

P-660R-TxC Series

ADSL2+ Access Router

Quick Start Guide

DRAFT

Version 3.40
Edition 1
2/2006

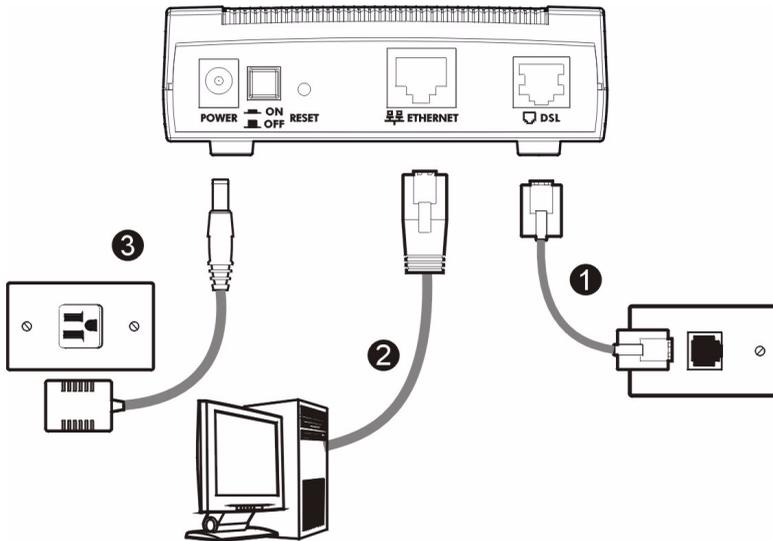
ZyXEL

Overview

The P-660R-TxC ADSL2+ access router is the ideal device for small networks connecting to the Internet via ADSL. See your User's Guide for background information on all features.

1 Hardware Connections

If you prefer to see a multi-media animation of how to make hardware connections, see the included CD.



- 1 DSL:** Use a telephone wire to connect your P-660R-TxC's **DSL** port to a telephone jack (or to a splitter, if one is already installed).
- 2 ETHERNET:** Use an Ethernet cable to connect a computer to the **ETHERNET** port for initial configuration and/or Internet access.
- 3 POWER:** Use the included power adaptor to connect the **POWER** socket to an appropriate power source.

After you've made the connections, push in the power button to turn on the P-660R-TxC. Look at the lights on the front panel. The **POWER** light blinks while performing system testing. The **POWER** light then turns steady on if the testing is successful. The **ETHERNET** light turns on if the LAN port is properly connected.

2 Configuration for Internet Access

You may configure the P-660R-TxC for Internet access in any *one* of these ways:

- **Configuration Genie**
- **Zero Configuration**
- **Web Configurator Internet Access Wizard**

Note: Configuration genie and Zero configuration are only able to configure the device automatically for Internet access if you are using **PPPoE**, **PPPoA** or **ENET ENCAP** encapsulation with a dynamically-assigned IP address from your ISP.

If you're not using these Internet access settings, then use the **Web Configurator Internet Access Wizard** to manually configure the device.

You will need your Internet access information such as user name and password if given by your ISP.

INFORMATION FROM ISP	YOU ARE USING		
	ENCAPSULATION METHOD	MODE	IP ADDRESS
None	RFC1483	Bridge	N/A
	ENET ENCAP	Routing	Dynamic
An IP address only	RFC1483	Routing	Static
A user name and password	PPPoA or PPPoE	Routing	Dynamic
	PPPoA	Bridge	N/A
A user name, password and an IP address	PPPoA or PPPoE	Routing	Static
An IP address, subnet mask and a gateway IP address	ENET ENCAP	Routing	Static

2.1 Configuration Genie

From the included CD, click “Multimedia Auto Provisioner” (the installation and configuration assistant) and then click “Installation Tutorial”. After you’ve viewed the tutorial, click “Configuration Genie” at the end of the installation tutorial or from “Multimedia Auto Provisioner” in the CD.

2.2 Zero Configuration

Launch your web browser and navigate to any web site (for example, www.zyxel.com). The P-660R-TxC automatically detects and configures your Internet connection. This may take about two minutes.



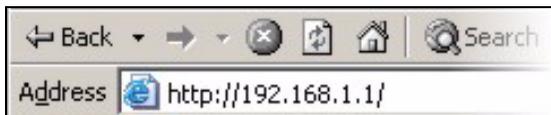
If you have a **PPPoE** or **PPPoA** connection, a screen displays prompting you to enter your Internet account information. Enter the username, password and/or service name exactly as provided. Click **Log on to the Internet !**.



2.3 Web Configurator Internet Access Wizard

2.3.1 Accessing the Web Configurator

1 Launch your web browser. Enter "192.168.1.1" as the web site address.



Note: If you do not see the next screens, then please read [Section 4.1 on page 8](#).

2 Click **Login**.

3 Type a new password (retype it to confirm) and click **Apply**. Otherwise click **Ignore**. You then see the main web configurator screen.

4 In the **Site Map** screen, click **Wizard Setup**.

 Two screenshots of the P-660R-T1C web configurator interface. The first screenshot shows a login screen with a "Password:" field containing asterisks and "Login" and "Cancel" buttons. The "Login" button is circled in red. The second screenshot shows a "Change Password" screen with the heading "Use this screen to change the password." and instructions. It includes fields for "New Password:" and "Retype to Confirm:", both containing asterisks, and "Apply" and "Ignore" buttons. The "New Password:" and "Retype to Confirm:" fields and the "Apply" button are circled in red.


2.3.2 Internet Access Setup

1 Configure the Internet access settings in this step. The wizard screens vary depending on the **Mode** and **Encapsulation** you chose in the first wizard screen.

Note: Enter the Internet access information given to you by your ISP exactly in each wizard screen. If not given, leave the fields set to the default.

RFC 1483

A) Select **Routing** if your ISP gave you an IP address and allows multiple computers to share an Internet account. Otherwise, select **Bridge**. Then select **RFC 1483**.

B) Click **Next**.

C) If you selected **Routing**, enter the IP address given by your ISP.

D) If you selected **Routing**, select **SUA Only** when you have one public IP address, **Full Feature** when you have more than one public IP address (for translation) or **None** to disable NAT.

E) Click **Next**.

ENET ENCAP

A) Select **Routing**, then **ENET ENCAP**.

B) Click **Next**.

C) If your ISP gave you an IP address, subnet mask and gateway address, select **Static IP Address** and enter them. Otherwise, select **Obtain an IP Address Automatically**.

D) Select **SUA Only** if you have one public IP address, **Full Feature** if you have more than one public IP address (for translation) or **None** to disable NAT.

E) Click **Next**.

PPPoE

- Select **Routing**, then **PPPoE**.
- Click **Next**.
- Enter the service name, username and password given by your ISP.
- If your ISP gave you an IP address, select **Static IP Address** and enter it. Otherwise, select **Obtain an IP Address Automatically**.
- Select **Nailed-Up Connection** to have your connection up all the time. Otherwise, select **Connect on Demand** and specify an idle time-out period (in seconds) in the **Max. Idle Timeout** field.
- Select **SUA Only** if you have one public IP address, **Full Feature** if you have more than one public IP address (for translation) or **None** to disable NAT.
- Click **Next**.

Wizard Setup - ISP Parameters for Internet Access

Mode: **A** Routing

Encapsulation: **A** PPPoE

Multiplex: LLC

Virtual Circuit ID: VPI: 8, VCI: 35

B Next

Wizard Setup - ISP Parameters for Internet Access

Service Name: **C**

User Name: **C** user@domain

Password: **C**

IP Address: **D** Obtain an IP Address Automatically

Connection: **E** Nailed-Up Connection

Network Address Translation: SUA Only **F**

G Next

PPPoA

- Select **Routing** if your ISP allows multiple computers to share an Internet account. Otherwise, select **Bridge**. Then select **PPPoA**.
- Click **Next**.
- Enter the username and password given by your ISP.
- If your ISP gave you an IP address, select **Static IP Address** and enter it. Otherwise, select **Obtain an IP Address Automatically**.
- Select **Nailed-Up Connection** to have your connection up all the time.

Wizard Setup - ISP Parameters for Internet Access

Mode: **A** Routing

Encapsulation: **A** PPPoA

Multiplex: LLC

Virtual Circuit ID: VPI: 8, VCI: 35

B Next

Wizard Setup - ISP Parameters for Internet Access

User Name: **C** user

Password: **C**

IP Address: **D** Obtain an IP Address Automatically

Connection: **E** Nailed-Up Connection

Network Address Translation: SUA Only **F**

G Next

Otherwise, select **Connect on Demand** and specify an idle time-out period (in seconds) in the **Max. Idle Timeout** field.

F) If you selected **Routing**, select **SUA Only** when you have one public IP address, **Full Feature** when you have more than one public IP address (for translation) or **None** to disable NAT.

G) Click **Next**.

2 Verify your LAN and WAN settings and click **Log on to the Internet !**.

3 The P-660R-TxC automatically tests the connection to the computer(s) connected to the LAN port. To test the connection from the P-660R-TxC to the ISP, click **Start Diagnose**. Otherwise click **Return to Main Menu** to go back to the main screen.

Wizard Setup - ISP Parameters for Internet Access

WAN Information:
 Mode: **Routing**
 Encapsulation: **PPPoE**
 Multiplexing: **LLC**
 VPI/VCI: **8/35**
 Service Name :
 User Name : **user**
 Password : *********
 IP Address : **Obtain an IP Address Automatically**
 Network Address Translation : **SUA Only**
 Connect on Demand: **Max Idle Timeout 0 sec.**

LAN Information:
 IP Address: **192.168.1.1**
 IP Mask: **255.255.255.0**
 DHCP: **ON**
 Client IP Pool Starting Address: **192.168.1.33**
 Size of Client IP Pool: **32**

Change LAN Configuration

Log on to the Internet !

Wizard Setup - ISP Parameters for Internet Access

LAN connections
 Test your Ethernet Connection **PASS**

WAN connections
 Test ADSL synchronization **PASS**
 Test ADSL(ATM OAM) loopback test **PASS**
 Test PPP/PPPoE server connection **PASS**
 Ping default gateway **PASS**

Start Diagnose Return to Main Menu

3 NAT

NAT (Network Address Translation - NAT, RFC 1631) means the translation of an IP address in one network to a different IP address in another. For example, you could translate one public IP address to multiple private IP addresses on your LAN (SUA Only). You must select **Routing** mode to use routing features such as NAT.

Click **Advanced Setup** and then **NAT** to open the **NAT-Mode** screen.

Select **SUA Only** if you have one public IP address and **Full Feature** if you have multiple public IP addresses (for address translation).

NAT - Mode

Network Address Translation

None

SUA Only [Edit Details](#)

Full Feature [Edit Details](#)

Apply

If you have servers on your LAN, configure an SUA server set to have them visible to the outside. From the **NAT - Mode** screen click **Edit Details** and fill in the fields as shown.

NAT - Edit SUA/NAT Server Set

	Start Port No.	End Port No.	IP Address
1	All ports	All ports	0.0.0.0
2	0	0	0.0.0.0
3	0	0	0.0.0.0
4	0	0	0.0.0.0
5	0	0	0.0.0.0
6	0	0	0.0.0.0
7	0	0	0.0.0.0
8	0	0	0.0.0.0
9	0	0	0.0.0.0
10	0	0	0.0.0.0
11	0	0	0.0.0.0
12	0	0	0.0.0.0

Save Cancel

4 Troubleshooting

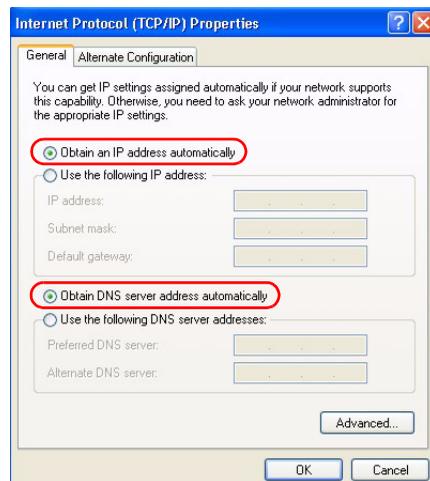
PROBLEM	CORRECTIVE ACTION
None of the LEDs turn on when you connect the P-660R-TxC's power.	<p>Make sure that you have the correct power adaptor connected to the P-660R-TxC, it is plugged into an appropriate power source and the P-660R-TxC is turned on.</p> <p>Check all cable connections. If the LEDs still do not turn on, you may have a hardware problem. In this case, you should contact your local vendor.</p>
Cannot access the P-660R-TxC from my computer.	<p>Check the cable connection from your computer to the P-660R-TxC.</p> <p>Make sure your computer's IP address is in the same subnet as the P-660R-TxC's IP address (see Section 4.1 on page 8).</p> <p>Ping the P-660R-TxC from a computer on the LAN. Make sure your computer's Ethernet adapter is installed and functioning properly. In the computer, click Start, (All Programs, Accessories and then Command Prompt. In the Command Prompt window, type "ping" followed by the P-660R-TxC's LAN IP address (192.168.1.1 is the default) and then press [ENTER]. The P-660R-TxC should reply; otherwise see Section 4.1 on page 8.</p> <p>If the P-660R-TxC's IP address has changed, then enter the new one as the URL.</p> <p>Use Internet Explorer 6.0 and later or Netscape Navigator 7.0 and later with JavaScript enabled.</p> <p>Make sure you enter the password correctly (the field is case sensitive).</p> <p>If you've forgotten the P-660R-TxC's password, use the RESET button. Press the button in for about 10 seconds (or until the POWER light starts to blink), then release it. It returns the P-660R-TxC to the factory defaults (password is 1234, LAN IP address 192.168.1.1 etc.; see your User's Guide for details).</p>
Cannot access the Internet.	<p>Verify the Internet connection settings in the wizard. Make sure you entered the correct user name and password if you are using PPPoE or PPPoA.</p> <p>The P-660R-TxC stores the Internet connection settings that it detects using zero configuration. Reset the P-660R-TxC to the factory defaults or manually configure it for Internet access if you connect it to another DSL line with a different VPI and VCI.</p>

4.1 Set Up Your Computer's IP Address

This section shows you how to set your Windows NT/2000/XP computer to automatically get an IP address. This ensures that your computer can connect with your P-660R-TxC. Refer to your *User's Guide* for detailed IP address configuration for other Windows and Macintosh computer operating systems.

- 1 In Windows XP, click **start**, **Control Panel**. In Windows 2000/NT, click **Start**, **Settings**, **Control Panel**.
- 2 In Windows XP, click **Network Connections**. In Windows 2000/NT, click **Network and Dial-up Connections**.
- 3 Right-click **Local Area Connection** and then click **Properties**.

- 4 Select **Internet Protocol (TCP/IP)** (under the **General** tab in Windows XP) and click **Properties**.
- 5 The **Internet Protocol TCP/IP Properties** screen opens (the **General** tab in Windows XP).
- 6 Select the **Obtain an IP address automatically** and **Obtain DNS server address automatically** options.
- 7 Click **OK** to close the **Internet Protocol (TCP/IP) Properties** window.
- 8 Click **Close (OK** in Windows 2000/NT) to close the **Local Area Connection Properties** window.
- 9 Close the **Network Connections** screen.



Viewing Your Product's Certifications

- 1 Go to www.zyxel.com.
- 2 Select your product from the drop-down list box on the ZyXEL home page to go to that product's page.
- 3 Select the certification you wish to view from this page.