

ZyAIR B-2000

Wireless LAN Gateway with 4-Port Switch

Quick Installation Guide

Version 3.50

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ZyXEL

TOTAL INTERNET ACCESS SOLUTION

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Introduction

About Your ZyAIR B-2000 Wireless LAN Gateway with 4-Port Switch

The ZyAIR B-2000 is a wireless sharing router with an integrated 4-port switch designed for telecommuters and home offices to access the Internet via cable or DSL modem. With a built-in IEEE 802.11b wireless access point, users enjoy wireless mobility to the wired network.

By integrating IEEE 802.1x and NAT the ZyAIR provides not only ease of installation and Internet access, but also a complete security solution that protects your network and efficiently manages data traffic on your network.

The embedded web configurator provides easy network management and is totally independent of your operating system.

Packaging List

The following items come with your ZyAIR.

- This Quick Installation Guide
- One 12 VDC power adapter
- One supporting CD (includes a User's Guide and Support Notes)
- One straight-through Ethernet cable
- Two 2dBi Omni antennas
- One console cable
- Desktop holder



Online Registration

Register online at www.zyxel.com for free future product updates and information.

WARNING!
USE ONLY THE INCLUDED POWER ADAPTER!
INAPPROPRIATE OPERATION WITH ANOTHER POWER
ADAPTER MIGHT DAMAGE YOUR DEVICE.

Hardware Installation

Attaching Antennas

Refer to the *User's Guide* for more information about the supplied antennas.

Follow the steps below to connect the supplied antennas.

Step 1. Locate the antenna connectors on the sides of your ZyAIR.

Step 2. Screw the antennas clockwise onto the antenna connectors.

Make sure the antennas are securely screwed onto the antenna connectors.



Diagram 1 Attaching Antenna

Hardware Mounting Installation

Free-standing

Place your ZyAIR on a flat, level surface (on a desk or shelf) that is sturdy enough to support the weight of the ZyAIR with connection cables.

With the Desktop Holder

The included desktop holder helps you organize the ZyAIR's connection cables.

- Step 1.** Secure the desktop holder to the back of the ZyAIR with the included screw.
- Step 2.** Turn the desktop holder up to the right.
- Step 3.** Refer to the *Hardware Connections* section. Connect the cables to the ports on the ZyAIR through the desktop holder.
- Step 4.** Turn the desktop holder down and place the unit on a flat, sturdy surface (on a desk or shelf).

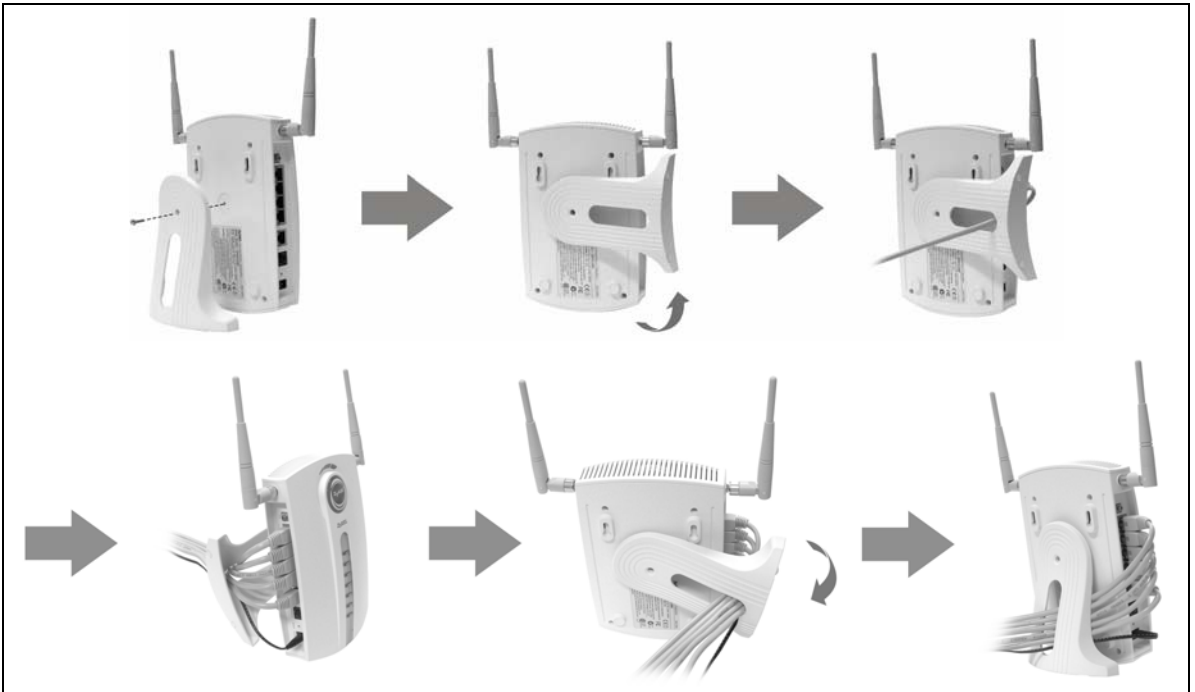


Diagram 2 Instructions using the Desktop Holder

Wall-mounted

Follow the steps to attach your ZyAIR to a wall.

- Step 1.** Locate a high position on the wall free of obstructions.
- Step 2.** Secure two screws in the wall **80 mm** apart. Do not screw the screws all the way into the wall. Leave a small gap between the head of the screws and the wall.

Failure to use the proper screws may damage the unit.

Make sure the screws are sturdy enough to hold the weight of the ZyAIR with the connection cables.

- Step 3.** Align the holes on the back of the ZyAIR with the screws on the wall. Hang the ZyAIR on the screws.

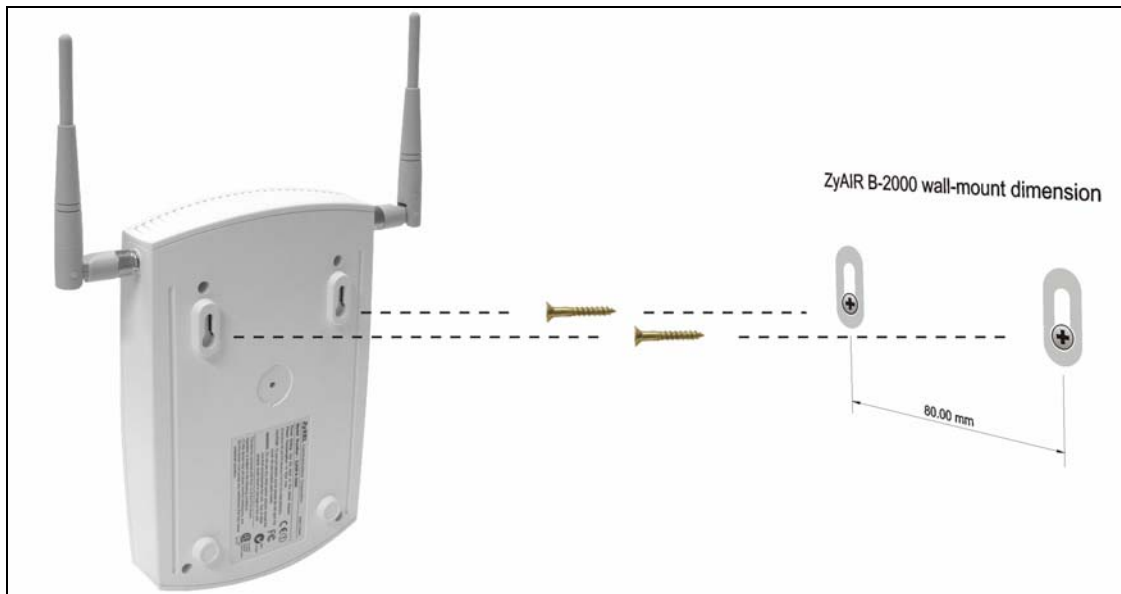


Diagram 3 Wall Mount your ZyAIR

Additional Installation Requirements

1. A computer(s) with an installed Ethernet NIC (Network Interface Card) or an IEEE 802.1b-compliant PCMCIA wireless LAN card.
2. To enable remote RADIUS authentication for wireless clients, you need
 - A wireless client computer running IEEE 802.1x-compliant client software. Currently, this is offered in Windows XP.
 - A network RADIUS server for remote user authentication and accounting.
3. A computer equipped with communications software (for example, Hyper Terminal in Windows) configured to the following parameters:
 - VT100 terminal emulation.
 - 9600 baud rate.
 - Parity set to none, 8 data bits, 1 stop bit.
 - Flow control set to none.
4. A cable/DSL modem and an ISP account.

Hardware Connections

Side Panel and Connections



CONNECTION	DESCRIPTION AND FUNCTION
POWER	This supplies the power to the unit. Connect the supplied power adaptor to the wall outlet and insert the small plug from the power adaptor to this socket.
RESET	This button resets the unit.
CONSOLE	This port is used for configuration and administration of the ZyAIR. Connect your administration computer to this port via an RS-232 cable.
WAN	Connect your Cable/DSL modem to this port.
LAN 1-4	These auto-sensing LAN ports are used to connect the ZyAIR to local computers or to an external hub. All LAN ports are auto-sensing. This means that these ports automatically adjust according to the type of cable, for example, Straight-through Ethernet cable or Crossover Ethernet cable.
F.G.	Ground the ZyAIR by connecting a grounded wire to the Frame Ground (F.G) terminal.

Warning!
Use only the supplied power adapter!

Using the RESET Button

- Step 1.** Use a pointed object to press the **RESET** button for 5-10 seconds (the SYS LED flashes), then release it.
- Step 2.** If the SYS LED flashes within 30 seconds, the factory defaults have been restored and the ZyAIR restarts. Otherwise, go to step 3.
- Step 3.** Turn the ZyAIR off.

Step 4. While pressing the **RESET** button, turn the ZyAIR on.

Step 5. Continue to hold the **RESET** button for about 30 seconds. The ZyAIR restarts.

Step 6. Release the **RESET** button and wait about ten seconds for the ZyAIR to finish restarting or until the SYS LED stops flashing.

The Front Panel

The LEDs on the front panel indicate the operational status of the ZyAIR.



Description of the LEDs

LED	COLOR	STATUS	DESCRIPTION
LINK	Green	On	The wireless card on the ZyAIR is working properly.
		Off	The wireless card on the ZyAIR is not ready or has a malfunction.
ZyAIR (WLAN ACK)	Blue	On (dim)	The ZyAIR is ready, but is not sending/receiving data through the wireless LAN.
		Breathing	The ZyAIR is sending/receiving data through the wireless LAN.
LAN 1-4	Green	On	The ZyAIR has a successful 10Mbps Ethernet connection.
		Blinking	The ZyAIR is sending/receiving data.
		Off	The ZyAIR does not have 10Mbps Ethernet connection.
	Orange	On	The ZyAIR has a successful 100Mbps Ethernet connection.
		Blinking	The ZyAIR is sending/receiving data.
		Off	The ZyAIR does not have 100Mbps Ethernet connection.
WAN	Green	On	The ZyAIR has successful 10Mbps WAN connection.
		Blinking	They ZyAIR is sending/receiving data.
		Off	The ZyAIR does not have 10Mbps WAN connection.
	Orange	On	The ZyAIR has successful 100Mbps WAN connection.
		Blinking	They ZyAIR is sending/receiving data.
		Off	The ZyAIR does not have 100Mbps WAN connection.
SYS	Green	On	The ZyAIR is functioning properly.
		Blinking	The ZyAIR is rebooting.
		Off	The ZyAIR is not ready or has malfunctioned.
PWR	Green	On	The ZyAIR is receiving power.
		Off	The ZyAIR is not receiving power.

Internet Account Checklist

Your ISP (Internet Service Provider) should have given you most of the following information. You do not need to fill in every blank.

REQUIRED INFORMATION	
Your device's WAN IP Address (if given): _____	
Encapsulation:	
<input type="checkbox"/> Ethernet	Service Type: _____ Login Server IP Address: _____ User Name: _____ Password: _____
<input type="checkbox"/> PPTP	User Name: _____ Password: _____ Your WAN IP Address: _____ PPTP Server IP Address: _____ Connection ID (if required): _____
<input type="checkbox"/> PPPoE	(PPPoE) Service Name: _____ User Name: _____ Password: _____

Setting Up the ZyAIR Using the Easy Setup Wizard

The support CD contains the Easy Setup Wizard to help you set up your ZyAIR and your wireless LAN quickly for Internet access. You may also use the embedded web-based configurator (as discussed in the next section).

Follow the steps below to start the Easy Setup Wizard.

- Step 1.** Insert the support CD into the CD-ROM drive on your computer.
- Step 2.** The installation wizard will auto-run and the screen shown below should appear. If it does not, click **Start, Run**, and then type **d:\Easy_Setup_Wizard.exe** (where “**d**” is your computer CD-ROM drive) and then click **OK**.



- Step 3.** Click **Set up ZyAIR for Internet Access** and follow the online instruction.

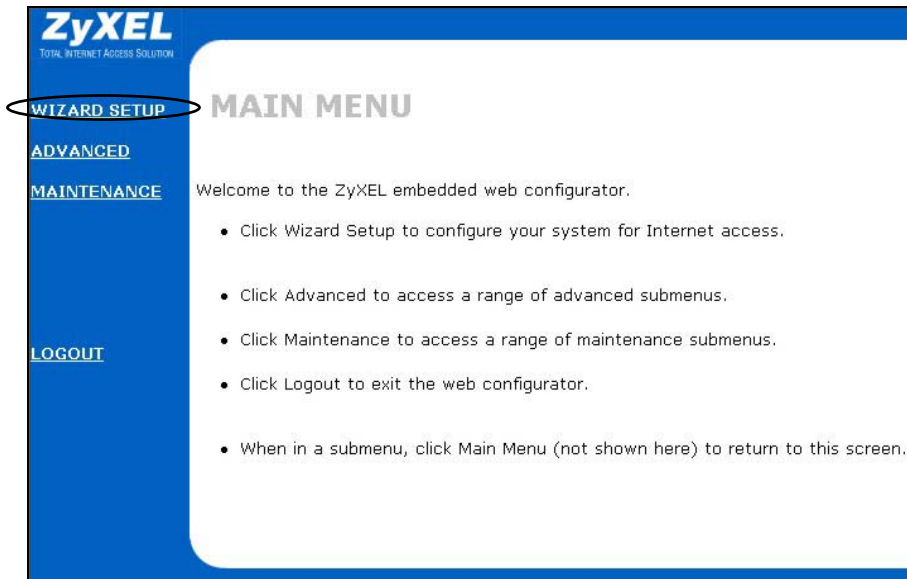
Internet Access Setup Using the Web Configurator Wizard

The web configurator provides user-friendly setup for your ZyAIR.

- Step 1.** Make sure your computer IP address and the ZyAIR IP address are on the same subnet. Refer to the section on *Preparing Your Network*.
- Step 2.** Launch your web browser and enter 192.168.1.1 (default) as the URL.
- Step 3.** Enter "1234" (default) as the password and click **Login**. You should see a screen asking you to change your password (highly recommended).



- Step 4.** Either enter a new password (and retype it to confirm) and click **Apply** or click **Ignore**.
- Step 5.** Click **WIZARD SETUP** in the **MAIN MENU** screen.



Step 5. Follow the online instruction to enter the fields in the screen displayed and click **Next**.

Step 6. Select encapsulation type and/or enter your Internet account information.

Case A: Internet Setup with Ethernet

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

Select **Ethernet** in this field.

Select a service type in this field.

Case B: Internet Setup with PPPoE

WIZARD SETUP

ISP Parameters for Internet Access

Encapsulation	<input type="text" value="PPP over Ethernet"/>	← Select PPP over Ethernet .
Service Name	<input type="text"/>	
User Name	<input type="text"/>	← Enter your Internet account information.
Password	<input type="password" value="*****"/>	
Idle Timeout	<input type="text" value="100"/> (In Second)	

Case C: Internet Connection with PPTP

WIZARD SETUP

ISP Parameters for Internet Access

Encapsulation: PPTP (dropdown menu) ← Select **PPTP**.

User Name: [text input field] ← Enter your Internet account information.

Password: [text input field]

Idle Timeout: [100] (In Second)

PPTP Configuration

My IP Address: [text input field] ← Enter IP addresses provided by your ISP.

Server IP Address: [text input field]

Connection ID/Name: [text input field] ← Enter this field if required.

[Back] [Next]

Configuring DHCP

The ZyAIR has built-in DHCP (Dynamic Hot Configuration Protocol) server capability, enabled by default. This allows the ZyAIR to assign IP addresses, an IP default gateway and DNS servers to Windows that support the DHCP client.

DNS (Domain Name System) is for mapping a domain name to its corresponding IP address and vice versa. If the **Primary/Secondary DNS Server** fields in **DHCP Setup** are not specified, for instance, left as 0.0.0.0, the ZyAIR tells the DHCP clients that it itself is the DNS server.

From the **MAIN MENU** screen, click on **ADVANCED** and then **LAN** to configure DHCP on the ZyAIR.

The screenshot shows the 'LAN SETUP' configuration page. It is divided into two main sections: 'DHCP Setup' and 'LAN TCP/IP'. The 'DHCP Setup' section includes a checked 'DHCP Server' box, an 'IP Pool Starting Address' field with the value '192.168.1.33', a 'Pool Size' field with the value '32', and 'Primary DNS Server' and 'Secondary DNS Server' fields both set to '0.0.0.0'. The 'LAN TCP/IP' section includes an 'IP Address' field with the value '192.168.1.1', an 'IP Subnet Mask' field with '255.255.255.0', a 'Multicast' dropdown set to 'None', a 'RIP Direction' dropdown set to 'Both', and a 'RIP Version' dropdown set to 'RIP-1'. At the bottom are 'Apply' and 'Reset' buttons. Callout boxes provide instructions: 'Select this check box to enable DHCP server.' points to the 'DHCP Server' checkbox; 'Enter the beginning IP address.' points to the 'IP Pool Starting Address' field; 'Enter the size of IP address pool.' points to the 'Pool Size' field; 'Enter the IP addresses for the DNS servers. (Optional)' points to the 'Primary/Secondary DNS Server' fields; and 'This is the default ZyAIR LAN IP address.' points to the 'IP Address' field.

Make sure the IP pool starting address and the ZyAIR LAN IP address are on the same subnet.

Wireless LAN Setup

From the **MAIN MENU** screen, click on **ADVANCED** and then **WIRELESS** to configure wireless LAN settings on the ZyAIR.

The screenshot shows the 'WIRELESS LAN' configuration page. It has three tabs: 'Wireless', 'MAC Filter', and 'Roaming'. The 'Wireless' tab is active. The page is titled 'Wireless LAN Setup' and contains the following fields and options:

- ESSID:** A text input field containing 'Wireless'. A callout box points to this field with the text: 'Enter a descriptive name.'
- Hide ESSID:** A dropdown menu set to 'No'. A callout box points to this dropdown with the text: 'Select **Yes** to hide your ZyAIR in a wireless LAN.'
- Channel ID:** A dropdown menu set to 'Channel-01 2412MHz'. A callout box points to this dropdown with the text: 'Select a radio channel depending on your region.'
- RTS/GTS:** A checked checkbox. A callout box points to this checkbox with the text: 'Select **Enable** to turn on WEP encryption.'
- Fragmentation:** An unchecked checkbox.
- Threshold:** Two input fields. The first is '0' (range 0 ~ 2432) and the second is '2432' (range 256 ~ 2432).
- WEP Encryption:** A dropdown menu set to 'Disable'. A callout box points to this dropdown with the text: 'Select **Enable** to turn on WEP encryption.'
- WEP Keys:** Four radio buttons labeled 'Key 1', 'Key 2', 'Key 3', and 'Key 4', each followed by an empty text input field. A callout box points to these fields with the text: 'Follow the online instruction to create your WEP keys. All four keys must be entered but only one key should be selected at any one time.'

At the bottom of the page are 'Apply' and 'Reset' buttons.

The wireless clients and ZyAIR must use the same ESSID, Channel ID and WEP encryption key (if WEP is enabled) for wireless communication.

Activating User Authentication

Before a wireless client can communicate on your network through your ZyAIR, it must be authenticated by the ZyAIR and your network.

From the **MAIN MENU**, click on **ADVANCED**, **802.1x** and then click on the **System** tab.

The screenshot shows the '802.1X Authentication Setting' configuration page. It has two tabs: 'List' and 'System', with 'System' selected. Under 'Authentication Control', there are three radio button options: 'Force Authorized', 'Force Unauthorized', and 'Auto'. The 'Auto' option is selected, and an arrow points from a callout box to it. Below this is the 'System Parameter' section, which includes a 'ReAuthentication Period' field with the value '1800'. An arrow points from another callout box to this field. At the bottom of the page are 'Apply' and 'Reset' buttons.

802.1X Authentication Setting

List **System**

Authentication Control

- Force Authorized
- Force Unauthorized
- Auto

System Parameter

ReAuthentication Period:

Choose **Auto** to enable user authentication.

Specify the time intervals (in seconds) between user authentication checks.

Once you enable user authentication, you need to specify an external RADIUS server or create user accounts.

Setting External RADIUS Server

RADIUS (Remote Authentication Dial In User Service) server enables authentication, authorization and accounting for your network.

The screenshot shows the RADIUS configuration interface. It is divided into two sections: Authentication and Accounting. Each section has an 'Active' checkbox, a 'Server IP' text box, a 'Port' text box, and a 'Shared Secret' text box. The Authentication section has 'Server IP' set to 0.0.0.0 and 'Port' set to 1812. The Accounting section has 'Server IP' set to 0.0.0.0 and 'Port' set to 1813. At the bottom are 'Apply' and 'Reset' buttons. Three callout boxes on the right point to the 'Active' checkbox, the 'Server IP' text box, and the 'Shared Secret' text box in the Authentication section.

RADIUS

RADIUS

Authentication

Active

Server IP

Port

Shared Secret

Accounting

Active

Server IP

Port

Shared Secret

Apply Reset

Select **Active** to enable RADIUS authentication.

Enter the IP address of the RADIUS server.

Enter a password up to 31 characters long.

If you do not enable the RADIUS authentication, ZyAIR will authenticate wireless clients using local user profile.

The Shared Secret must be the same on the ZyAIR and the external RADIUS server.

Creating User Profiles on the ZyAIR

By storing user profiles locally, your ZyAIR is able to authenticate wireless users without interacting with a network RADIUS server. You can set up to 32 user profiles on the ZyAIR.

From the **MAIN MENU** screen, click **802.1x**, then select a user and click **Edit**.

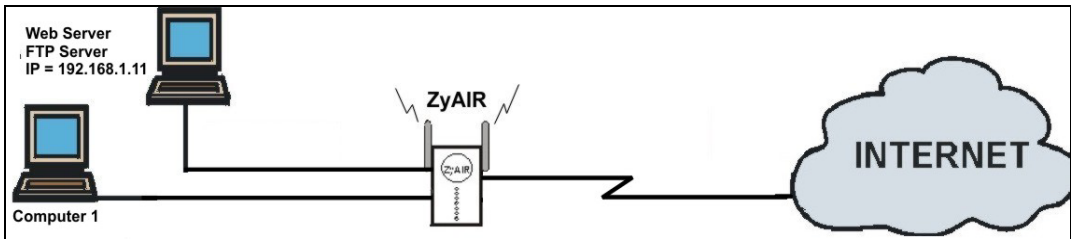
The screenshot shows the '802.1X User Profile' configuration interface. It features a yellow background with a white header area containing the title '802.1X User Profile'. Below the header is a white box with a yellow border containing the 'User Profile' settings. At the top of this box is a yellow tab labeled 'User Profile'. The settings include a checkbox for 'Active', three text input fields for 'User ID', 'Password', and 'Confirm', and two buttons at the bottom: 'Apply' and 'Reset'. Two callout boxes are present: one pointing to the 'Active' checkbox with the text 'Select **Active** to enable the user profile.', and another pointing to the three input fields with the text 'Enter the user information in these fields.'

Port Forwarding

A NAT server set is a list of inside (behind NAT on the LAN) servers, for example, web or FTP, that you can make visible to the outside world.

A port number identifies a service. Port forwarding forwards incoming service requests to the server(s) on your local network. Refer to the *User's Guide* for port numbers used for common services.

Example: Internet Access with Inside Servers



Step 1. In the **WAN Setup – IP** screen, select **SUA Only** in the **Network Address Translation** field.

WAN SETUP

ISP
IP
MAC

WAN IP Address Assignment

Get automatically from ISP (Default)
 Use fixed IP address

IP Address
 IP Subnet Mask
 Gateway IP Address

Network Address Translation SUA Only

RIP Direction
 RIP Version
 Multicast

Windows Networking (NetBIOS over TCP/IP) Pass Through

From LAN to WAN
 Enable Trigger Dial

Apply
Reset

Step 2. In the **SUA Server** screen, enter the port numbers (for the services) and IP address of the inside server.

SUA/NAT

SUA Server **Addr Mapping**

Default Server 0.0.0.0

#	Active	Name	Start Port	End Port	Server IP Address
1	<input checked="" type="checkbox"/>	Mail	25	25	192.168.1.11
2	<input checked="" type="checkbox"/>	Web	80	80	192.168.1.11
3	<input type="checkbox"/>		0	0	0.0.0.0
4	<input type="checkbox"/>		0	0	0.0.0.0
5	<input type="checkbox"/>		0	0	0.0.0.0
6	<input type="checkbox"/>		0	0	0.0.0.0
7	<input type="checkbox"/>		0	0	0.0.0.0
8	<input type="checkbox"/>		0	0	0.0.0.0
9	<input type="checkbox"/>		0	0	0.0.0.0
10	<input type="checkbox"/>		0	0	0.0.0.0
11	<input checked="" type="checkbox"/>	RR-Reserv	1027	1027	192.168.1.1

Preparing Your Network

All computers must have a 10M or 100M Ethernet adapter 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 95/98/Me/NT/2000/XP, Macintosh OS 7 and later operating systems and all versions of UNIX/LINUX include the software components you need to install and use TCP/IP on your computer. Windows 3.1 requires the purchase of a third-party TCP/IP application package.

After the appropriate TCP/IP components are installed, configure the TCP/IP settings in order to "communicate" with your network.

The ZyAIR assigns these factory default values if you configure TCP/IP using DHCP:

- IP address: between 192.168.1.33 and 192.168.1.64
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.1.1 (the ZyAIR)

These procedures are for dynamic IP addresses. Do not assign an arbitrary IP address or subnet mask to your computer, if you do, you will not be able to access the Internet.

Setting up Your Windows 95/98/Me Computer

Configuring TCP/IP

1. Click **Start, Settings, Control Panel** and double-click the **Network** icon.
2. In the **Network** window **Configuration** tab, select your network adapter's **TCP/IP** entry and click **Properties**.
3. Click the **IP Address** tab. Click **Obtain an IP address automatically**.
4. Click the **DNS Configuration** tab. Select **Disable DNS**.
5. Click the **Gateway** tab. Highlight any installed gateways and click **Remove** until there are none listed.
6. Click **OK** to save and close the **TCP/IP Properties** window.
7. Click **OK** to close the **Network** window.
8. Turn on your ZyAIR and restart your computer when prompted. Insert the Windows CD if prompted.

Verifying TCP/IP Properties

1. Click **Start** and then **Run**. In the **Run** window, type "winipcfg" and then click **OK** to open the **IP Configuration** window.
2. Select your network adapter. You should see your computer's IP address, subnet mask and default gateway.

Setting up Your Windows NT/2000/XP Computer

Configuring TCP/IP

1. Click **Start, Settings, Network and Dial-up Connections** and right-click **Local Area Connection** or the connection you want to configure and click **Properties**. For Windows XP, click **start, Control Panel, Network and Internet Connections** and then **Network Connections**. Right-click the network connection you want to configure and then click **Properties**.
2. Select **Internet Protocol (TCP/IP)** (under the **General** tab in Win XP) and click **Properties**.
3. The **Internet Protocol TCP/IP Properties** window opens. Click **Obtain an IP address automatically**.
4. Click **Obtain DNS server automatically**.
5. Click **Advanced, IP Settings** tab and remove any installed gateways, then click **OK**.
6. Click **OK** to save and close the **Internet Protocol (TCP/IP) Properties** window.
7. Click **OK** to close the **Local Area Connection Properties** window.
8. Turn on your ZyAIR and restart your computer (if prompted).

Verifying TCP/IP Properties

1. Click **Start, Programs, Accessories** and then **Command Prompt**.
2. In the **Command Prompt** window, type "ipconfig" and then press **ENTER**. The window displays information about your IP address, subnet mask and default gateway.

Setting up Your Macintosh Computer

Configuring TCP/IP Properties

1. Click the **Apple** menu, **Control Panel** and double-click **TCP/IP** to open the **TCP/IP Control Panel**.
2. Select **Ethernet** from the **Connect via** list.
3. Select **Using DHCP Server** from the **Configure** list.
4. Close the **TCP/IP Control Panel**.
5. Click **Save** if prompted, to save changes to your configuration.
6. Turn on your ZyAIR and restart your computer (if prompted).

Verifying TCP/IP Properties

Check your TCP/IP properties in the **TCP/IP Control Panel**.

Troubleshooting

PI OBLEM	CORRECTIVE ACTION
The PWR LED is off.	<p>Make sure you are using the correct power adapter and the power adapter is plugged into an adequate power supply.</p> <p>Turn the ZyAIR off and on. If the error persists, you may have a hardware problem. In this case, you should contact your vendor.</p>
The LAN LED won't turn on.	<p>Check the cable connection to the ZyAIR LAN port.</p> <p>Make sure your computer NIC (Network Interface Card) is working properly.</p>
I cannot access the SMT menu.	<p>The default SMT password is "1234". If you have changed the password and have now forgotten it, you will need to upload the default configuration file (see <i>User's Guide</i>).</p>
I cannot access the web configurator.	<p>Check that your computer IP address and the ZyAIR IP address are on the same subnet.</p> <p>The default password is "1234". If you have changed the password and have now forgotten it, you will need to upload the default configuration file (see <i>User's Guide</i>).</p> <p>If you changed the ZyAIR default LAN IP address then enter the new one as the URL.</p> <p>Remove any filters you have applied in menu 3.1 (LAN) or in menu 11.5 (WAN) to block web service.</p>
I cannot ping any computer on the LAN.	<p>If all of the 10/100M LAN LEDs are off, check the cables between the ZyAIR and your computer or hub.</p> <p>Verify that the IP address and the subnet mask of the ZyAIR and the computers are on the same subnet.</p> <p>Check the TCP/IP configuration on your computer. Make sure that the IP address and the subnet mask of the ZyAIR and the computers are on the same subnet.</p>
I 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>
I cannot access the Internet.	<p>Make sure the ZyAIR is turned on and connected to the network.</p> <p>Make sure you entered your user name correctly. A username may be case-sensitive.</p>
Internet connection disconnects	<p>Check the schedule rules in SMT menu 26.</p> <p>If you use PPPoE encapsulation, check the idle time-out setting in SMT menu 11.5.</p> <p>Contact your ISP.</p>

Cut out this page to mark the points on the wall for the screws.

