P-660RU-T v2

ADSL2+ Ethernet / USB Router

Quick Start Guide

Version 3.40 Edition 1 11/2006



Overview

The P-660RU-T v2 ADSL2+ Ethernet / USB router is the ideal device for small networks or individual computers connecting to the Internet via ADSL. Featuring USB and Ethernet ports, computers can share local resources (such as printers and files) and access to the Internet - simultaneously.

This Quick Start Guide shows you how to:

- 1 Connect the hardware
- 2 Set up Internet access

See your User's Guide for background information on all features.

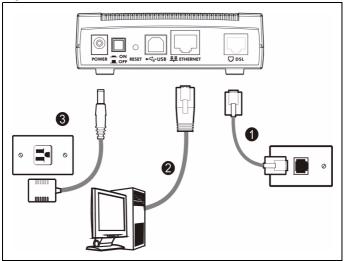
1 Connect the Hardware

There are two ways to connect your computer or computer network to the P-660RU-T v2:

Option A: Connect via Ethernet. See page 2.

Option B: Connect via USB (you will need to install the USB driver). See page 4.

Option A: Connect via Ethernet



- 1 ETHERNET: Use an Ethernet cable to connect a computer to the ETHERNET port for Internet access.
- 2 DSL: Use a telephone wire to connect your P-660RU-T v2's DSL port to a telephone jack (or to a splitter, if one is already installed).
- **3 POWER**: Use only 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-660RU-T v2. Look at the lights on the front panel.

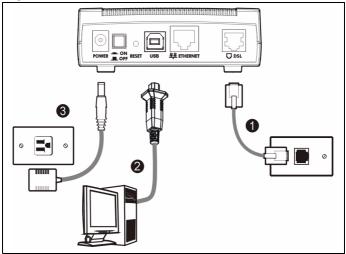
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- The POWER light blinks while performing system testing. It then turns steady on if the testing is successful.
- The DSL light blinks then turns steady on, and blinks when there is traffic.
- The ETHERNET light turns on if the ETHERNET port is properly connected, and blinks when there is traffic.



If none of the LEDs are on, unplug the device and recheck your hardware connections.

Option B: Connect via USB



Note: Do NOT connect the same computer to both the **USB** and **ETHERNET** ports on the P-660RU-T v2.

- 1 USB: Connect the provided USB cable to the P-660RU-T v2's USB port.
- 2 DSL: Use a telephone wire to connect your P-660RU-T v2's DSL port to a telephone jack (or to a splitter, if one is already installed).
- **3 POWER**: Use only 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-660RU-T v2. Look at the lights on the front panel.

- The POWER light blinks while performing system testing. It then turns steady on if the testing is successful.
- The DSL light blinks then turns steady on, and blinks when there is traffic.
- The USB light turns on if the USB port is properly connected, and blinks when there is traffic.



If none of the LEDs are on, unplug the device and recheck your hardware connections.

Install the USB Software

Follow the steps below to install the USB driver.

- 1 Save your work and close all applications.
- 2 Connect the P-660RU-T v2 to a USB port on your computer. A Found New Hardware Wizard screen displays.



If the wizard screen does not display do one of the following: **a**) Disconnect the USB cable and reconnect it. **b**) Use the Windows Device Wizard to manually add the device. **c**) Restart your computer.

- 3 Insert the support CD into your computer CD-ROM drive and select Install the software automatically (Recommended) and click Next to continue.
- 4 Windows starts installing the USB driver.

Windows 2000/XP: If a warning screen displays, click **Yes** or **Continue Anyway**.

Windows 98 SE: If prompted, insert the Windows 98 SE CD and click **OK**.

5 Click Finish to complete the wizard.

2 Set Up Internet Access

You can configure the P-660RU-T v2 for Internet access in any one of three ways:

A: Configuration Genie. See page 8.

B: Zero Configuration. See page 8.

C: Web Configurator Internet Access Wizard. See page 9.



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 are 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 provided by your ISP.

INFORMATION	YOU ARE USING					
FROM ISP	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			

INFORMATION FROM ISP	YOU ARE USING				
	ENCAPSULATION METHOD	MODE	IP ADDRESS		
An IP address, subnet mask and a gateway IP address	ENET ENCAP	Routing	Static		

A: Configuration Genie

From the included CD, click **Multimedia Auto Provisioner** (the installation and configuration assistant) and then click **Installation Tutorial**. After you have viewed the tutorial, click **Configuration Genie** at the end of the installation tutorial or from **Multimedia Auto Provisioner** on the CD.

B: Zero Configuration

Launch your web browser and navigate to any web site (for example, www.zyxel.com). The P-660RU-T v2 automatically detects and configures your Internet connection. This may take about two minutes.

Address Address http://www.zyxel.com

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!**.

DSL Connection Successful						
Your router has established a DSL connection to your local exchange. To log on to the Internet, the router needs the Internet user name and password provided by your ISP.						
Enter your details below and click the Log On button [Instructions]						
Router Configuration Password User Name						
Password						
Log on to the Internet I						

C: Web Configurator Internet Access Wizard

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.

1 In your browser, go to http://192.168.1.1.

2 Enter the default password 1234.





If your browser cannot find this screen, see **Troubleshooting** on page 18.

3 It is strongly recommended that you change the default password in the next screen. If you change it, you will not see this screen the next time you log in.



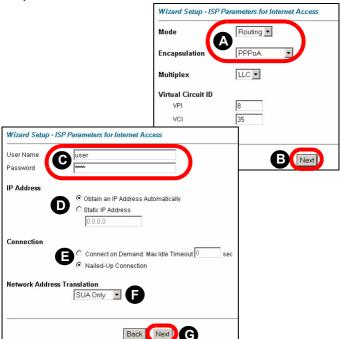
4 See the User's Guide for field descriptions of the Site Map screen. In the navigation panel on the left of the screen, click Wizard Setup. You will need information supplied by your Internet service provider (ISP).



- **5** Configure Internet access settings in this step. The wizard screens vary depending on the **Mode** and **Encapsulation** you choose in the first wizard screen.
 - Enter the Internet access information supplied by your ISP exactly in each wizard screen. If not given, leave the fields at the default setting.

PPPoA

A) Select Routing if your ISP allows multiple computers to share an Internet account. Otherwise, select Bridge. Then select PPPoA. B) Click Next.

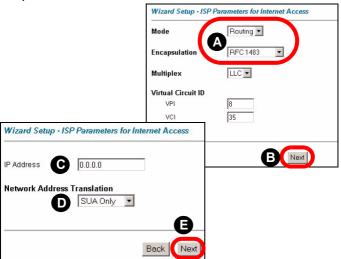


- C) Enter the username and password given by your ISP.
- D) If your ISP gave you an IP address, select Static IP Address and enter it. Otherwise, select Obtain an IP Address Automatically.
- E) Select Nailed-Up Connection to have your connection up all the time. Otherwise, select Connect on Demand

- and specify an idle time-out period (in seconds) in the **Max. Idle Timeout** field.
- 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.

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.

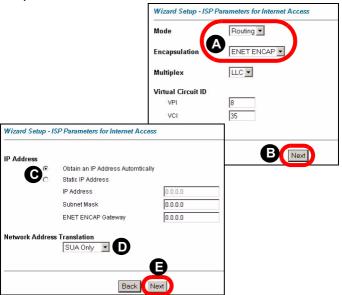


- C) If you selected Routing, enter the IP address given by your ISP.
- D) If you selected Routing, select SUA Only when you have one public IP address, Full Feature when you have more than one public IP address (for translation) or None to disable NAT.
- E) Click Next.

ENET ENCAP

A) Select Routing, then ENET ENCAP.

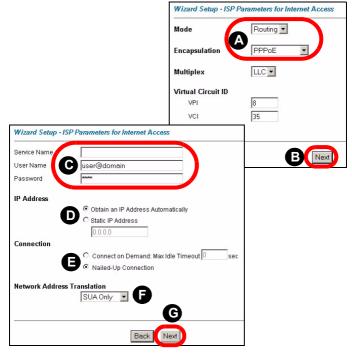
B) Click Next.



- 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.

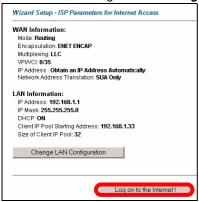
PPPoE

- A) Select Routing, then PPPoE.
- B) Click Next.

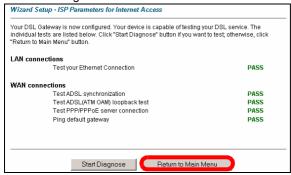


C) Enter the service name, username and password supplied by your ISP.

- D) If your ISP gave you an IP address, select Static IP Address and enter it. Otherwise, select Obtain an IP Address Automatically.
- E) 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.
- **F)** 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.
- G) Click Next.
- 8 To change the LAN information on the P-660RU-T v2, click Change LAN Configuration. Otherwise, verify your LAN and WAN settings and click Log on to the Internet!.



9 To test the connection from the P-660RU-T v2 to the ISP, click Start Diagnose. Otherwise click Return to Main Menu to go back to the main screen.



Troubleshooting

- 1 If you cannot access the web configurator using Internet Explorer in Windows XP or Windows Server 2003, take the following steps.
 - A) Check the cable connection from your computer to the P-660RU-T v2.
 - B) Make sure you enter the password correctly (the field is case sensitive). If you have forgotten the P-660RU-T v2'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-660RU-T v2 to the factory defaults (IP address 192.168.1.1, password 1234).

- C) Make sure your computer's IP address is in the same subnet as the P-660RU-T v2's IP address (see page 20).
- D) Ping the P-660RU-T v2 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-660RU-T v2's LAN IP address (192.168.1.1 is the default) and then press [ENTER]. The P-660RU-T v2 should reply; if it does not, see page 20.
- E) If the P-660RU-T v2's IP address has changed, enter the new one as the URL. If you have forgotten the new IP address, use the **RESET** button (see step B).
- F) Make sure you allow pop-up windows, JavaScripts and Java permissions or set the Internet security level lower than High in Internet Explorer (in Internet Explorer, click Tools > Internet Options > Security > Custom Level...). See the appendix in the User's Guide for more information.
- G) If your computer is connected to the USB port, reinstall the USB driver. Make sure that your computer is running one of the following operating systems: Windows 98SE / ME / 2000 / XP or Mac OS X.
- 2 If you cannot access the Internet when your computer is connected to the ETHERNET or USB port, follow these steps.

- A) Check the lights on the front panel. If they are different from what is described in section 1, make sure the connections are correct. If the lights are still different, turn off the device, wait a few seconds, and turn it on again.
- B) Follow the steps in section 2 again. Make sure you enter the correct information. For example, if your account has a user name and password, make sure you type it correctly. In addition, if you are not sure which encapsulation your ISP uses, contact your ISP.
- C) If you are using a new Internet account, contact your ISP to make sure it is active.
- D) If you still have problems, see Troubleshooting in the User's Guide.

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-660RU-T v2. Refer to your User's Guide for detailed IP address configuration for other Windows and Macintosh computer operating systems.

1 Click start (Start in Windows 2000/NT) > Settings > Control Panel.

2 In the Control Panel, double-click Network Connections (Network and Dial-up Connections in Windows 2000/ NT).

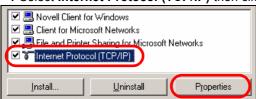


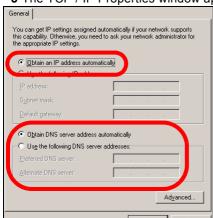


3 Right-click Local Area Connection then click Properties.



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





5 The TCP / IP Properties window appears.

Select **obtain an IP address automatically** and click **OK** to have the P-660RU-T v2 assign your computer an IP address.

- 6 If your Internet Service Provider (ISP) gave you Domain Name System (DNS) settings, enter them in the Use the following DNS server addresses fields. If you are not sure of your DNS settings, contact your ISP.
- 7 Click Advanced.Remove any previously installed gateways in the IP Settings tab and click OK to go back to the Internet Protocol TCP/IP Properties screen.
- 8 Click OK to close the Internet Protocol (TCP/IP) Properties window.
- 9 Click Close (OK in Windows 2000/NT) to close the Local Area Connection Properties window.

Close the **Network Connections** window (**Network and Dial-up Connections** in Windows 2000/NT).

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.

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