

P-2612HW-F1

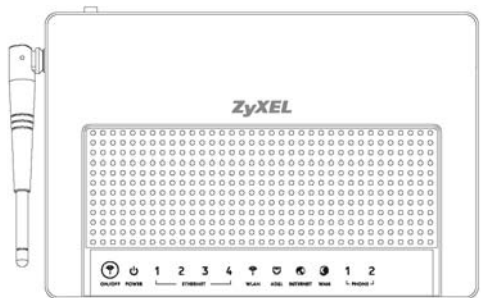
Quick Start Guide

802.11g Wireless ADSL VoIP IAD

Firmware v3.70
Edition 1, 12/2008

DEFAULT LOGIN DETAILS

IP Address:	http://192.168.1.1
Username:	admin
Password:	1234

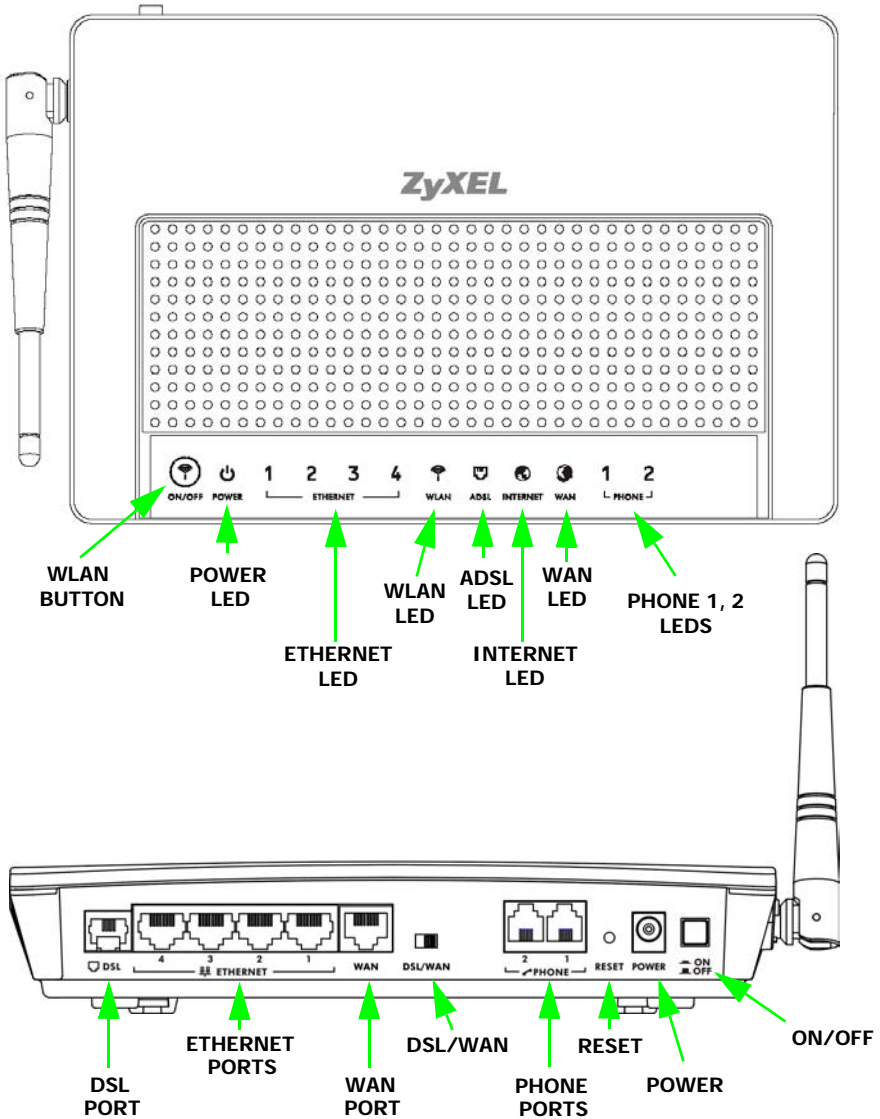


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ZyXEL

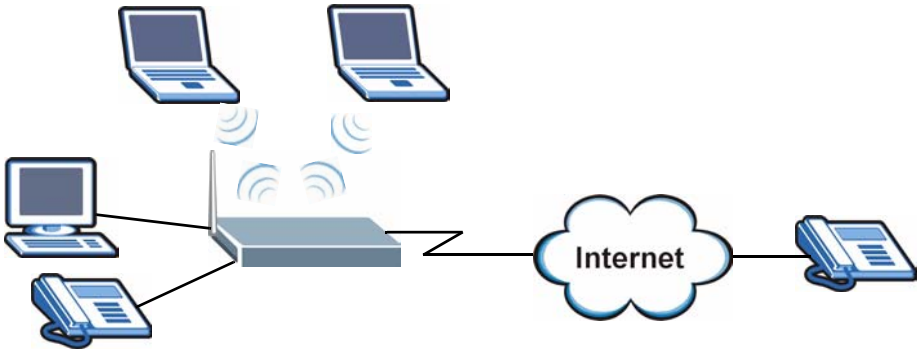
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Device Panels



Overview

The P-2612HW-F1 is a router which combines high-speed ADSL Internet access, a built-in switch, a firewall and high-speed wireless networking capability. It also has a phone port for making calls over the Internet (Voice over IP or VoIP).



Requirements

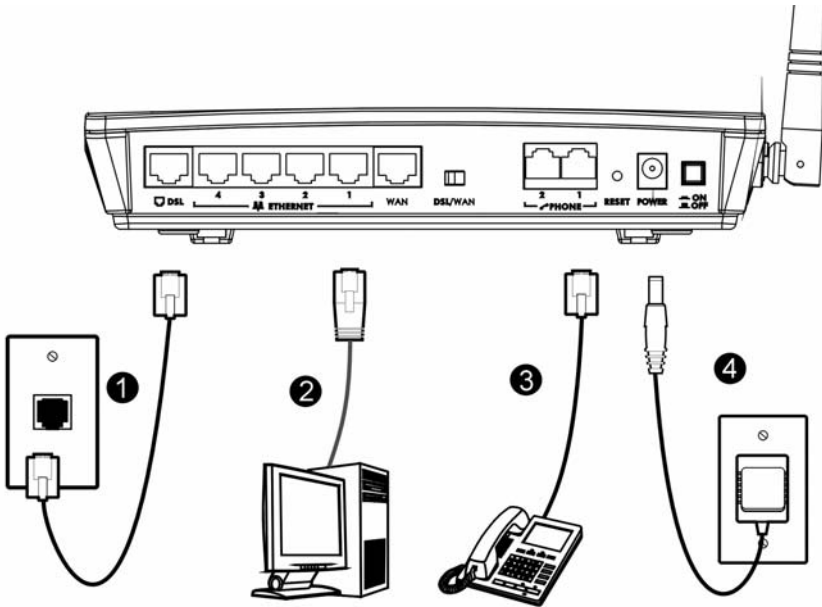
Make sure you have the following things before you start.

- Internet access - account information provided by your ISP, such as user name, password, and so on.
- Internet Explorer 6.0 or later or Netscape Navigator 7.0 or later, with JavaScript enabled.

See the User's Guide for all configuration details including file sharing and setting up a shared printer.

To read the User's Guide insert the CD that came in the box into your CD-ROM drive. A screen should pop up. Navigate to the User's Guide from this screen. If a screen does not pop up, open Windows Explorer (click My Computer), click on the CD-ROM drive (usually drive D) and navigate to it from there.

Hardware Connections



Remove the plastic cover from the P-2612HW-F1 before you use it.

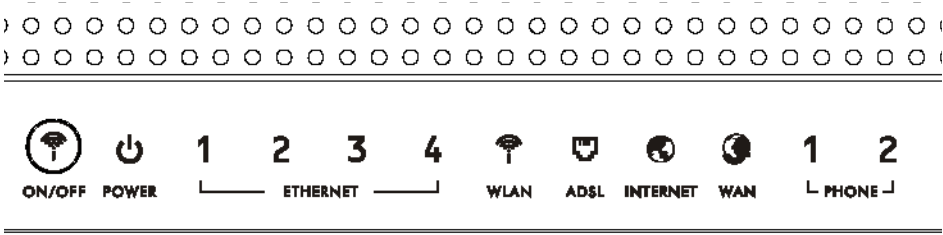
- 1. DSL:** Use a telephone wire to connect this port to a telephone jack (or the **DSL** or **MODEM** jack on a splitter, if you have one).

WAN: If you have a DSL router or modem already in your network or you want to use a cable modem, push the **DSL/WAN** switch to the **WAN** side and use an Ethernet cable to connect this port to an Ethernet jack with Internet access.

- 2. ETHERNET:** Use an Ethernet cable to connect a computer to one of these ports for initial configuration and/or Internet access.

3. **PHONE:** Use a telephone cable (and any telephone adaptor provided with your P-2612HW-F1) to connect a telephone to the **PHONE 1** or **PHONE 2** port.
4. Use the power adaptor provided with your P-2612HW-F1 to connect an appropriate power source to this socket.
5. Push the power button to the on position.

Look at the LEDs (lights) on the top panel of the P-2612HW-F1.



- The **POWER** light blinks during start-up and is green once the P-2612HW-F1 is ready.
- Each **ETHERNET** light turns on if the corresponding **ETHERNET** port is properly connected. The lights blink when the P-2612HW-F1 is sending or receiving data through the corresponding **ETHERNET** port.

- The **ADSL** light stays on if a physical DSL connection exists and blinks when transmitting data.

The **WAN** light stays on if this port is properly connected and blinks when transmitting data.

The **INTERNET** light is green when Internet access is available.

- The **PHONE** lights stay on when your SIP account is registered and they blink if the receiver is off the hook.

- The **WLAN** light stays green when the wireless LAN is ready. It blinks when the P-2612HW-F1 is sending/receiving data through the wireless LAN.

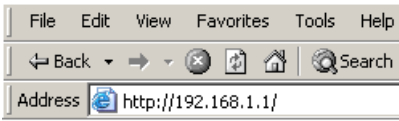
If the **PHONE** light is on, skip to [Using the Phones](#) on page 16 to see how to make calls through the Internet.



If none of the LEDs (lights) are on, check your connections. Make sure that you have the power adaptor connected to the P-2612HW-F1 and plugged into an appropriate power source. Make sure the power source is turned on. Turn the P-2612HW-F1 off, wait for a few seconds and turn it back on. If the LEDs are still off, contact your local vendor.

Wizard Configuration

- If the **INTERNET** light is green, skip to [Set Up a Wireless Network](#) on page 11.
 - If the **DSL/WAN** switch is set to **DSL** and the **DSL** light is on but the **INTERNET** light is off; use this section to configure your Internet access settings. If the
 - If the **DSL/WAN** switch set to **WAN** and the **WAN** light is on but the **INTERNET** light is off; see your User's Guide for how to use the **Network > WAN** screen to set up the Ethernet WAN connection.
1. Open your browser and enter **http://192.168.1.1** (the P-2612HW-F1's default IP address) as the address.



2. For administrator login, enter username **admin** and password **1234** (default). Only administrators can configure the SIP account settings. For user login, enter **user** as both the username and password. Click **Login**.





If the login screen does not open, make sure you allow web browser pop-up windows, JavaScripts and Java permissions. Your computer should be also set to get an IP address automatically from a DHCP server. See the appendices in your User's Guide for more information.

- In the **Status** screen, click the **Wizard** icon () in the upper right corner.

The screenshot shows the ZyXEL Status page. The top navigation bar includes 'Status', 'Refresh Interval: None', and an 'Apply' button. The main content area is divided into two sections: 'Device Information' and 'System Status'.

Device Information		System Status	
Host Name:	P2612HW	System Uptime:	3:48:58
Model Number:	P-2612HW-F1	Current Date/Time:	01/01/2000 03:50:34
MAC Address:	00:02:cf:e8:56:3a	System Mode:	Routing / Bridging
ZYNOS Firmware Version:	V3.70(BLD_0) b2 1 11/25/2008	CPU Usage:	15.96%
WAN Information		Memory Usage:	76%
- IP Address:	172.23.37.55		

Internet/Wireless Setup

Enter the Internet access information exactly as given to you by your ISP in each wizard screen and then click **Next** to continue or click **Back** to return to the previous screen. Current screen information is lost if you click **Back**.

- Click **INTERNET/WIRELESS SETUP**.

The screenshot shows the 'Welcome to the ZyXEL Wizard Setup' screen. It features two main options: 'INTERNET/WIRELESS SETUP' and 'VOICE OVER INTERNET SETUP'. The 'INTERNET/WIRELESS SETUP' option is highlighted with a yellow circle. Below the options, there is a paragraph of text: 'Welcome to the ZyXEL Wizard Setup. This wizard will guide you through the most common configuration options. This wizard has been broken down into two steps, each of which may have multiple pages.' An 'Exit' button is located at the bottom right.

2. Wait while the P-2612HW-F1 tries to detect your Internet connection. If the P-2612HW-F1 cannot detect it, follow the directions in the screen. Enter the information provided by your ISP. Keep the default settings if your ISP did not provide some information.
3. See the back panel for the P-2612HW-F1's unique wireless SSID (network name) and WPA-PSK encryption key. Unless you want to use other wireless settings, you can close the wizard after you configure the Internet connection.

To configure your wireless clients to connect to the P-2612HW-F1, see [Set Up a Wireless Network](#) on page 11.

4. When your Internet connection is setup correctly, the **DSL** and **INTERNET** lights should be green. When you are finished click **Return to Wizard Main Page**.



If you cannot access the Internet and the **INTERNET** light is red, make sure you enter the correct information in the **INTERNET/WIRELESS SETUP** wizard screens. If you are using a new Internet account, contact your ISP to make sure it is active. If you are trying to access the Internet wirelessly, make sure the wireless and security settings in your wireless client are the same as the settings in the P-2612HW-F1.

Set Up a Wireless Network

To set up a wireless network you need at least one wireless network card/adaptor.

- If you have a desktop computer, use either a wireless USB adapter or a wireless PCI adapter.
- If you have a laptop, use either a wireless USB adapter or a wireless CardBus card. These are built into many laptops.

Setting Up a Wireless Network with WPS

If your wireless devices display the WPS logo, you can use Wi-Fi Protected Setup (WPS) to add wireless devices to your wireless network. If your wireless devices do not display the WPS logo, go to [Set Up a Wireless Network Manually](#) on page 13 to manually set up a wireless network.



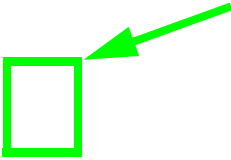
The P-2612HW-F1 supports two WPS methods for creating a secure connection.

- **Push Button Configuration** - create a secure wireless network simply by pressing the P-2612HW-F1's physical WPS button. See [Push Button Configuration](#) on page 12.
- **PIN Configuration** - create a secure wireless network by entering the P-2612HW-F1's PIN (Personal Identification Number) into the configuration screen of another wireless device. See [PIN Configuration](#) on page 12.

You must use the same method on the P-2612HW-F1 and the wireless client.

Push Button Configuration

1. Place a WPS-enabled device that supports the WPS Push Button method within range of the P-2612HW-F1.
2. Press the **WLAN** button on the P-2612HW-F1's top panel for five seconds.



3. Use the other WPS-enabled device's WPS button. It can be either a button in the utility or a physical button. See the device's documentation if you cannot locate the WPS button. It doesn't matter which button is pressed first. You must press the second button within two minutes of pressing the first one.
4. The P-2612HW-F1 and the wireless device establish a secure connection. This can take up to two minutes.
5. Congratulations! Your computer is now ready to connect to the Internet wirelessly through your P-2612HW-F1.

PIN Configuration

1. Place a WPS-enabled device that supports the WPS PIN configuration method within range of the P-2612HW-F1.
2. Log into the P-2612HW-F1's web configurator at **<http://192.168.1.1>** (see [Wizard Configuration](#) on page 8 for more details on this).

- In the **Status** screen click **Network** in the left panel then click **Wireless LAN**. In the **Wireless LAN** screen click the **WPS Station** tab.
- Enter the PIN of the other WPS-enabled device into the **Input Station's PIN number** text box and click **Start**. You can locate this PIN number in the other device's utility or on the device itself. See the other device's documentation if you cannot locate the PIN.

The screenshot shows a web interface with several tabs: AP, More AP, MAC Filter, WPS, WPS Station (selected), and WDS. Below the tabs is a section titled 'Add Station by WPS'. It contains the instruction: 'Click the below **Push Button** to add WPS stations to wireless network.' There is a 'Push Button' button. Below that, it says 'Or input station's PIN number' followed by a text input field and a 'Start' button. A red rectangle highlights the text input field and the 'Start' button.

- Click **Start** or **Apply** in the other device's utility screen within two minutes of clicking **Start** in the P-2612HW-F1 web configurator screen.
- The P-2612HW-F1 and the other WPS-enabled device establish a secure connection. This can take up to two minutes.
- Congratulations! Your computer is now ready to connect to the Internet wirelessly through your P-2612HW-F1.

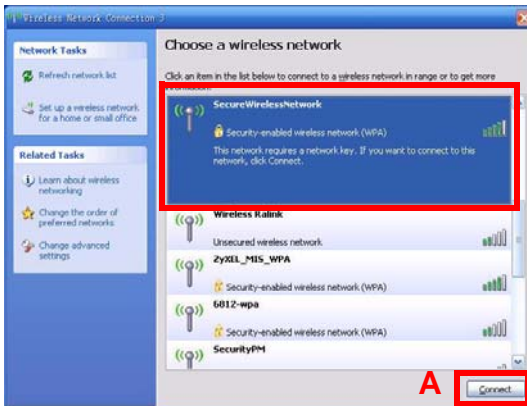
Set Up a Wireless Network Manually

Configure wireless devices to use the same wireless settings as the P-2612HW-F1. If you didn't configure the P-2612HW-F1's wireless settings, use the wireless SSID (network name) and WPA-PSK encryption key on the P-2612HW-F1's rear panel. The connection procedure is shown here using Windows XP as an example.

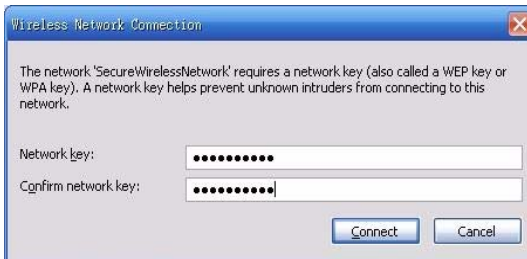
1. Right-click the wireless adapter icon which appears in the bottom right of your computer monitor. Click **View Available Wireless Networks**.



2. Select the P-2612HW-F1's **SSID** name and click **Connect (A)**. The SSID "SecureWirelessNetwork" is given here as an example.



3. You are prompted to enter a password. Enter it and click **Connect**.



4. You may have to wait several minutes while your computer connects to the wireless network.

5. You should now be securely connected wirelessly to the P-2612HW-F1.



Congratulations! Your computer is now ready to connect to the Internet wirelessly through your P-2612HW-F1.



If you cannot connect wirelessly to the P-2612HW-F1, check you have selected the correct **SSID** and entered the correct security key. If that does not work, ensure your network adapter is enabled by clicking on the wireless adapter icon and clicking **Enable**. See the User's Guide for more suggestions.

Using the Phones

Follow these directions to make calls over the Internet.

- 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.
- 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.
- To call regular telephone numbers, use your VoIP service provider’s dialing plan.

European Flash Key Commands

Command	Sub-command	Description
Flash		Put a current call on hold to place a second call. Switch back to the call (if there is no second call).
Flash	0	Drop the call presently on hold or reject an incoming call which is waiting for answer.
Flash	1	Disconnect the current phone connection and answer the incoming call or resume with caller presently on hold.
Flash	2	1. Switch back and forth between two calls. 2. Put a current call on hold to answer an incoming call. 3. Separate the current three-way conference call into two individual calls (one is on-line, the other is on hold).
Flash	3	Create three-way conference connection.
Flash	*98#	Transfer the call to another phone.

USA Flash Key Commands

Command	Sub-command	Description
Flash		Put a current call on hold to place a second call. After the second call is successful, press the flash key again to have a three-way conference call. Put a current call on hold to answer an incoming call.
Flash	*98#	Transfer the call to another phone.

Phone Functions Summary

Keys	Function	Description
*99**	HTTP pincode	Use this if your service provider gave you a personal identification number to enter in order to start using the service.
*99#	Enable firmware update	Use these to upload or not upload new firmware to the P-2612HW-F1, if requested by your service provider.
#99#	Disable firmware update	
*98#	Call transfer	Transfer a call to another phone.
*97#	Call park	Use these to place a call on hold on one phone and then continue it on another (if supported by your service provider).
#97#	Call pickup	
*66#	Call return	Place a call to the last person who called you.
*95#	Enable Do Not Disturb	Use these to set your phone not to ring when someone calls you, or to turn this function off.
#95#	Disable Do Not Disturb	
*41#	Enable call waiting	Use these to allow you to put a call on hold while answering another, or to turn this function off.
#41#	Disable call waiting	
*21#	Enable call forward	Use these to allow you to use the call forwarding tables you set in the P-2612HW-F1, or to turn this function off.
#21#	Disable call forward	
22	Uncondition forward	Forward all incoming calls. S

Keys	Function	Description
23	No answer forward	Forward incoming calls if you do not answer.
24	Busy forward	Forward calls if you are already making a call.
*70	One shot Call Waiting Disable	Activate or deactivate call waiting on the next call only.
*85	One shot Call Waiting Enable	

To call into the phone that is attached to the P-2612HW-F1, use your VoIP service provider's dialing plan.

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.

