P-2302R Series

VoIP Station Gateway

Quick Start Guide

Version 3.60
6/2005

ZyXEL
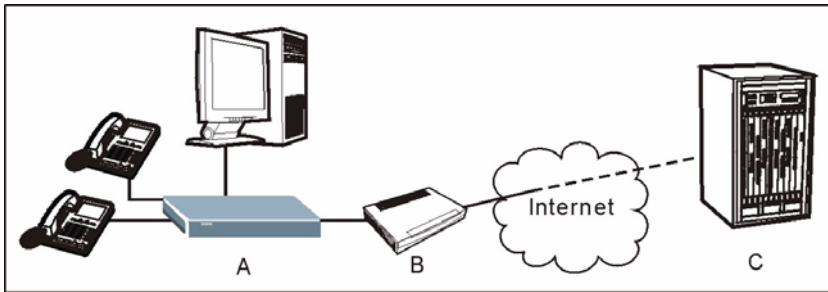
Overview

This *Quick Start Guide* covers the Prestige (P-2302R) and (P-2302RL) models. It explains how to use your Prestige to make phone calls through the Internet. See your *User's Guide* for more information on all features.

The P-2302RL's lifeline feature adds regular phone services (that do not use the Internet).

The following figure shows your Prestige (A) connected to the modem or router that provides your Internet connection (B). C is your voice service provider.

This guide is divided into the following sections.

1 Requirements
2 Hardware Connections
3 Initial Configuration

4 Make Calls Through the Internet
5 Troubleshooting

1 Requirements

You need the following:

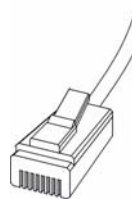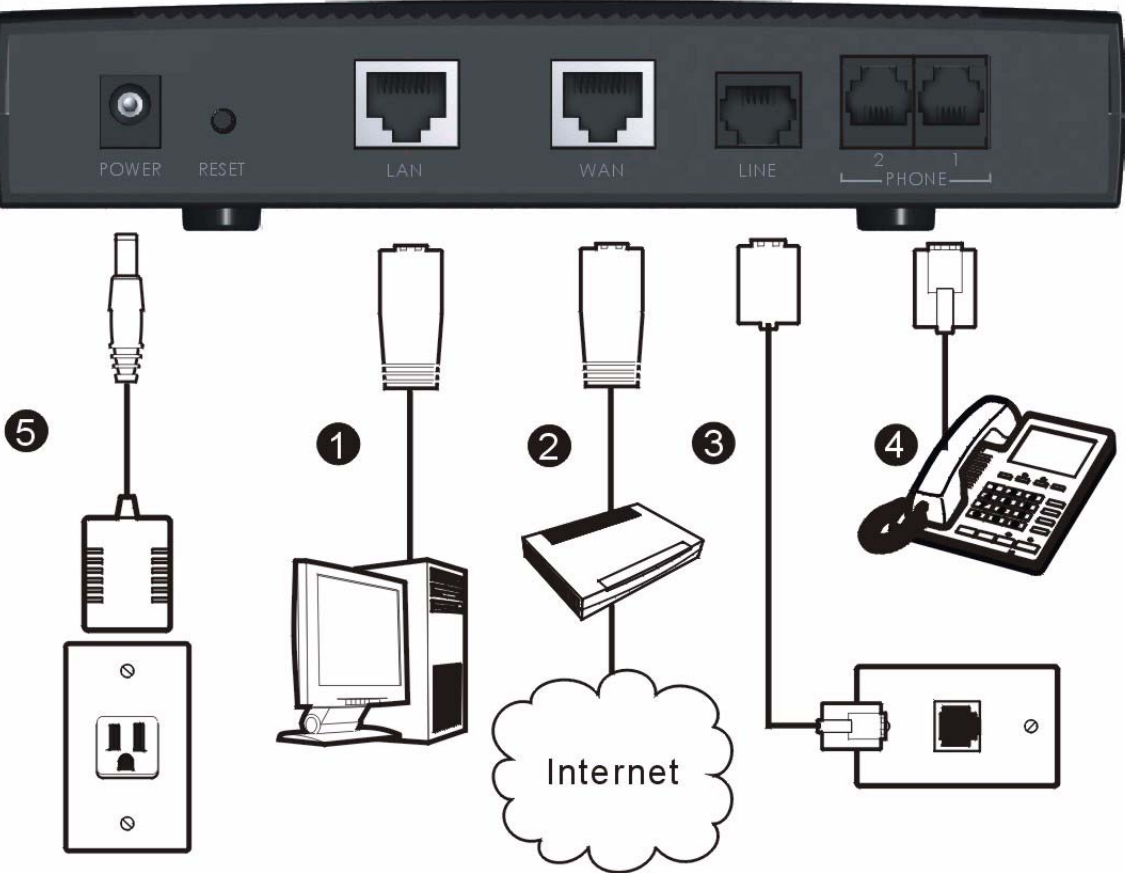| **Prestige**	**Computer**	**Telephone**	**Broadband Modem or Router**
Power Adaptor	**Telephone Cable**	**Ethernet Cable**	**Note:** You should have Internet access and a voice account already set up.

2 Hardware Connections

1 LAN: Connect a computer or an Ethernet switch to this port with an Ethernet cable.

2 WAN: Connect a broadband modem or router to this port with an Ethernet cable.

3 LINE: (P-2302RL only). Use telephone wire to connect this port to the telephone jack. This is a FXO (Foreign Exchange Office) port.

4 Phone 1-2: Connect one or more analog telephones to these ports using telephone wire. These are FXS (Foreign Exchange Station) ports.

5 POWER: Use the included power adaptor to connect this power socket to an appropriate power source (see the *User's Guide* for power adaptors by region).

The **PWR/VoIP** LED flashes during system startup and stays on after the system self-tests are successful. The **WAN** and **LAN** LEDs turn on if the WAN and LAN ports are properly connected (they flash when sending or receiving data).

3 Initial Configuration

In this section you will access your Prestige and configure it for Internet access and making phone calls through the Internet. Instructions are also provided for configuring the P-2302RL to make regular calls.

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

Address [http://192.168.1.1/]

2 Click **Login.** See if this screen does not open.

Prestige 2302R

Enter Password and click Login.

Password: ●●●●●●

[Login]   [Reset]

3 Type a new password (and retype it to confirm) and click **Apply**. Otherwise click **Ignore**.
The web configurator **MAIN MENU** screen displays.

Use this screen to change the password.

New Password: ●●●●●●

Retype to Confirm:

[Apply]   [Ignore]

4 Click **WIZARD SETUP**.

ZyXEL

WIZARD
  WIZARD SETUP

ADVANCED
  SYSTEM
  LAN
  WAN
  VOIP
  PHONE
  PHONEBOOK
  SUA/NAT
  STATIC ROUTE
  FIREWALL
   CONTENT
   FILTER
  REMOTE MGNT
  UPNP
  LOGS
  BW MGMT

MAINTENANCE

LOGOUT

MAIN MENU

Welcome to the ZyXEL embedded web configurator.

- **Click Wizard Setup to configure your system for Internet access.**

- **Click Maintenance to access a range of maintenance submenus.**

3.1 General Setup (Optional)

This screen is optional. You can just click **Next**.

System Name is for identifying the Prestige. You can enter your computer's "Computer Name".

Domain Name: Manually enter a domain name if you want to. You can also leave it blank or set to whatever may have displayed automatically.

General Setup:

This information is optional, but may be helpful in accessing services of your Internet Service Provider, such as mail and news servers and customer support web pages.

Enter a descriptive name for identification purposes. We recommend using your computer's name.

System Name: P2302R

The ISP's domain name is often sent automatically by the ISP to the router. If you are having difficulty accessing ISP services, you may need to enter the Domain Name manually in the field below.

Domain Name:

Next

3.2 Internet Access Setup

If you were given Internet access settings, enter them in the fields. Otherwise leave the default settings and just click **Next**.

Note: This screen varies depending on the encapsulation you use.

3.2.1 Ethernet

Service Type: Use **Standard** unless you were given a Road Runner type.
The following apply with the Road Runner service types.
User Name
Password
Login Server IP Address (if provided)

ISP Parameters for Internet Access

Encapsulation	Ethernet
Service Type	Standard
User Name	N/A
Password	N/A
Login Server IP Address	N/A

Back Next

3.2.2 PPP over Ethernet

If you are *not* using **Ethernet** encapsulation and are given a username and password, you are using **PPP over Ethernet** encapsulation. Enter the information provided.

Select **Nailed-Up Connection** when you want your connection up all the time (this could be expensive if your ISP bills you for Internet usage time instead of a flat monthly fee).

To not have the connection up all the time, specify an idle time-out period (in seconds) in **Idle Timeout**.

ISP Parameters for Internet Access

Encapsulation	PPP over Ethernet ▼
Service Name	
User Name	
Password	*********
☐ Nailed-Up Connection	
Idle Timeout	100 (Seconds)

Back Next

3.3 WAN IP Address and DNS Server Settings

If you were given IP address and/or DNS server settings, enter them in the fields.

Otherwise leave the default settings and just click **Next**.

WAN IP Address Assignment

● Get automatically from ISP (Default)
○ Use fixed IP address

My WAN IP Address	0.0.0.0
My WAN IP Subnet Mask	0.0.0.0
Gateway IP Address	0.0.0.0

System DNS Servers

First DNS Server	From ISP ▼
	0.0.0.0
Second DNS Server	From ISP ▼
	0.0.0.0
Third DNS Server	From ISP ▼
	0.0.0.0

WAN MAC Address

● Factory Default
○ Spoof this Computer's MAC   192.168.1.33
Address - IP Address

Back Next

3.4 SIP Account 1 Setup

Note: You should have a voice account already set up.

Fill in the fields with information from your voice service provider. Leave the default settings in fields for which no information was provided (except if otherwise specified).

Note: This screen configures SIP account 1. See the User's Guide for details on using the VoIP screens to configure SIP account 2.

If you have a SIP account like 1234@VoIP-provider.com,"1234" would be the **SIP Number** and "VoIP-provider.com" would be the **SIP Service Domain**.

REGISTER Server Address/**Port:** If you have no registrar server information, copy what you entered in the **SIP Server Address**/**Port** fields.

Voice Compression Type: Use the setting you were given, otherwise leave the default setting.

NAT Passthrough Type: Use **NONE** unless you were told to use a STUN or outbound proxy server.

Server Address/Port: Enter the STUN or outbound proxy server's information.Ignore these fields if you selected **NONE** for the **NAT Passthrough Type**.

Country Code: Select the country where your Prestige is located.

Click **Finish**.

The **PWR/VoIP** LED turns orange after the Prestige registers your SIP account.

SIP1 Settings		
SIP Number	ChangeMe	
SIP Local Port	5060	(1024-65535)
SIP Server Address	server.sip.net	
SIP Server Port	5060	(1024-65535)
REGISTER Server Address	server.sip.net	
REGISTER Server Port	5060	(1024-65535)
SIP Service Domain	server.sip.net	
Authentication		
Authentication User-ID	ChangeMe	
Authentication Password	**********	
Voice Compression Type	G.711 > G.729 ▾	
NAT Passthrough Type	NONE ▾	
Server Address		
Server Port	0	(1024-65535)
DTMF Mode	RFC 2833 ▾	
Country Code	USA ▾	
	Back	Finish

3.5 Speed Dial Configuration

Click **PHONE BOOK** in the navigation panel and then **Speed Dial**.

Speed dial provides shortcuts for dialing frequently used (VoIP) phone numbers.

You can use speed dial entries for peer-to-peer calls or SIP numbers that use letters.

Select a speed dial key combination.

Enter the SIP number of the party you will call and a name to identify them.

Select **Use Proxy** if calls to this party use your SIP account.

Select **Non-Proxy (Use IP or URL)** if calls to this party use a different SIP server or go directly to the callee's VoIP phone (peer-to-peer). Enter the SIP server's or the party's IP address or domain name.

Click **Add**.

3.6 Lifeline Configuration (P-2302RL)

Click **PHONE BOOK** in the navigation panel and then **Lifeline**.

PSTN Pre-fix Number: If you want to make a regular call when the **PWR/VoIP** LED is orange, dial the prefix number that you configure here and the phone number.

If the **PWR/VoIP** LED is green or off, make regular calls without a prefix number.

Relay to PSTN: Enter phone numbers that should use the regular phone service (without the prefix number). Do this for emergency numbers. The numbers must be for regular phones (not VoIP phones).

Click **Apply**.

PHONE BOOK

Speed Dial	Lifeline

PSTN Pre-fix Number `0000`

Relay to PSTN

1. _____
2. _____
3. _____
4. _____
5. _____

Apply   Reset

4 Make Calls Through the Internet

Dial a numerical SIP number (like "12345" for example) on your phone's keypad.

Use speed dial entries for peer-to-peer calls or SIP numbers that use letters. Dial the speed dial entry on your telephone's keypad.

Use your voice service provider's dialing plan to call regular telephone numbers.
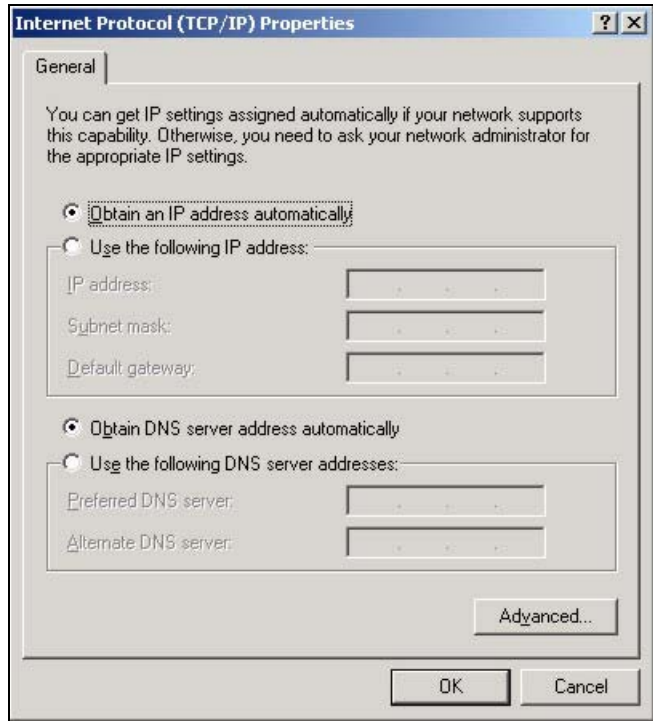
5 Troubleshooting

PROBLEM	CORRECTIVE ACTION
None of the LEDs turn on when you connect the Prestige's power.	Make sure that you have the correct power adaptor connected to the Prestige and an appropriate power source. Make sure that the power source is turned on. 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.
Cannot access the Prestige from my computer.	Check the cable connection from your computer to the Prestige.
	Make sure your computer's IP address is in the same subnet as the Prestige's IP address (see Section 5.1 on page 10).
	Make sure your computer's Ethernet adapter is installed and functioning properly.
Cannot access the web configurator.	If the Prestige's IP address has changed, then enter the new one as the URL.
	Use Internet Explorer 6.0 and later or Netscape Navigator 7.0 and later with JavaScript enabled.
	Make sure you enter the password correctly (the field is case sensitive).
	If you've changed the Prestige's password and forgotten it, use the **RESET** button. Press the button in for about 10 seconds (or until the **PWR** LED starts to blink), then release it. It returns the Prestige to the factory defaults (password is 1234, LAN IP address 192.168.1.1 etc.; see your User's Guide for details).
Cannot access the Internet.	Verify the Internet connection settings in the wizard. Make sure you entered the correct user name and password if you are using PPPoE.
There is no dial tone.	Check the telephone connections.
	You can test the telephone wire by using it to connect a telephone to a regular telephone outlet and checking for a dial tone.
The dial tone beeps (pulses). I can't make calls.	Make sure you have the wizard screens properly configured.
	You can also check the Prestige's IP addresses and SIP account 1's registration status in the **Maintenance Status** screen. The dial tone will be steady (and you should be able to make calls) after the SIP account is registered.

5.1 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 with your Prestige. 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 Win 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.

Internet Protocol (TCP/IP) Properties	? X

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

● Obtain an IP address automatically
○ Use the following IP address:

IP address:

Subnet mask:

Default gateway:

● Obtain DNS server address automatically
○ Use the following DNS server addresses:

Preferred DNS server:

Alternate DNS server:

Advanced...

OK   Cancel

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.