

P-660HW-D

ADSL2+ 4-port Gateway

Quick Start Guide

Version 3.40
1/2007
Edition 2

The logo for ZyXEL, featuring the word "ZyXEL" in a bold, blue, sans-serif font. The "Zy" is lowercase and the "XEL" is uppercase. The letters are slightly italicized and have a modern, clean design.

Overview

The P-660HW-D is an ADSL router with a four-port built-in Ethernet switch.

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

This Quick Start Guide shows you how to:

- Connect the hardware.
- Set up your Internet and wireless connection. The device should connect to the Internet automatically if it is pre-configured. If you were given Internet connection information from your Internet Service Provider (ISP), you may have to set up the connection manually (See section 3).

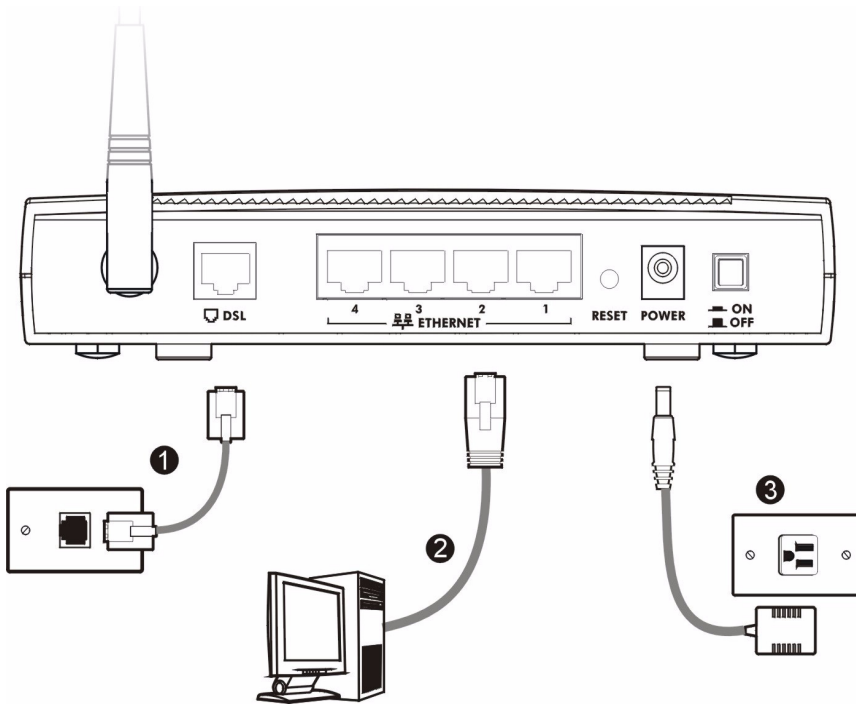
How to use the included CD

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

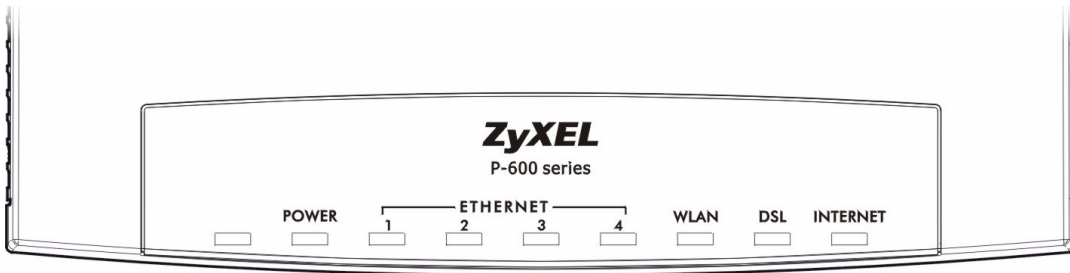
1 On the included CD, click **Multimedia Auto Provisioner > Installation Tutorial**.

2 At the end of the tutorial, click **Configuration Genie** to set up your P-660HW-D to connect to the Internet.

1 Hardware Connections



- 1 **DSL:** Use the gray telephone wire to connect your P-660HW-D's **DSL** port to a telephone jack (or to a splitter, if one is already installed).
- 2 **ETHERNET:** Use the yellow Ethernet cable to connect a computer to an **ETHERNET** port for initial configuration and/or Internet access.
- 3 **POWER:** Use the power adaptor provided with your P-660HW-D to connect an appropriate power source to the **POWER** socket. Make sure the power source is on.
- 4 Push in the **POWER** button.
- 5 Look at the lights on the front panel.



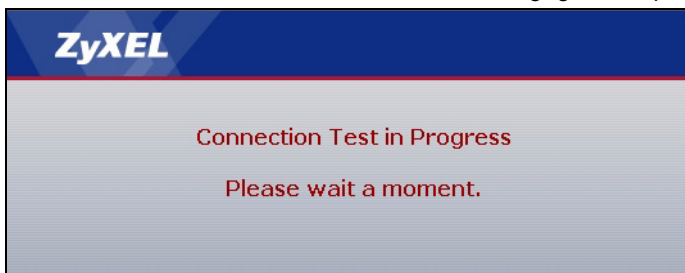
- The **POWER** light blinks while your P-660HW-D starts up and stays on once it is ready.
- The **DSL** light is on when the P-660HW-D has a DSL connection.
- The **INTERNET** light is on when you are able to access the Internet and blinks when the P-660HW-D is sending or receiving data.
- Each **ETHERNET** light stays on if the corresponding **ETHERNET** port is properly connected and blinks when there is traffic.

If any of these lights are not on, check your connections, and inspect your cables for damage. If the lights are still off, contact your local vendor.

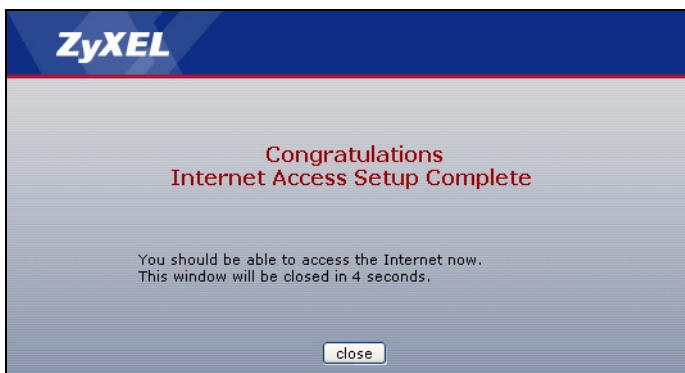
2 Internet Connection Setup: Automatic

Use this section to have your P-660HW-D automatically detect and set up your Internet connection.

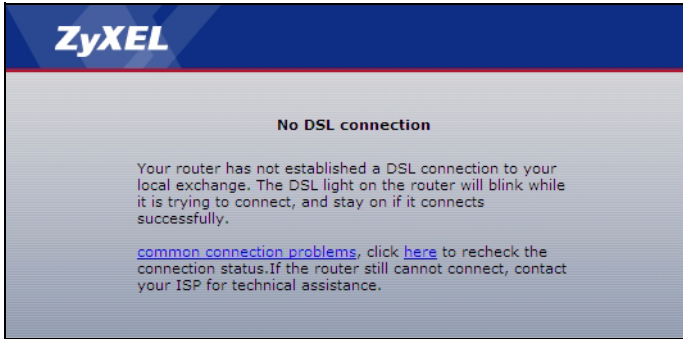
- 1 Open your web browser. Your P-660HW-D tries to detect your Internet connection.
- 2 Wait for the P-660HW-D to finish the connection test. This may take several minutes. If you do not see a connection test screen similar to the following, go to step 5.



- 3 If the connection test is successful, the following screen appears. Your Internet connection is ready for you to use.



- 4 If the connection test is not successful, you may see a screen similar to the following one. Follow the instructions in the screen. If you still cannot access the Internet, take the steps in the following section. You should have information provided by your Internet Service Provider.

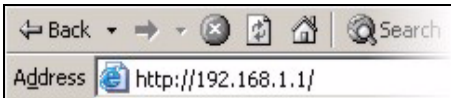


- 5 If you do not see the connection test screen, or if the connection test is not successful, check your connections and restart the P-660HW-D. If you still cannot access the Internet, follow the steps in the following section. You should have information provided by your Internet Service Provider.

3 Internet and Wireless Setup: Wizard

Use this section to set up your Internet connection if automatic Internet connection does not work (see section 2). You should have information from your Internet Service Provider (ISP).

- 1 Open your browser and enter the P-660HW-D's IP address 192.168.1.1 (default) as the URL. If your browser does not display a login screen, see **Troubleshooting** for details.



- 2 Enter the admin password **1234** (default). Click **Login**.



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

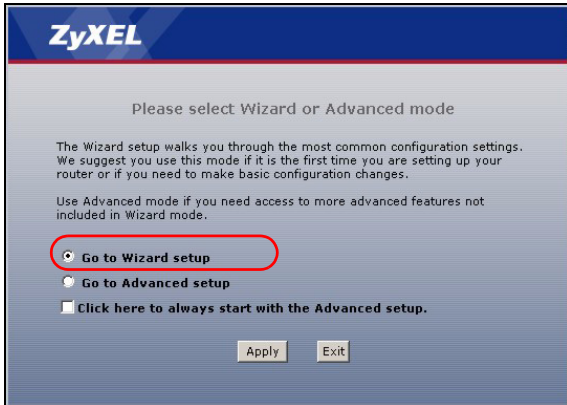
Note: You have to use a new password other than the default password **1234**, or you cannot apply it successfully.



The screenshot shows the ZyXEL password change interface. At the top is the ZyXEL logo. Below it, the text reads: "Use this screen to change the password." followed by a paragraph explaining the need to change the default password for security. Below this is a paragraph instructing the user to enter a new password in two fields and click "Apply" or "Ignore". The form contains two input fields: "New Password:" and "Retype to Confirm:". At the bottom are two buttons: "Apply" and "Ignore".

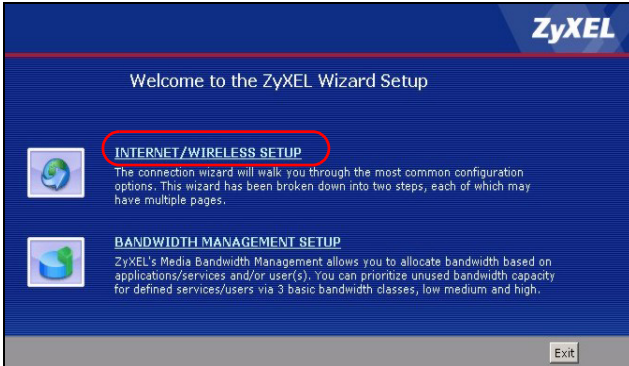
4 The system asks you to enter your new password to log in again.

5 Select **Go to Wizard setup**. Then, click **Apply**.



The screenshot shows the ZyXEL mode selection screen. At the top is the ZyXEL logo. Below it, the text reads: "Please select Wizard or Advanced mode". This is followed by two paragraphs explaining the Wizard and Advanced modes. Below the text are three radio button options: "Go to Wizard setup" (which is selected and circled in red), "Go to Advanced setup", and "Click here to always start with the Advanced setup." At the bottom are two buttons: "Apply" and "Exit".

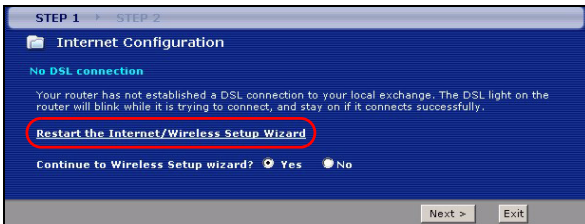
6 Click **INTERNET/WIRELESS SETUP**. Wait while your P-660HW-D tries to detect your DSL connection.



7 Click **Next**. Go to step 8 to configure wireless settings.



If the connection test is not successful, you may see either a screen similar to one of the following. Either click **Restart the Internet/Wireless Setup Wizard** if available to have the ZyXEL Device detect your connection again or click **Next** to set up your Internet connection manually.



Follow up the instructions in the wizard. Enter your Internet connection information exactly as provided by your ISP. If you do not see the following screen, go to section 4.

STEP 1 → **STEP 2**

Internet Configuration

ISP Parameters for Internet Access

Please verify the following settings with your Internet Service Provider (ISP). Your ISP may have given you a welcome letter or network setup letter including this information.

Mode
 Select 'Routing' (default) if your ISP allows multiple computers to share an Internet account. Otherwise, select 'Bridge' mode.

Encapsulation
 Select the encapsulation method used by your ISP. Your ISP may list 'ENET ENCAP' as 'Static IP' or 'Dynamic IP'.

Multiplexing
 Select the multiplexing type used by your ISP.

Virtual Circuit ID

VPI
VCI
 Select the VPI (Virtual Path Identifier) and VCI (Virtual Channel Identifier) used by your ISP. The valid range for the VPI is 0 to 255 and VCI is 32 to 65535.

< Back Next > Exit

8 Select **Active** and click **Next** to continue. Make sure **Enable OTIST** is not selected (recommended).

STEP 1 → **STEP 2**

Wireless LAN

Wireless

Active
 Uncheck this option if you like to deactivate your wireless network.

Enable OTIST
 Check here to set up a ZyAIR client adapter that supports OTIST.

Note:
 OTIST will automatically configure the SSID and security settings on both your router and your wireless clients. In order for this to work, you must be using Zyxel client adapters that support OTIST. The OTIST configuration process may take up to 3 minutes.

< Back Next > Exit

Note: ZyXEL's One-Touch Intelligent Security Technology (OTIST) feature allows you to automatically configure the SSID and WPA-PSK on all OTIST-equipped wireless clients within range of the P-660HW-D. For more information of OTIST, see [OTIST on page 12](#).

9 Configure your wireless settings in the screen. Click **Next**.

STEP 1 > STEP 2

Wireless LAN

Wireless

Network name (SSID)

Give your network a name. You will search for this name from your wireless clients

Channel Selection

Your router can use one of several channels. You should use the default channel unless other wireless networks nearby use the same channel.

Security

Use this option if you would prefer to create your own key, WPA is stronger than WEP but not all devices are compatible with WPA.

<Back Next > Exit

10 Follow the directions in the screen. The screen varies depending on the security you choose. Click **Next** to continue.

STEP 1 > STEP 2

Wireless LAN

WPA Pre-Shared Key Setup

Pre-Shared Key

"WPA-PSK" uses a "Pre-Shared Key" to authenticate wireless users and make sure they are allowed to access your network. Think of this pre-shared key as a shared password that you must know to get on the network. The pre-shared key should be at least 8 characters in length and made up of both letters and numbers. This pre-shared key is recommended to be different from the password you use to access this router or use to log-in to your ISP.

<Back Next > Exit

11 Click **Apply** to save your wireless LAN settings.

STEP 1 > STEP 2

Wireless LAN

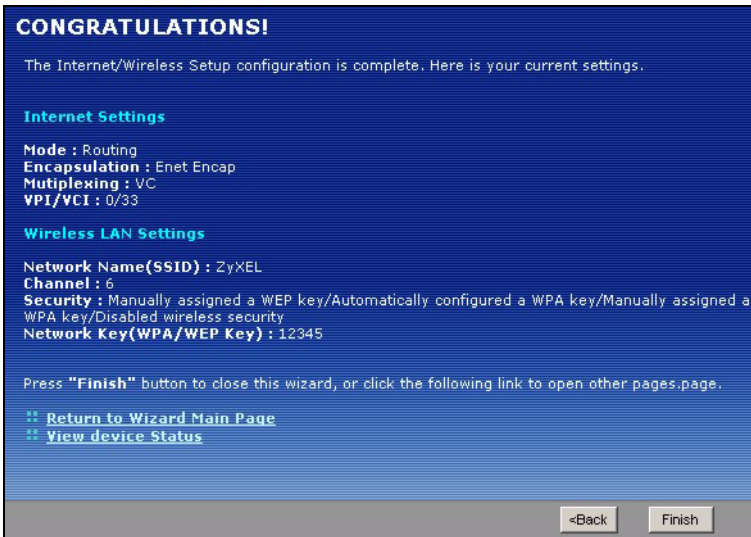
Please Click the "**Apply**" Button to Save the Wireless LAN settings.

Note:
If you are currently using a Wireless PC card to access this router AND you made changes to the SSID, then you will need to make the same changes to your Wireless PC card AFTER you click the Apply Button.

Once the changes have been made to the Wireless PC card, you will be able to connect back to the router and continue the configuration process.

<Back Apply Exit

12 Use the read-only summary table to check whether what you have configured is correct. Click **Finish** to complete and save the wizard setup.

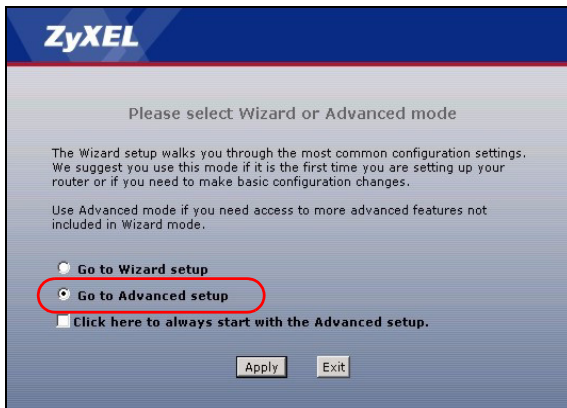


13 The Internet connection is ready for you to use.

4 Internet Connection Setup: Manual

Use this section to set up your Internet connection manually if you do not see the **ISP Parameters for Internet Access** screen when you run the wizard (see section 3).

- 1 Follow steps 1 to 3 in section 3 in order to log in to the web configurator.
- 2 Select **Go to Advanced setup**. Then, click **Apply**.



3 The **Status** screen appears. Click **Network > WAN** in the navigation panel on the left of the screen.



4 The Internet Connection screen appears. Enter the information exactly as provided by your ISP. Click **Apply**.

Note: The fields available in this screen depend on the **Mode** you select.

Internet Connection	
More Connections WAN Backup Setup	
General	
Name	MyISP
Mode	Routing
Encapsulation	PPPoE
User Name	
Password	
Service Name	
Multiplexing	LLC
Virtual Circuit ID	
VPI	8
VCI	35
IP Address	
<input checked="" type="radio"/> Obtain an IP Address Automatically	
<input type="radio"/> Static IP Address	
IP Address	0.0.0.0
Connection	
<input type="radio"/> Nailed-Up Connection	
<input checked="" type="radio"/> Connect on Demand	
Max Idle Timeout	0 sec
<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Advanced Setup"/>	

5 If you still cannot access the Internet, see **Troubleshooting** and/or contact your Internet Service Provider (ISP) for assistance.

OTIST

ZyXEL's One-Touch Intelligent Security Technology (OTIST) feature allows you to automatically configure the SSID and WPA-PSK on all OTIST-equipped wireless clients within range of the P-660HW-D.

Note: If you enable OTIST but select **Disable wireless security** using the wireless wizard, the P-660HW-D will create a WPA-PSK automatically.

If you enable OTIST and select **Manually assign a WEP key** using the wireless wizard, the P-660HW-D will replace the WEP key with a WPA-PSK.

Enable OTIST only if your wireless clients support WPA and OTIST.

You must enable OTIST on the P-660HW-D and all wireless clients within three minutes in any order.

To enable OTIST on the P-660HW-D, you can either use the wizard (see section 3) or hold in the **RESET** button (see section 1) for one to five seconds. Do not hold the **RESET** button in for too long, as this will reset the P-660HW-D to the factory defaults.

To enable OTIST on wireless clients, click **Start** in the **Adapter** screen. The **Setup Key** is 01234567 by default. If you have previously saved a setup key on the P-660HW-D, use it instead of the default.

For more information, see **Wireless LAN** in the User's Guide.

Troubleshooting

1 If you cannot access the web configurator,

- Your computer may be set to use a static IP address in a different subnet from the ZyXEL device. See the appendix in the User's Guide for information on setting up your IP address.
- If you are using Internet Explorer in Windows XP or Windows Server 2003, 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.

2 If you cannot access the Internet when your computer is connected to the **ETHERNET** 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 P-660HW-D is correctly connected. (See section 1.) If the lights are still different, turn off the device, wait a few seconds, and turn it on again.
- B)** If your ISP gave you the information, 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. If your ISP did not give you Internet connection information, follow the steps in section 2.
- 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.


If you cannot access the Internet after you take the steps above, either try the following or contact your ISP:

E) Turn your P-660HW-D off and on. Open your Internet browser if it is not already open.


Let the P-660HW-D complete the DSL connection test (this may take several minutes). See section 2 for details.

If the test is successful, check whether you can access the Internet.

F) If the test is unsuccessful or if you cannot access the Internet, log in to the P-660HW-D's web configurator (see section 3).

- Click **Network > WAN > Internet Connection**. Ensure that the settings in this screen are the same as those your ISP gave you. If your ISP gave you a static IP address to use, select **Static IP Address** in the **IP Address** section and enter it in the **IP Address** field. If not, select **Obtain an IP Address Automatically**. Click **Apply**.
- Click the wizard icon (). Run the **Internet/Wireless Setup** wizard again. Check whether you can access the Internet.

If you still cannot access the Internet, take the following steps:

- If you are using **Bridge** mode (check **Mode** in the **Network > WAN > Internet Connection** screen) click **NAT > General** and ensure **Active Network Address Translation (NAT)** is not selected. Click **LAN > DHCP Setup** and ensure that **DHCP** is set to **None**. Your ISP gives your computer an IP address directly. If you want to access the P-660HW-D again, you need to use a static IP address in the same subnet as your P-660HW-D (the P-660HW-D's default IP address is 192.168.1.1).
- Click the wizard icon (). Run the **Internet/Wireless Setup** wizard again. Check whether you can access the Internet.

If you still cannot access the Internet, contact your Internet Service Provider.

3If you cannot access the Internet using the wireless network, follow these steps.

G) On a computer in the wireless network, open your browser, and go to <http://192.168.1.1>. If you see the login screen in section 3, follow suggestions **A - F** above. If you do not, go to the next step.

H) On a computer connected to the P-660HW-D, make sure your P-660HW-D and the computers on your wireless network are using the same wireless and wireless security settings. See the chapter on Wireless LAN in the User's Guide for more information.

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.