

# *ZyWALL 10*

*Internet Security Gateway*

## *Quick Start Guide*

Version 3.52

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# Introducing the ZyWALL

The ZyWALL 10 is the ideal secure gateway for all data passing between the Internet and the LAN. By integrating NAT, firewall and VPN capability, ZyXEL's ZyWALL 10 is a complete security solution that protects your Intranet and efficiently manages data traffic on your network. The embedded web configurator is easy to operate and totally independent of the operating system platform you use.

You should have an Internet account already set up and have been given most of the following information.

## Internet Account Information

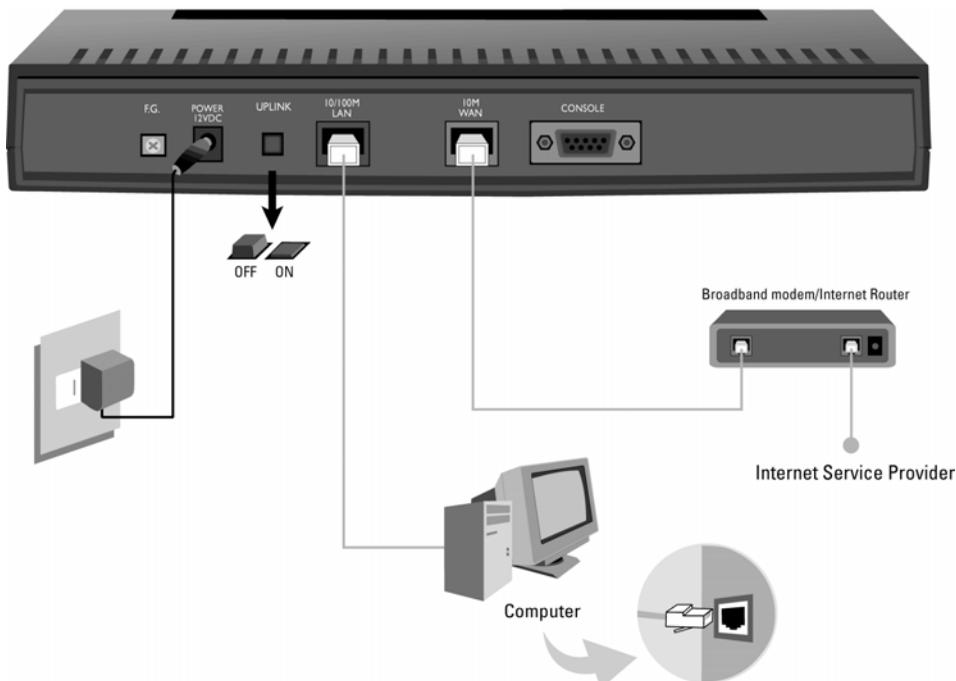
Your device's WAN IP Address (if given): _____	
DNS Server IP Address (if given): Primary _____, Secondary _____	
Encapsulation:	
<input type="radio"/> <b>Ethernet</b>	Service Type: _____ Login Server IP Address: _____ User Name: _____ Password: _____
<input type="radio"/> <b>PPTP</b>	User Name: _____ Password: _____ Your WAN IP Address: _____ PPTP Server IP Address: _____ Connection ID (if required): _____
<input type="radio"/> <b>PPPoE</b>	(PPPoE) Service Name: _____ User Name: _____ Password: _____

## Quick Start Overview

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# 1 Hardware Installation

## Rear Panel

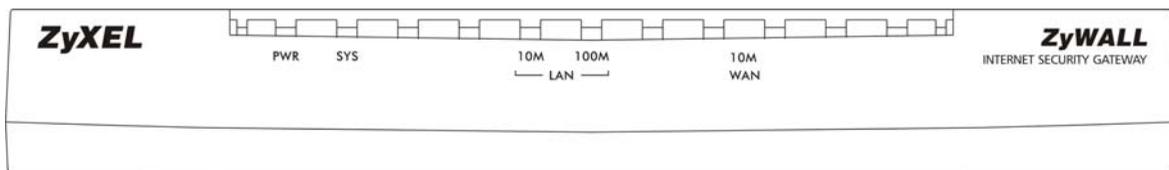


LABEL	DESCRIPTION
1. 10/100M LAN	Connect a computer to this port with an Ethernet cable. This port is auto-negotiating (can connect at 10 or 100Mbps). Push the <b>UPLINK</b> button in with a straight-through Ethernet cable or have the <b>UPLINK</b> button out with a crossover Ethernet cable.
2. 10 WAN	Connect your cable/DSL modem to this port with the Ethernet cable that came with your modem.
3. POWER 12VDC	Connect the included power adaptor (use only this adaptor) to this power socket.
After you've made the connections, connect the power cable to a power supply and look at the front panel LEDs.	
CONSOLE	<p>Only connect this port if you want to configure the ZyWALL using the SMT via console port; see your <i>User's Guide</i> for details.</p> <p>Connect the male end of the console cable to the console port of the ZyWALL and the other end to a serial port (COM1, COM2 or other COM port) on your computer. Your computer should have a terminal emulation communications program (such as HyperTerminal) set to VT100 terminal emulation, no parity, 8 data bits, 1 stop bit, no flow control and 9600 bps port speed.</p>

LABEL	DESCRIPTION
RESET	You only need to use this button if you've forgotten the ZyWALL's password. It returns the ZyWALL to the factory defaults (password is 1234, LAN IP address 192.168.1.1, terminal emulation settings as described above etc.; see your <i>User's Guide</i> for details).

## The Front Panel LEDs

The **PWR** LED turns on when you connect the power. The **SYS** LED blinks while performing system testing and then stays on if the testing is successful. The **LAN** and **WAN** LEDs turn on if they are properly connected. Refer to the following table for detailed LED descriptions.



LED	COLOR	STATUS	MEANING
PWR	Green	On	The ZyWALL is turned on.
		Off	The ZyWALL is turned off.
SYS	Green	Off	The ZyWALL is not ready or failed.
		On	The ZyWALL is ready and running.
		Flashing	The ZyWALL is rebooting.
LAN 10M	Green	Off	The 10M LAN is not connected.
		On	The ZyWALL is connected to a 10M LAN.
		Flashing	The 10M LAN is sending or receiving packets.
LAN 100M	Orange	Off	The 100M LAN is not connected.
		On	The ZyWALL is connected to a 100Mbps LAN.
		Flashing	The 100M LAN is sending or receiving packets.
WAN 10M	Green	Off	The 10M WAN link is not ready, or has failed.
		On	The 10M WAN link is OK.
		Flashing	The 10M WAN link is sending or receiving packets.

## 2 Setting Up Your Computer's IP Address

**Skip this section if your computer is already set up to accept a dynamic IP address. This is the default for most new computers.**

The ZyWALL is already set up to assign your computer an IP address. Use this section to set up your computer to receive an IP address or assign it a static IP address in the 192.168.1.2 to 192.168.1.254 range with a subnet mask of 255.255.255.0. This is necessary to ensure that your computer can communicate with your ZyWALL.

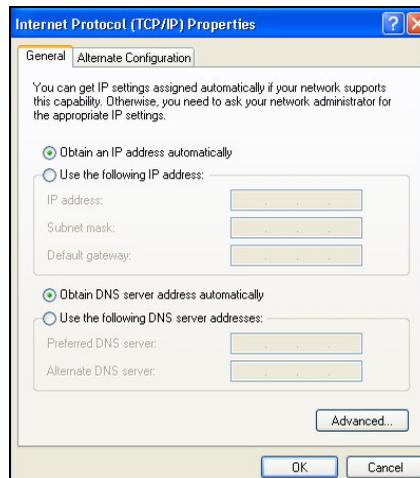
Your computer must have an Ethernet card and TCP/IP installed. TCP/IP should already be installed on computers using Windows NT/2000/XP, Macintosh OS 7 and later operating systems.

### Windows 2000/NT/XP

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).

- To have your computer assigned a dynamic IP address, click **Obtain an IP address automatically**.

-To configure a static IP address, click **Use the following IP Address** and fill in the **IP address** (choose one from 192.168.1.2 to 192.168.1.254), **Subnet mask** (255.255.255.0), and **Default gateway** (192.168.1.1) fields.



6. Click **Advanced**. Remove any previously installed gateways in the **IP Settings** tab and click **OK** to go back to the **Internet Protocol TCP/IP Properties** screen.

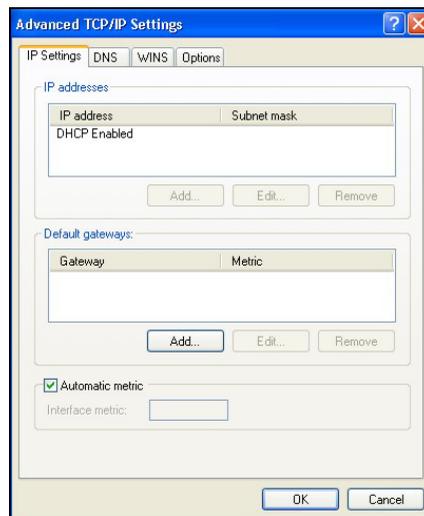
7. Click **Obtain DNS server address automatically** if you do not know your DNS server IP address(es).

If you know your DNS server IP address(es), click **Use the following DNS server addresses**, and type them in the **Preferred DNS server** and **Alternate DNS server** fields.

If you have more than two DNS servers, click **Advanced**, the **DNS** tab and then configure them using **Add**.

8. Click **OK** to close the **Internet Protocol (TCP/IP) Properties** window.

9. Click **OK** to close the **Local Area Connection Properties** window.



## Checking Your Computer's IP Address

1. In the computer, click **Start, (All) Programs, Accessories** and then **Command Prompt**.
2. In the **Command Prompt** window, type "ipconfig" and then press **ENTER**. Your computer's IP address must be in the correct range (192.168.1.2 to 192.168.1.254) with subnet mask 255.255.255.0 in order to communicate with the ZyWALL.

Refer to your *User's Guide* for detailed IP address configuration for other Windows and Macintosh computer operating systems.

# 3 Configuring Your ZyWALL

**Choose one of these methods to access and configure the ZyWALL. This *Quick Start Guide* shows you how to use the web configurator wizard only. See your *User's Guide* for background information on all ZyWALL features and SMT configuration. Click the web configurator online help for screen-specific web help.**

- Web Configurator
- SMT (System Management Terminal). Access the SMT via:
  - o Console port using terminal emulation software
  - o LAN or WAN using Telnet

## Accessing Your ZyWALL Via Web Configurator

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



**Step 2.** The default password (“1234”) is already in the password field (in non-readable format). Click **Login** to proceed to a screen asking you to change your password. Click **Reset** to revert to the default password in the password field.

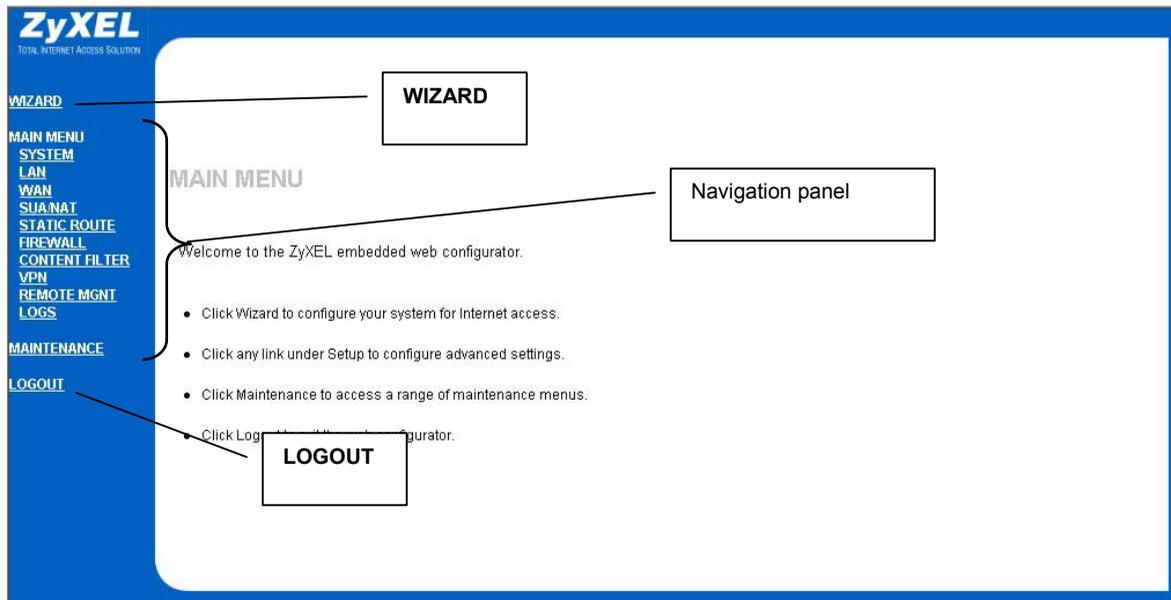


**Step 3.** It is highly recommended you change the default password! Enter a new password, retype it to confirm and click **Apply**; alternatively click **Ignore** to proceed to the main menu if you do not want to change the password now.



**Step 4.** You should now see the web configurator **MAIN MENU** screen.

- Click **WIZARD** to begin a series of screens to help you configure your ZyWALL for the first time.
- Click a link under **ADVANCED** in the navigation panel to configure that ZyWALL feature.
- Click **MAINTENANCE** in the navigation panel to see ZyWALL performance statistics, upload firmware and back up, restore or upload a configuration file.
- Click **LOGOUT** when you have finished a ZyWALL management session. The ZyWALL automatically logs you out if it is left idle for five minutes; press **ENTER** to display the **Login** screen again and then log back in. This idle timeout timer is one of the many ZyWALL features that you may edit using the web configurator.



## Using the Wizard to Configure for Internet Access

**Step 1.** Click **Wizard Setup** in the main menu to display the first wizard screen.

**WIZARD SETUP**

**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:**

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.

For example, if the full address of your ISP's mail server is **mail.www.my.domain.com**, then the Domain Name is **www.my.domain.com**

**Domain Name:**

**System Name** is for identification purposes. Enter your computer's "Computer Name".

The **Domain Name** entry is what is propagated to the DHCP clients on the LAN. If you leave this blank, the domain name obtained by DHCP from the ISP is used. Click **Next** to continue.

**Step 2.** The second wizard screen has three variations depending on what encapsulation type you use. Use the information in *Internet Account Information* to fill in fields.

**WIZARD SETUP**

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

Choose **Ethernet** when the WAN port is used as a regular Ethernet. Choose from **Standard** or a RoadRunner version. You'll need **User Name**, **Password** and **Login Server IP Address** for some Roadrunner versions.

Point-to-Point Protocol over Ethernet (**PPPoE**) also functions as a dial-up connection. Therefore you'll also need a username and password and possibly the PPPoE service name. Your ISP will give you all needed information.

Choose **PPTP** if your service provider uses a DSL terminator with PPTP login. The ZyWALL must have a static IP address in this case. You'll also need a login name, associated password, the DSL terminator IP address and possibly a connection ID. Click **Next** to continue.

**Step 3.** Fill in the fields and click **Finish** to save and complete the wizard setup.

**WIZARD SETUP**

WAN IP Address Assignment

- Get automatically from ISP (Default)
- Use fixed IP address
  - IP Address: 0.0.0.0
  - IP Subnet Mask: 0.0.0.0
  - Gateway IP Address: 0.0.0.0

DNS Server Address Assignment

- Get automatically from ISP (Default)
- Use fixed IP Address - DNS Server IP Address
  - Primary DNS Server: 0.0.0.0
  - Secondary DNS Server: 0.0.0.0

WAN MAC Address

- Factory default
- Spoof this computer's MAC Address - IP Address: 192.168.1.33

Back Finish

**WAN IP Address Assignment**  
Select **Get automatically from ISP** if your ISP did not assign you a fixed IP address. Select **Use fixed IP address** if the ISP assigned a fixed IP address and then enter your IP address and subnet mask in the next two fields. Enter the gateway IP address in this field (if provided) when you select **Use Fixed IP Address**.

**DNS Server Assignment**  
Select **Get automatically from ISP** if your ISP does not give you DNS server addresses. If you selected the **Use fixed IP address - Primary/Secondary DNS Server** option, enter the provided DNS addresses in these fields.

**WAN MAC Address**

Select **Factory Default** to use the factory assigned default MAC address. Alternatively, select **Spoof this Computer's MAC address - IP Address** and enter the IP address of the computer on the LAN whose MAC address you are cloning.

## Test Your Internet Connection

Launch your web browser and navigate to [www.zyxel.com](http://www.zyxel.com). You don't need a dial-up program such as Dial Up Networking. Internet access is just the beginning. Refer to the *User's Guide* for more detailed information on the complete range of ZyWALL features.

## Troubleshooting

PROBLEM	CORRECTIVE ACTION
None of the LEDs turn on when you turn on the ZyWALL.	<p>Make sure that you have the correct power adapter connected to the ZyWALL and plugged in to an appropriate power source. Check all cable connections.</p> <p>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 ZyWALL from the LAN.	<p>Check the cable connection between the ZyWALL and your computer or hub. Refer to the <i>Rear Panel</i> section for details.</p> <p>Ping the ZyWALL from a LAN computer. Make sure your computer Ethernet card is installed and functioning properly.</p>
Cannot ping any computer on the LAN.	<p>If the 10/100M LAN LEDs are off, check the cable connections between the ZyWALL and your LAN computers.</p> <p>Verify that the IP address and subnet mask of the ZyWALL and the LAN computers are in the same IP address range.</p>
Cannot get a WAN IP address from the ISP.	<p>The WAN IP is provided after the ISP verifies the MAC address, host name or user ID.</p> <p>Find out the verification method used by your ISP and configure the corresponding fields.</p>
	<p>If the ISP checks the WAN MAC address, you should clone the MAC address from a LAN computer. Click <b>WAN</b> and then the <b>MAC</b> tab, select <b>Spoof this Computer's MAC address - IP Address</b> and enter the IP address of the computer on the LAN whose MAC address you are cloning.</p>
	<p>If the ISP checks the host name, enter your computer's name (refer to the <i>Wizard Setup</i> section in the <i>User's Guide</i>) in the <b>System Name</b> field in the first screen of the <b>WIZARD</b>.</p>
	<p>If the ISP checks the user ID, click <b>WAN</b> and then the <b>ISP</b> tab. Check your service type, user name, and password.</p>
Cannot access the Internet.	<p>Check the ZyWALL's connection to the cable/DSL device.</p>
	<p>Check whether your cable/DSL device requires a crossover or straight-through cable.</p>
	<p>Click <b>WAN</b> to verify your settings.</p>