

# **P-2602R/RL-DxA**

ADSL2+ VoIP IAD

## **Quick Start Guide**

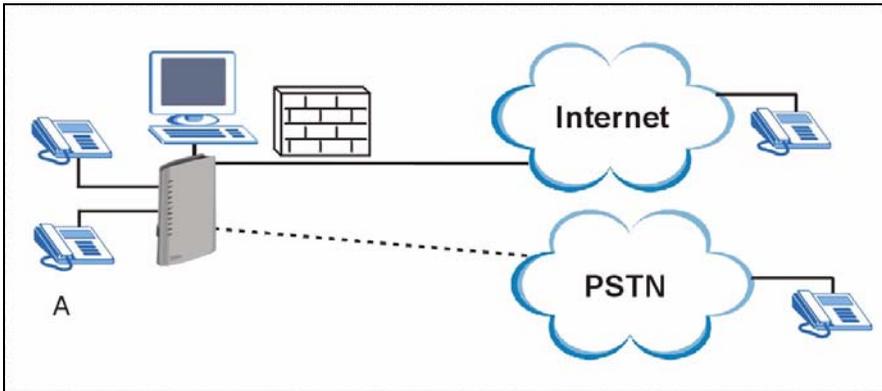
Version 3.40  
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Edition 1

The logo for ZyXEL, featuring the word "ZyXEL" in a bold, blue, sans-serif font. The "Zy" is in a smaller font size than "XEL", and the "y" has a distinctive shape with a curved bottom.

## Overview

The P-2602R/RL-DxA ADSL2+ VoIP Integrated Access Device (IAD) is an ADSL2+ router with phone ports for making calls over the Internet (Voice over IP or VoIP). It can also use regular phone services through regular (PSTN) phone lines. See the User's Guide for more information on all features.

The following figure shows how your P-2602R/RL-DxA (**A**) connects your network to the Internet, provides firewall protection and allows you to make telephone calls over the Internet. Additionally, the P-2602RL-D model can be used to make calls over regular telephone (PSTN) lines.



## 1 Requirements

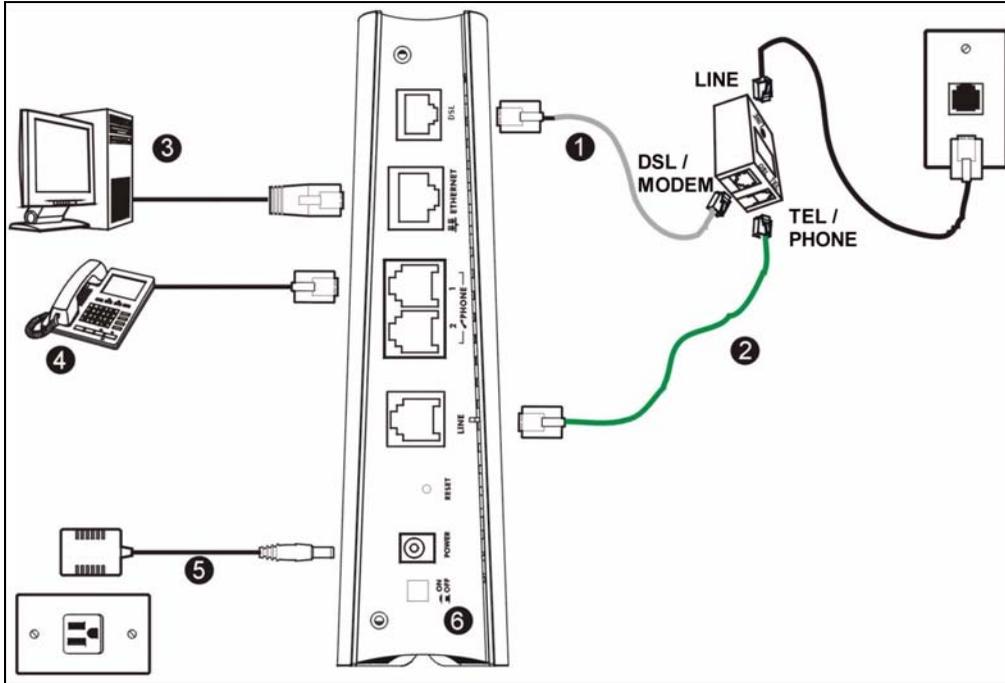
Make sure you have the following things before you set up your P-2602R/RL-DxA.

- Internet access - account information provided by your ISP, such as user name, password, and so on.
- VoIP account - You need the account information provided by your VoIP service provider (the company that lets you make phone calls over the Internet). This information might include your URI, number, and so on.
- Internet Explorer 6.0 or later or Netscape Navigator 7.0 or later, with JavaScript enabled.

## 2 Hardware Connections

Hardware connections vary by model. The P-2602RL-DxA models have a built in lifeline and the P-2602R-DxA do not.

## 2.1 P-2602RL-DxA Hardware Connections



- 1 DSL:** Use the gray ADSL cable to connect the telephone jack or the **DSL** or **MODEM** jack on a splitter to this port.
- 2 LINE:** Use the green PSTN line cable to connect the telephone jack or the **TEL** or **PHONE** jack on a splitter to this port.

**Note:** When the P-2602R/RL-DxA does not have power, only the phone connected to the **PHONE 2** port can be used for making calls. Ensure you know which phone this is, so that in case of emergency you can make outgoing calls.

- 3 ETHERNET:** Use an Ethernet cable to connect a computer to this port for initial configuration and/or Internet access.
- 4 PHONE 1-2:** Use telephone cables (and any telephone adaptors provided with your P-2602RL-DxA) to connect your telephones to these ports. If you only have one telephone, you should use port 1.
- 5 POWER:** Use the power adaptor provided with your P-2602RL-DxA to connect an appropriate power source to this socket.

**Note:** If you are using T-ISDN (UR-2), connect the green wire to a TAE connector before connecting it to a telephone wall jack or the telephone splitter's **TEL** or **PHONE** jack.

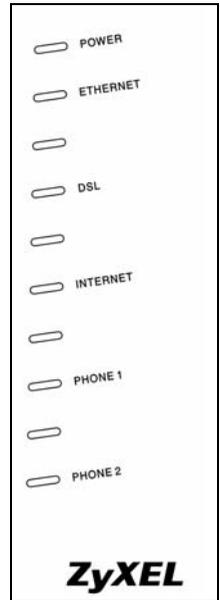
**6** Push in the **POWER** button. Look at the lights on the front panel of the P-2602RL-DxA.

- The **POWER** light blinks during start-up and is green once the P-2602RL-DxA is ready.
- Each **ETHERNET** light turns on if the corresponding **ETHERNET** port is properly connected. The lights blink when the P-2602RL-DxA is sending or receiving data through the corresponding **ETHERNET** port.
- The **DSL** light stays on if a physical connection with the ISP is established. The **INTERNET** light stays on when Internet access is available.
- The **PHONE** lights stay on when your SIP account is registered and they blink if the receiver is off hooked.

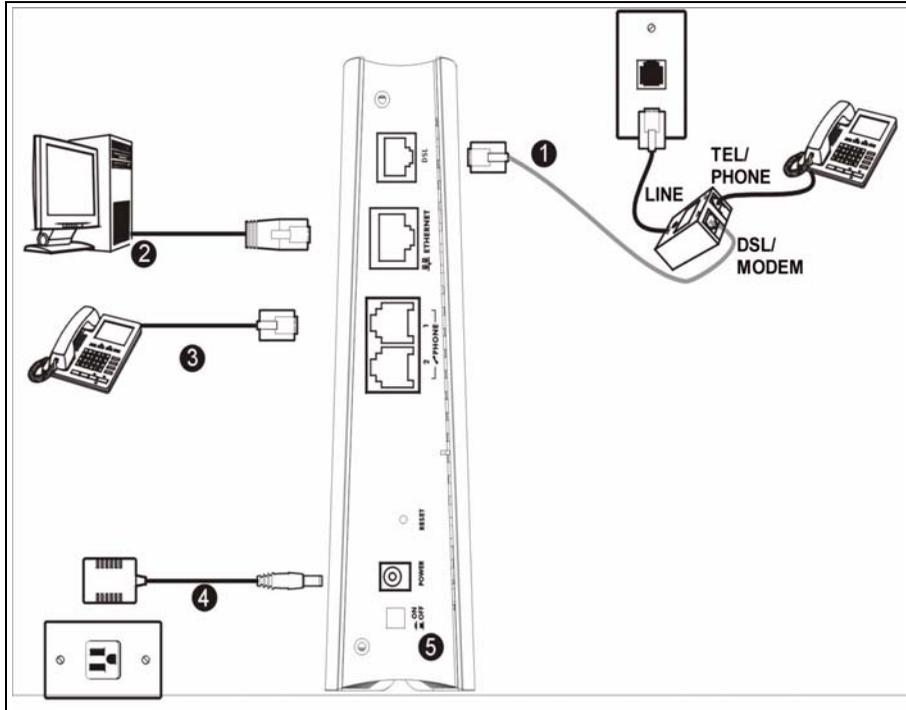
If **PHONE 1** or **PHONE 2** light is on, skip to Section [4](#) to see how to make calls through the Internet.

If the **INTERNET** light comes on but the **PHONE** lights are off, go to Section [3.2](#) and use the **VOICE OVER INTERNET SETUP** wizard.

If the **INTERNET** light is off but the **DSL** light is on, go to Section [3.1](#) and use the **INTERNET SETUP** wizard to configure your Internet access settings.



## 2.2 P-2602R-DxA Hardware Connections



- 1 DSL:** Use the gray ADSL cable to connect the telephone jack or the **DSL** or **MODEM** jack on a splitter to this port.
- 2 ETHERNET:** Use an Ethernet cable to connect a computer to this port for initial configuration and/or Internet access.
- 3 PHONE 1-2:** Use a telephone cable (and any telephone adaptors provided with your P-2602R-DxA) to connect your telephones to these ports. If you only have one telephone, you should use port 1.
- 4 POWER:** Use the power adaptor provided with your P-2602R-DxA to connect an appropriate power source to this socket.

**Note:** If you are using T-ISDN (UR-2), connect the green wire to a TAE connector before connecting it to a telephone wall jack or the telephone splitter's **TEL** or **PHONE** jack.

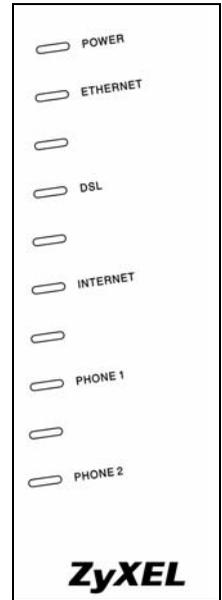
**5** Push in the **POWER** button. Look at the lights on the front panel of the P-2602R-DxA.

- The **POWER** light blinks during start-up and is green once the P-2602R-DxA is ready.
- Each **ETHERNET** light turns on if the corresponding **ETHERNET** port is properly connected. The lights blink when the P-2602R-DxA is sending or receiving data through the corresponding **ETHERNET** port.
- The **DSL** light stays on if a physical connection with the ISP is established. The **INTERNET** light stays on when Internet access is available.
- The **PHONE** lights stay on when your SIP account is registered and they blink if the receiver is off hooked.

If **PHONE 1** or **PHONE 2** light is on, skip to Section 4 to see how to make calls through the Internet.

If the **INTERNET** light comes on but the **PHONE** lights are off, go to Section 3.2 and use the **VOICE OVER INTERNET SETUP** wizard.

If the **INTERNET** light is off but the **DSL** light is on, go to Section 3.1 and use the **INTERNET SETUP** wizard to configure your Internet access settings.



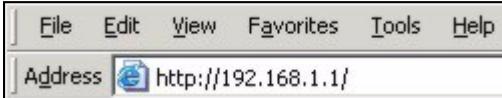
### 3 Initial Configuration

Open your web browser, and go to <http://www.zyxel.com>.

Your P-2602R/RL-DxA tries to detect your Internet connection. This takes about two minutes. If any other screens appear, follow the directions in the screen.

If <http://www.zyxel.com> opens correctly, your Internet access is ready. If the web page does not open, use the following steps. You should have information provided by your ISP.

1 Open your browser, and go to <http://192.168.1.1>.



2 Enter the password **1234**. Then, click **Login**.

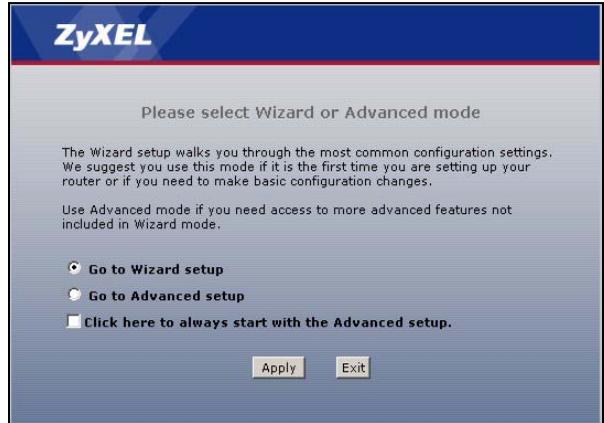


If your browser cannot find this screen, make sure your browser is configured correctly. See **Troubleshooting** in the User's Guide for details.

3 Type (and retype) a new password and click **Apply**.



4 Click **Go to Wizard setup**. Then, click **Apply**.

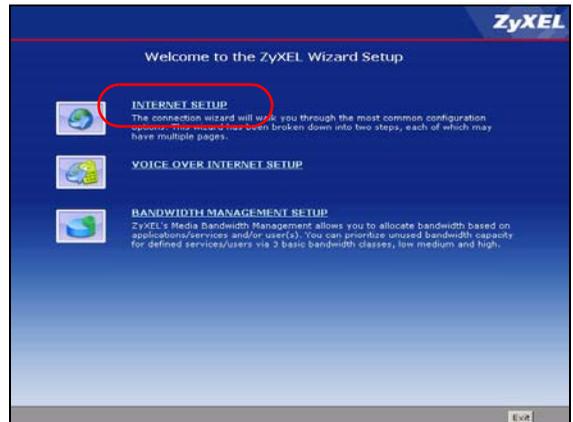


### 3.1 Internet Setup

**Note:** You should have the information provided by your ISP.

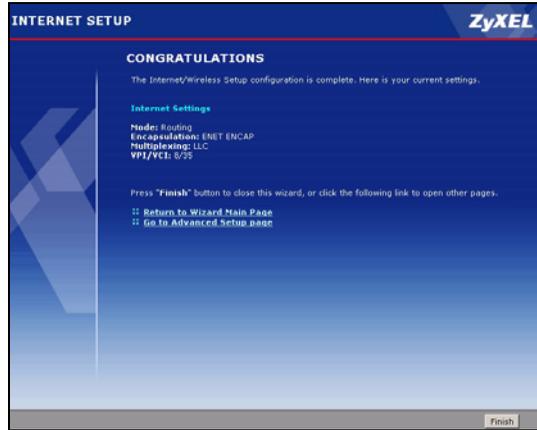
1 Click **INTERNET SETUP**.

Wait while the P-2602R/RL-DxA tries to detect your Internet connection. If the P-2602R/RL-DxA cannot detect your Internet connection, follow the directions in the screens. Enter the information provided by your ISP. Keep the default settings if your Internet service provider did not provide some information.



When your Internet connection is setup correctly, the **INTERNET** light should be green, and the following screen appears.

- 2 Confirm that your Internet setup settings are correct and click **Return to Wizard Main Page** to continue with VoIP setup.

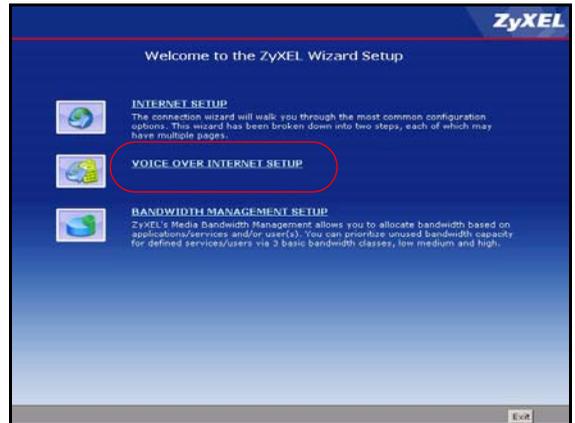


### 3.2 VoIP Setup

**Note:** You should have the information provided by your VoIP service provider.

Click **VOICE OVER INTERNET SETUP**.

Enter the information provided by your VoIP service provider. Keep the default settings if your VoIP service provider did not provide some information. If you have a SIP account like **1234567@VoIP-provider.com**, the **SIP Number** is **1234567**, and the **SIP Service Domain** is **VoIP-provider.com**.



When you are done, the **PHONE** light should be on. Click **Exit** to close the wizard and the main screen appears.

### 3.3 Regular Phone Line Setup (“L” models)

When one of your VoIP accounts is registered, the P-2602RL-DxA normally uses the Internet (not the regular phone line) to make phone calls. Follow the directions in this section to make sure you can also use the regular phone line while one of your VoIP accounts is registered.

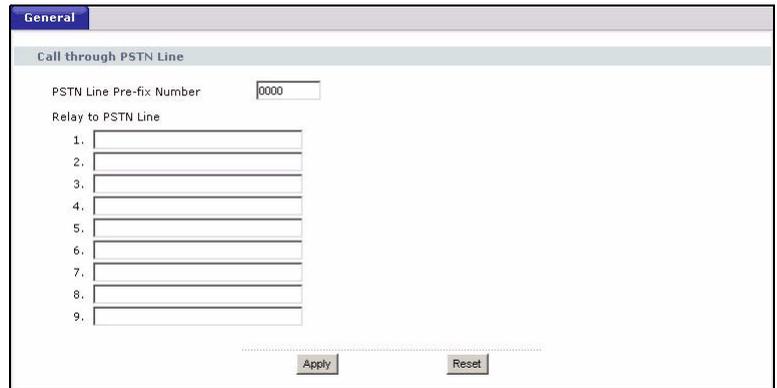
**Note:** When the ZyXEL Device does not have power, only the phone connected to the **PHONE 2** port can be used for making calls. Ensure you know which phone this is, so that in case of emergency you can make outgoing calls.

In the main screen, click **VoIP > PSTN Line**.



**PSTN Line Pre-fix Number:** Enter 1 - 7 numbers you dial before you dial the phone number, if you want to make a regular phone call while one of your SIP accounts is registered. These numbers tell the ZyXEL device that you want to make a regular phone call.

**Relay to PSTN Line:** Enter phone numbers for regular phone calls (that do not use the Internet) that you always want to dial without the prefix number. For example, enter emergency phone numbers here.



Click **Apply**.

## 4 Phone Calls

Follow these directions to make calls over the Internet.

- If you want to dial a SIP number that only uses numbers (for example, “12345”), dial the number on your phone’s keypad. You can also set up a speed-dial entry, if you want. See the User’s Guide for instructions.

- If you want to dial a SIP number that uses letters or if you want to make a peer-to-peer call, set up a speed-dial entry first. See the User's Guide for instructions. Then, dial the speed-dial number to make the call.
- If you want to call regular telephone numbers, use your VoIP service provider's dialing plan.

For the P-2602RL-DxA, follow these directions to make phone calls that do not use the Internet.

- If you set up the phone number in the **Relay to PSTN** section (Section 3.3), just dial the phone number.
- If the **PHONE** light is off, just dial the phone number.
- Otherwise, first dial the prefix you set in Section 3.3, and then dial the phone number.

Follow these directions to call the phone that is connected to the P-2602R/RL-DxA.

- (P-2602R-DxA) Use your VoIP service provider's dialing plan. The P-2602R-DxA must be on.
- (P-2602RL-DxA) Use your VoIP service provider's dialing plan, or just dial the phone number.

## Troubleshooting

If you cannot access the Internet, follow these steps.

- 1 Check the device's lights. If they are different than what is described in Section 2, make sure the connections are correct, and inspect your cables for damage. If the lights are still different, turn off the device, wait a few seconds, and turn it on again.
- 2 Follow the steps in Section 3 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.
- 3 If you are using a new Internet account, contact your ISP to make sure it is active.
- 4 If you still have problems, see **Troubleshooting** in the User's Guide.

If you can access the Internet, but you cannot make calls through the Internet, follow these steps.

- 1 Check the **PHONE** lights. If neither of them is on, make sure that your telephone is connected to the corresponding phone port.
- 2 Make sure the **VOICE OVER INTERNET SETUP** wizard screens are properly configured (see Section 3.1).
- 3 You can also check the VoIP status in the **Status** screen. See the User's Guide for more information about this screen.

## Viewing Your Product's Certifications

- 1 Go to [www.zyxel.com](http://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.