

Prestige 660H Series

ADSL 2+ 4-Port Gateway

Prestige 660HW Series

ADSL 2+ 4-Port Gateway with 802.11g Wireless

Quick Start Guide

Version 3.40
5/2005

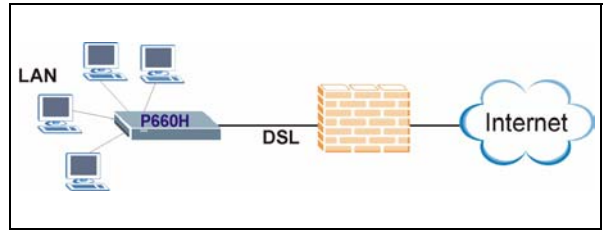
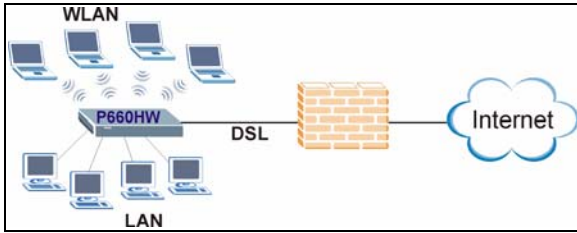
The logo for ZyXEL, featuring the word "ZyXEL" in a bold, blue, sans-serif font. The "Zy" is in a smaller font size than "XEL", and the "X" is significantly larger and more prominent.

Overview

The Prestige 660H (P660H) and Prestige 660HW (P660HW) are ADSL routers with a built-in switch. The Prestige 660HW also has IEEE 802.11g wireless capability. All wireless features pertain to the P660HW series only.

You may need your Internet access information.

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



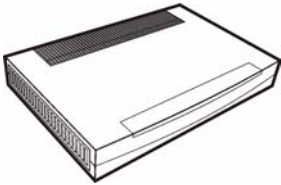
This guide is divided into the following sections.

- 1 Hardware Connections
- 2 Configuration for Internet Access
- 3 Wireless Configuration (P660HW)
- 4 NAT
- 5 Firewall
- 6 Troubleshooting

1 Hardware Connections

You need the following before you start.

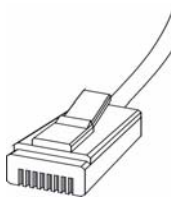
Prestige



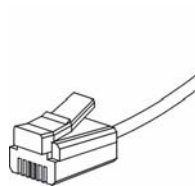
Computer(s)



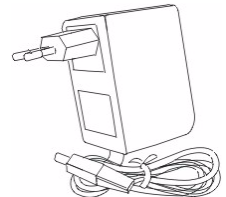
Ethernet Cable



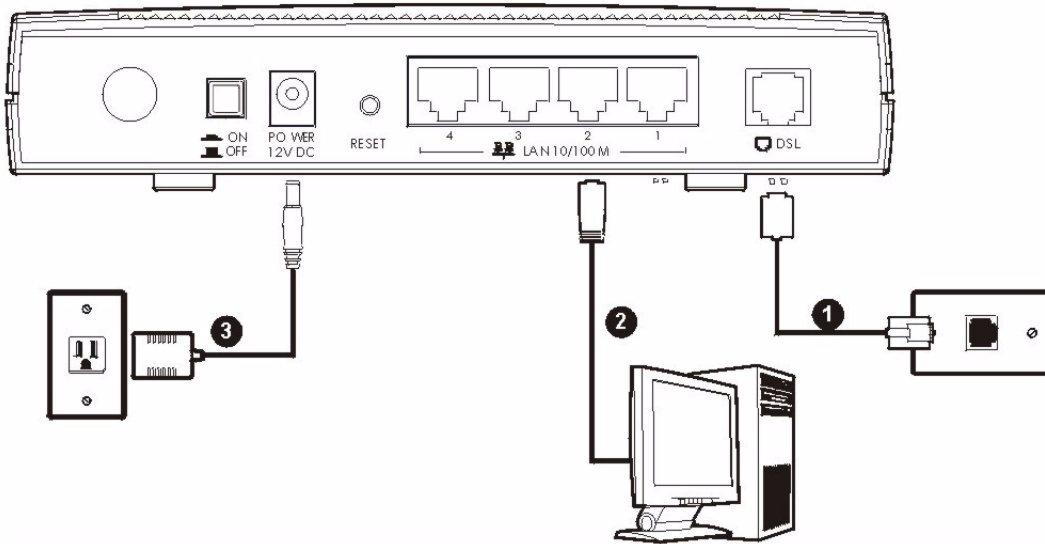
Telephone Cable



Power Adaptor



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



- 1 DSL:** Connect the Prestige to a telephone jack using a telephone wire.
- 2 LAN:** Use an Ethernet cable to connect a computer to a LAN 10/100M 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 (see the User's Guide for power adaptors specifications by region).

After you've made the connections, push in the power button to turn on the Prestige. Look at the front panel LEDs. The **PWR/SYS** LED blinks while performing system testing. The **PWR/SYS** and/or **WLAN** LEDs then turn steady on if the testing is successful. The **LAN** LEDs turn on if the (corresponding) LAN ports are properly connected.

2 Configuration for Internet Access

You may configure the Prestige for Internet access in any *one* of these ways:

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

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 Prestige 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 **Apply**.

Enter the system password and username and password exactly as your ISP assigned them.

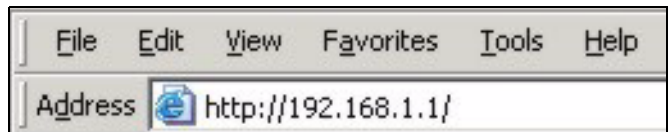
System Password	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="text"/>

Note: Configuration Genie or 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.

2.3 Accessing the Web Configurator

- 1 Launch your web browser. Enter “192.168.1.1” as the web site address.

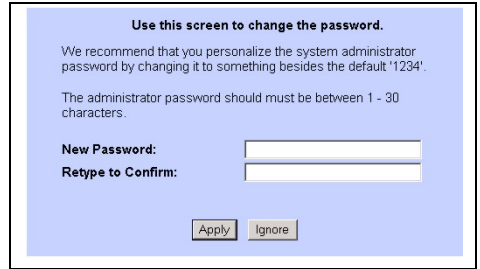


Note: If you do not see the next screen, then please read [Section 6.1 on page 11](#)

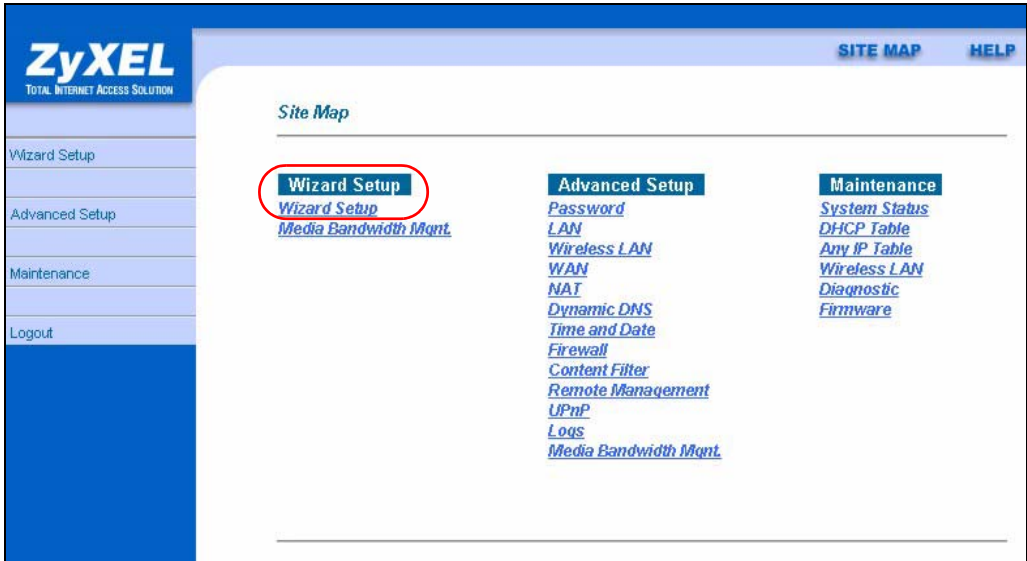
2 Click **Login**.



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 **MAIN MENU** screen, click **WIZARD SETUP**.



2.3.1 Internet Access Setup

Note: Enter the Internet access information given to you by your ISP exactly in each wizard screen and then click **Next** to continue or click **Back** to return to the previous screen.

Screen information is not saved when you click **Back**.

1 From the **Mode** drop-down list box, select **Routing** (default) if you want to use routing features such as NAT.

2 The next wizard screen varies depending on the **Encapsulation** you chose in the first wizard screen. From the **Network Address Translation** drop-down list box, 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.

• **PPPoE.**

Select **Connect on Demand** when you don't want the connection up all the time and specify an idle time-out period (in seconds) in the **Max. Idle Timeout** field.

Select **Nailed-Up Connection** when you want your connection up all the time. The Prestige will try to bring up the connection automatically if it is disconnected.

• **ENET ENCAP**

Note: You will only see the next two screens in **Routing** mode.

• **PPPoA**

The screenshot shows the 'Wizard Setup - ISP Parameters for Internet Access' screen. It includes fields for 'User Name' and 'Password'. Under 'IP Address', the 'Obtain an IP Address Automatically' radio button is selected. Under 'Connection', the 'Connect on Demand: Max Idle Timeout' is set to 0 seconds. The 'Network Address Translation' dropdown is set to 'SUA Only'. 'Back' and 'Next' buttons are at the bottom.

• **RFC1483**

The screenshot shows the 'Wizard Setup - ISP Parameters for Internet Access' screen. The 'IP Address' field is set to 0.0.0.0. The 'Network Address Translation' dropdown is set to 'SUA Only'. 'Back' and 'Next' buttons are at the bottom.

3 Verify your LAN and WAN settings.

To change the LAN settings, click **Change LAN Configuration** otherwise click **Save Settings** to save the configuration and go to the final wizard screen. If you change the Prestige's LAN IP address, you must use the new IP address if you want to access the web configurator again.

The screenshot shows the 'Wizard Setup - ISP Parameters for Internet Access' screen with 'WAN Information' and 'LAN Information' displayed. The WAN information includes Mode: Routing, Encapsulation: PPPoE, Multiplexing: LLC, VPI/VCI: 8/35, Service Name, User Name: user@isp.ch, Password: *****, IP Address: Obtain an IP Address Automatically, NAT: SUA Only, and Connect on Demand: Max Idle Timeout 1500 Secs. The LAN information includes IP Address: 192.168.1.1, IP Mask: 255.255.255.0, DHCP: ON, Client IP Pool Starting Address: 192.168.1.32, and Size of Client IP Pool: 32. There are buttons for 'Change LAN Configuration' and 'Save Settings'.

4 Click **Save Settings** in the screen shown in step 3 to go to the final wizard screen. The Prestige automatically tests the connection to the computer(s) connected to the LAN ports. To test the connection from the Prestige to the ISP, click **Start Diagnose**. Otherwise click **Return to Main Menu** to go back to the main screen.

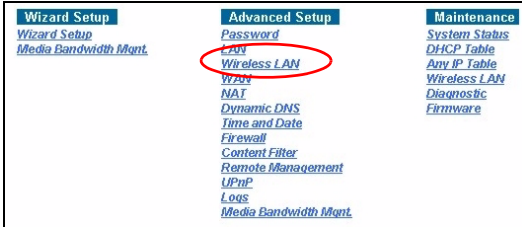
The screenshot shows the 'Wizard Setup - ISP Parameters for Internet Access' screen with test results. Under 'LAN connections', 'Test your Ethernet Connection' is marked as 'PASS'. Under 'WAN connections', 'Test ADSL synchronization', 'Test ADSL(ATM OAM) loopback test', 'Test PPP/PPPoE server connection', and 'Ping default gateway' are all marked as 'PASS'. There are buttons for 'Start Diagnose' and 'Return to Main Menu' at the bottom.

3 Wireless Configuration (P660HW series only)

WPA-PSK encryption is preferred to WEP because it has user authentication and improved data encryption. If you don't have WPA-capable wireless clients, configure WEP encryption.

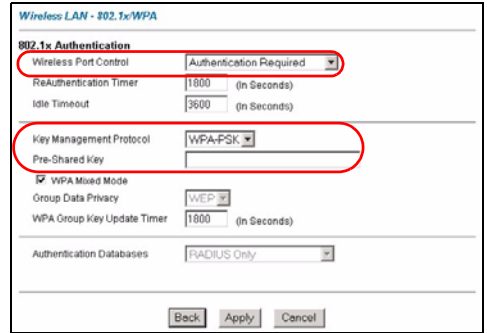
Note: Wireless clients and the Prestige must use the same SSID, channel ID, WEP or WPA-PSK key (if enabled).

1 Click the **Wireless LAN** link under **Advanced Setup**.

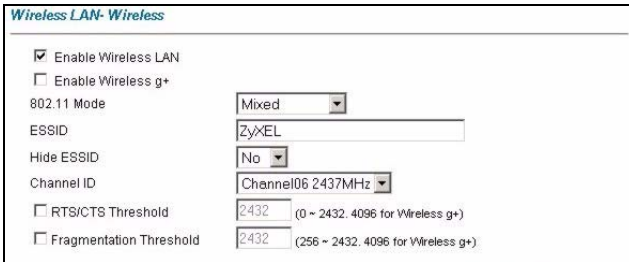


2 Click **802.1x/WPA**.

Select **Authentication Required**, then select **WPA-PSK** and then type a **Pre-shared Key**.



3 Click **Advanced Setup**, **Wireless LAN**, **Wireless**. In the **ESSID** field, enter up to 32 printable characters to uniquely identify the Prestige. If you didn't configure **WPA-PSK**, configure **WEP** in this screen (not visible if you've configured **WPA-PSK**).



3.1 OTIST

Configure this screen only if you have OTIST-aware wireless clients. **OTIST** (One-Touch Intelligent Security Technology) allows you to transfer your Prestige's SSID and WEP or WPA-PSK security settings to wireless clients that support **OTIST** and are within transmission range. You can also choose to have **OTIST** generate a WPA-PSK key for you if you didn't configure one manually.

Click **Advanced Setup**, **Wireless LAN** and then click **OTIST**. To change the **Setup** key enter up to eight printable characters. To have **OTIST** automatically generate a WPA-PSK key select the **Yes** check box. If you manually configured a WEP key or a WPA-PSK key and you also selected this check box, then the key you manually configured is used.

Note: The AP and wireless client(s) MUST use the same **Setup** key.

Wireless LAN - OTIST

OTIST

Key: 01234567

Yes! Please enhance the Wireless Security Level to WPA-PSK automatically if no any WLAN security has been set. This will generate a random PSK key later for your convenience.

Back Start Cancel

In each wireless client ZyXEL utility, click the **Adapter** tab. Select the **OTIST** check box, enter the same **Setup** Key as your Prestige's and click **Save**.

Note: You must click **Start** in the Prestige **OTIST** web configurator screen and in the wireless client(s) **Adapter** screen all within three minutes (at the time of writing). You can start OTIST in the wireless clients and Prestige in any order but they must all be within range and with OTIST enabled.

4 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).

Click **Advanced Setup** and then **NAT** to open the **NAT-Mode** screen. Select **SUA Only** if you

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.

	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

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

Select **Enable SIP ALG** to allow VoIP calls to pass through NAT.

5 Firewall

The firewall is already enabled by default on the Prestige.

Click **Advanced Setup** and then **Firewall** to open the firewall screen. The firewall protects your LAN from attacks from the Internet. No traffic can enter your LAN unless a request was generated on the LAN first.

Click **Default Policy** to see rule direction information. You can also disable the firewall here if you want.

Packet Direction	Default Action	Log
LAN to LAN / Router	<input type="radio"/> Block <input checked="" type="radio"/> Forward	<input type="checkbox"/>
LAN to WAN	<input type="radio"/> Block <input checked="" type="radio"/> Forward	<input checked="" type="checkbox"/>
WAN to LAN	<input checked="" type="radio"/> Block <input type="radio"/> Forward	<input checked="" type="checkbox"/>
WAN to WAN / Router	<input checked="" type="radio"/> Block <input type="radio"/> Forward	<input checked="" type="checkbox"/>

6 Troubleshooting

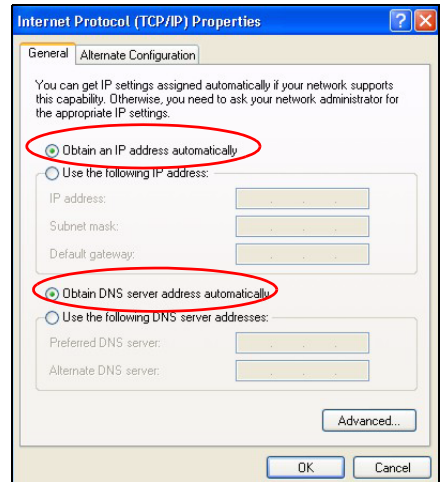
PROBLEM	CORRECTIVE ACTION
None of the LEDs turn on when you connect the Prestige's power.	<p>Make sure that you have the correct power adaptor connected to the Prestige, it is plugged into an appropriate power source and the Prestige is turned on.</p> <p>Check all cable connections. If the LEDs still do not turn on, you may have a hardware problem. In this case, you should contact your local vendor.</p>
Cannot access the Prestige from my computer.	<p>Check the cable connection from your computer to the Prestige.</p> <p>Make sure your computer's IP address is in the same subnet as the Prestige's IP address (see Section 6.1 on page 11).</p> <p>Ping the Prestige 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 Prestige's LAN IP address (192.168.1.1 is the default) and then press [ENTER]. The Prestige should reply; otherwise see Section 6.1 on page 11.</p> <p>If the Prestige'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 Prestige's password, use the RESET button. Press the button in for about 10 seconds (or until the PWR/SYS 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).</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>For wireless clients, check that both the Prestige 660HW and wireless client(s) are using the same SSID, channel and WEP or WPA-PSK keys (if configured).</p>

6.1 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 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 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.