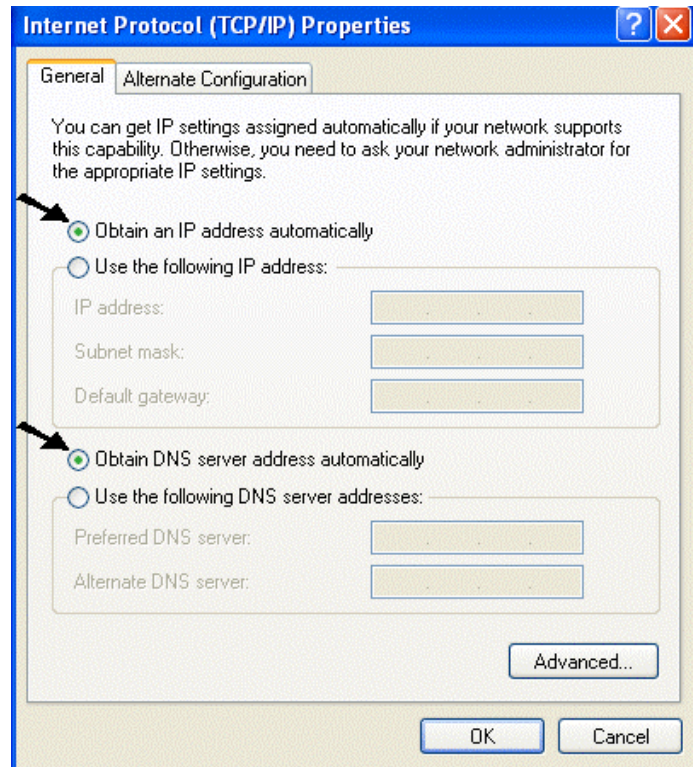2. Double-click **Local Area Connection**.

3. In the **Local Area Connection Status** window, click **Properties**.

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

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5. Select the **Obtain an IP address automatically** and the **Obtain DNS server address automatically** radio buttons.

6. Click **OK** to finish the configuration.

Configuring the BIPAC-645

1. Start a web browser on any one of the PCs in the LAN and enter the following URL: **http://192.168.168.230**. You should see the following screen.

2. The default password ("password") has already been entered for you. You can just click "Log On!" to log on. You may use the "System Tools" menu to change the password later.

3. Make a decision either Internet access via EWAN or ISDN.

For EWAN

1. You need to make a decision about **Obtain IP Address Automatically.**
Available options are **via PPP over Ethernet**, **via DHCP**, **via PPTP**
or **No**.

2. If you choose **via DHCP** for the selection of **Obtain IP Address Automatically.** The following screen will be displayed. Enter the following information and then Click **Apply.**

3. If you choose **via PPP over Ethernet** for the selection of **Obtain IP Address Automatically.** The following screen will be displayed. Enter the following information and then Click **Apply and Test.**

4. If you choose **via PPTP** for the selection of **Obtain IP Address Automatically.** The following screen will be displayed. Enter the following information and then click **Apply and Test.**

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Internet Access Configuration
EWAN

Profile Name	ewanisp
Obtain IP Addresses Automatically	via PPTP
Host Name (System Name)	Router
PPTP Local IP Address	. . .
PPTP IP Netmask	. . .
PPTP Remote IP Address	. . .
ISP Account Name	
ISP Account Password	
Idle Timeout (0-3600 seconds)	120

Apply and Test   Cancel
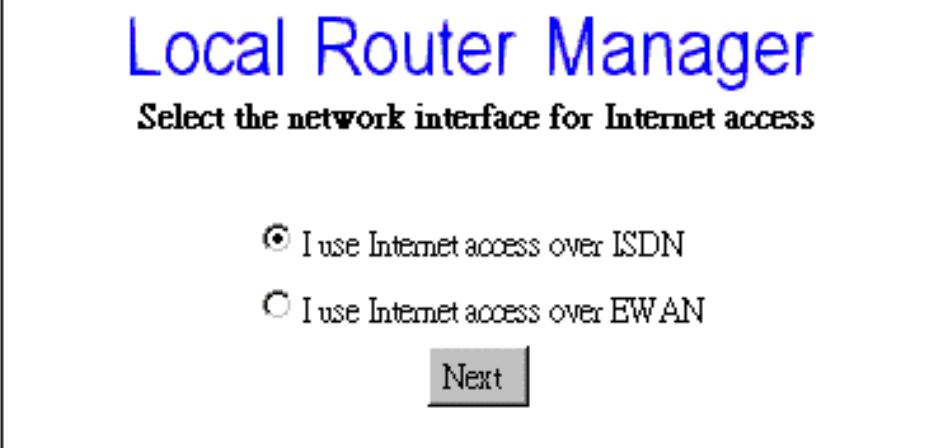
5. If you choose **No** for the selection of **Obtain IP Address Automatically.** The following screen will be displayed. Enter the following information and then Click **Apply.**

Internet Access Configuration
EWAN

Profile Name	ewanisp
Obtain IP Addresses Automatically	No
EWAN IP Address	. . .
EWAN IP Netmask	. . .
ISP Gateway IP Address	. . .
Primary DNS IP Address	199 . 191 . 129 . 139
Secondary DNS IP Address	199 . 191 . 144 . 75

Apply

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For ISDN

1. Select **I use Internet Access over ISDN** and then click **Next**.
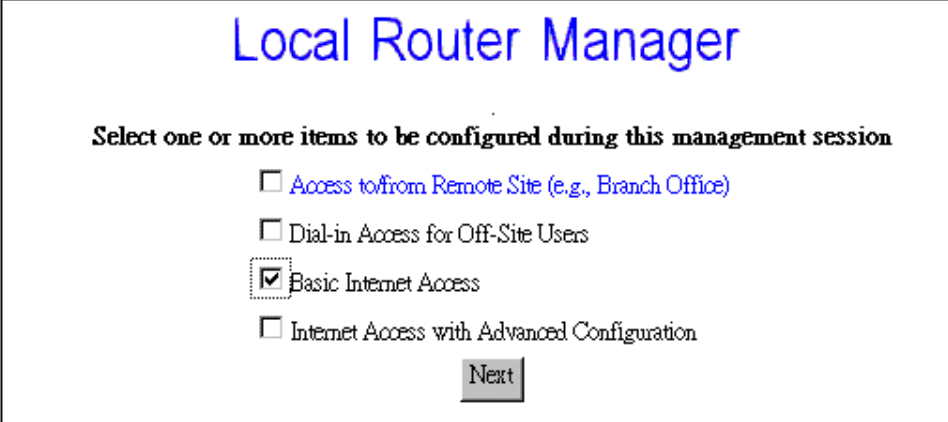
Local Router Manager
Select the network interface for Internet access

◉ I use Internet access over ISDN

○ I use Internet access over EWAN

Next

2. Select "**Basic Internet Access**" and press "**Next**"

Local Router Manager

Select one or more items to be configured during this management session

☐ Access to/from Remote Site (e.g., Branch Office)

☐ Dial-in Access for Off-Site Users

☑ Basic Internet Access

☐ Internet Access with Advanced Configuration

Next

3. Enter the information about ISP.

Internet Access Configuration
ISDN

ISDN Switch Type	Europe (ETSI)
Number of Directory Phone Numbers	3
Directory Phone Number 1	
Directory Phone Number 2	
Directory Phone Number 3	
Remote Phone Number	
ISP Account Name	
ISP Account Password	

Apply and Test

NOTE: *If the test is successful, your users will be ready to access the Internet. If not, the device will try to give you enough information to let you know why the connection is not successful.*

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