

MAX208M

Quick Start Guide

WiMAX Indoor Gateway

Software Version 2.00
Edition 1, 2/2011

DEFAULT LOGIN DETAILS

IP Address: http://192.168.1.1

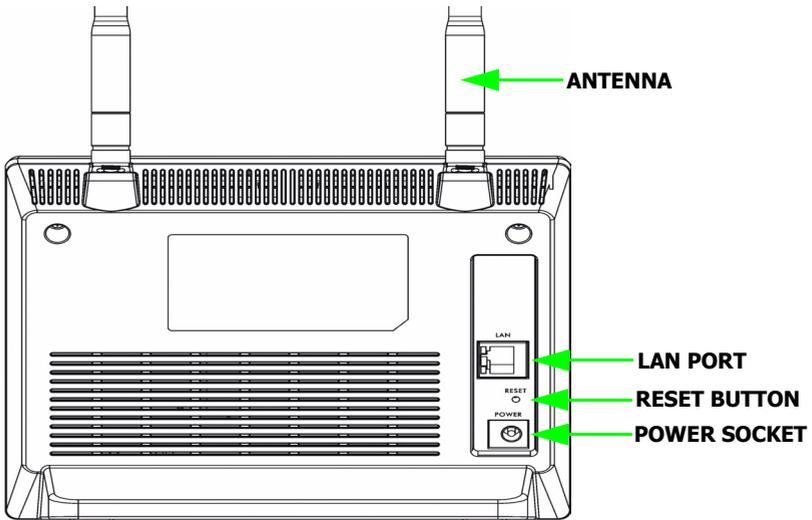
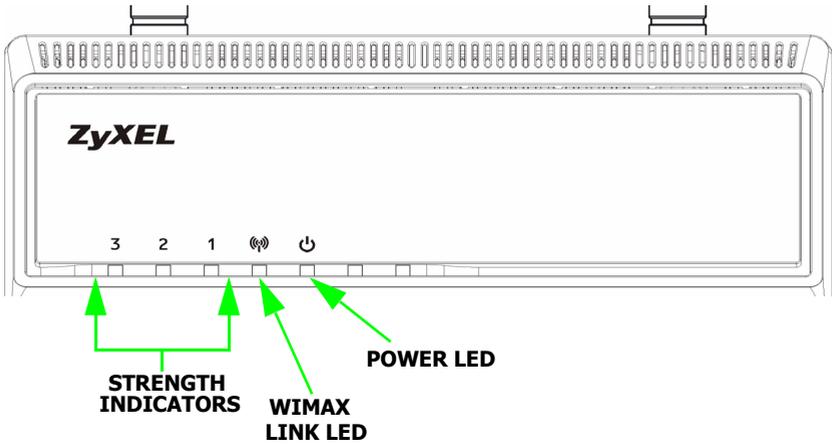
Admin's User
Name and
Password: admin / 1234

Guest's User
Name and
Password: guest / guest



ZyXEL

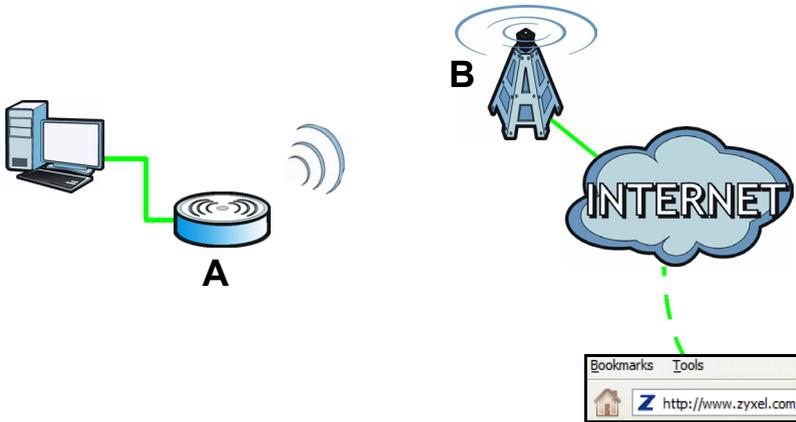
LEDs and Ports



Introduction

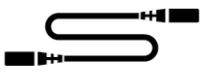
Your MAX208M lets your computer connect wirelessly to the Internet at broadband speeds.

How It Works



A computer connects to the MAX208M (**A**). The device then connects wirelessly to a WiMAX base station (**B**), which connects to the Internet.

Package Content

<p>The WiMAX Modem</p> 	<p>The Quick Start Guide</p> 	<p>The Warranty Card</p> 
<p>ZyXEL Support Disc containing the User's Guide and device drivers</p> 	<p>12V DC Adapter, provided with the device</p> 	<p>RJ-45 Ethernet cable to connect a computer to the MAX208M</p> 

System Requirement

The computer you will use to access the device's Web Configurator must meet the following minimum requirements:

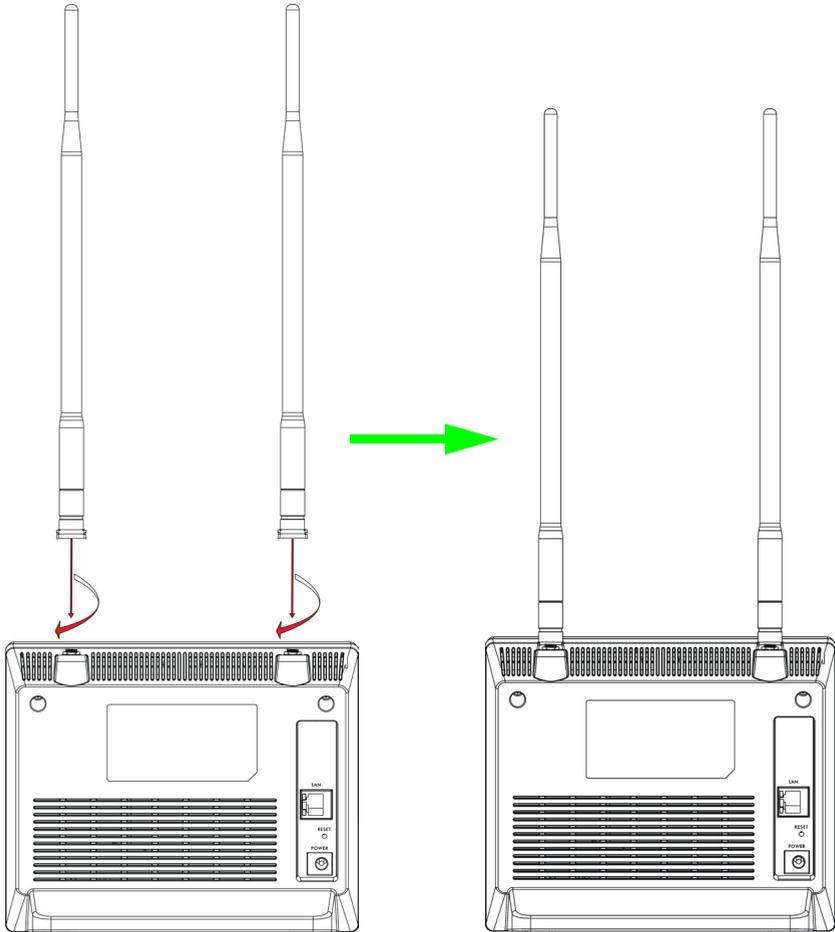
- 64 MB RAM
- 20 MB of available hard disk space
- One available 10/100 Mbps Ethernet port
- Internet Explorer 6, Firefox 1.5 and higher, or a compatible browser

Setting Up Your Modem

This section shows you how to set up your WiMAX Modem.

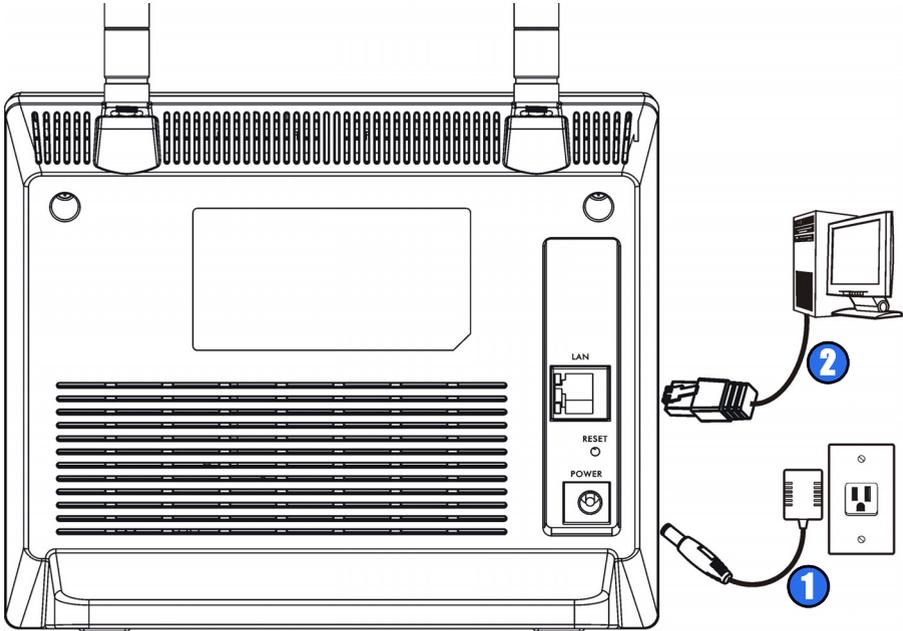
Connecting the Antennas

Attach the external antennas to their connectors as follows:



Hardware Connections

You will need a valid WiMAX account to connect to the Internet.



1. Connect the **Power Adapter**. During start up, the **Power** LED blinks as the MAX208M self-tests, then it shines a steady green.
2. Connect one end of an **RJ-45 Ethernet cable** to one of the LAN ports, and the other end to the computer that you intend to connect to the Internet. Once connected to the LAN, the LAN LED shines a steady green. It blinks when there is activity.

Placing the MAX208M

When you are placing the MAX208M, be careful of the following:

- Place the MAX208M indoors in an area free of moisture and excessive humidity and/or heat.
- Keep the MAX208M away from other wireless devices, cordless phones, microwave devices, or radio transmitters as they may interfere with its connections.
- Keep the MAX208M free of obstruction.

Connecting to the Internet

This section shows you how to connect to the Internet with your MAX208M.

1. Check your MAX208M's **WiMAX Link** LED.



- If everything is connected properly and a WiMAX base station is within range, then the **WiMAX Link** LED shines a steady green, indicating a stable connection. The **Strength Indicator** LEDs will turn on to show the signal strength as follows: LED 1 - low strength signal; LEDs 1 and 2 - medium strength signal; LEDs 1, 2 and 3 - high strength signal. If the signal strength is low or medium, you can try to adjust the position of the device to increase the strength. Go to step 2.
- If the **WiMAX Link** LED is blinking, then the MAX208M is undergoing a self-test. If it turns a steady green shortly thereafter, this indicates a stable connection. Go to step 2.
- If the **WiMAX Link** LED remains off or continues blinking, you will not be able to connect. See the User's Guide for more troubleshooting steps.

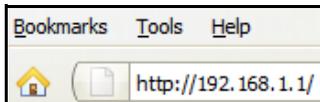
2. Open a web browser.

- If your service provider's WiMAX login page appears instead of your default Home page, enter the login information that you were given and follow the on-screen instructions. The MAX208M should then automatically update itself with the settings that you need to connect to the Internet.
- If your service provider's WiMAX login page does not appear, then you may need to manually set up the Internet connection (next section).

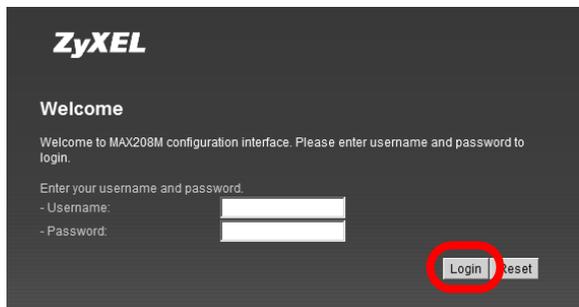
Internet Connection Setup

This section shows you how to manually configure the MAX208M's Internet connection.

1. Open a web browser and enter <http://192.168.1.1> in the address bar.



2. Enter the default **User Name** and **Password** (see the cover page of this guide), and then click **Login**.

A screenshot of the ZyXEL MAX208M configuration interface. The page has a dark background with white text. At the top left is the "ZyXEL" logo. Below it is the heading "Welcome". The text reads: "Welcome to MAX208M configuration interface. Please enter username and password to login." Below this is the instruction "Enter your username and password." followed by two input fields: "- Username:" and "- Password:". At the bottom right of the form area are two buttons: "Login" and "Reset". The "Login" button is circled in red.

3. The **System Status** screen appears. Click on the **Setup Wizard** button, located on the upper right corner of the screen.

ZyXEL MAX208M English **Setup Wizard** Logout

System Information	
System Model Name	MAX208M
Software Version	2.00(UUC.0)02112011A_1139
Firmware Version	v2.8.9
Firmware Date	Fri Feb 11 09:59:09 AM 2011
System Time	Wed Dec 29 16:37:47 2010
Uptime	00:15:07

System Resources	
Memory	59%
CPU	0%

WIMAX	
Device Status	Ready
Connection Status	Disconnected
BSID	00:00:00:00:00:00
Frequency	0
Signal Strength	
Link Quality	

WAN	
Status	Disconnected
MAC Address	00:23:F8:01:01:02
IP Address	N/A
Subnet Mask	N/A
Gateway	N/A
MTU	N/A
DNS	N/A

LAN	
MAC Address	00:23:F8:01:01:01
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
MTU	1500

System Status WIMAX Network Setting Security Maintenance

4. When the **Setup Wizard** opens, review the steps you will take to configure your MAX208M then click **Next** to continue.

Welcome to the Setup Wizard

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This wizard will guide you through a step-by-step process to set up basic CPE settings.

Step 1: LAN Settings

Step 2: WIMAX Frequency Settings

Step 3: WIMAX Authentication Settings

Follow the wizard until all the steps are completed. The LAN and WIMAX setting required by the Setup Wizard should be given by your service providers.

5. **LAN Settings:** Configure the network settings that allow devices connected to your MAX208M to get on the Internet or connect to other network services. Then Click **Next**.

Setup Wizard

Step 1: LAN Settings

LAN TCP/IP

IP Address: 192.168.1.1
IP Subnet Mask: 255.255.255.0

DHCP Server

Enable:
Start IP: 192.168.1.33
End IP: 192.168.1.132
Lease Time: 1440 (minutes)

DNS Server assigned by DHCP Server

First DNS Server: From ISP 0.0.0.0
Second DNS Server: From ISP 0.0.0.0
Third DNS Server: From ISP 0.0.0.0

Back Next

- 6. WiMAX Frequency Settings:** Configure the radio frequency on which your MAX208M sends and receives data. Then click **Next**.

Setup Wizard

Step 2: WiMAX Frequency Settings

Set Frequency

Setting Type: By List

Bandwidth: 10 MHz

#	Frequency(MHz)	Add
Total Num: 0		

Valid Band Info:

#	Band Start(KHz)	Band End(KHz)
1	2490000	2700000
Total Num: 1		

Back Next

- 7. WiMAX Authentication Settings:** Configure how your device logs into the service provider's network. Then click **Next**.

Setup Wizard

Step 3: WiMAX Authentication Settings

Authentication

Authentication Mode: User and device authentication

EAP Supplicant

EAP Mode: EAP-TTLS

Anonymous ID: [Text Field]

Ignore Cert Verification:

Server Root CA Cert. File: [Text Field] Browse...

Server Root CA Cert. Info: No certificate file found

Device Cert. File: [Text Field] Browse...

Device Cert. Info: No certificate file found

Device Private Key: [Text Field] Browse...

Device Private Key Info: No private key found

Back Next

8. After going through the screens in the wizard, the process is complete. Click the save button to save all your settings.

Setup Complete

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Your setup is complete!
Press the save button to save all the settings.

Troubleshooting

Use this section if you have problems with your WiMAX Modem.

I cannot access the WiMAX Modem from my LAN:

- Check the cable connection between the WiMAX Modem and your computer or switch and ensure that both ends are secure.
- Make sure your computer has gotten an IP address (default is 192.168.1.x) in the same network as the MAX208M's LAN. If not, you can manually configure your computer by clicking **Start > Control Panel > Network Connections > Local Area Connection > Properties > Internet Protocol (TCP/IP)**.
- Ping the WiMAX Modem from a LAN computer: Click **Start > (All) Programs > Accessories > Command Prompt**. When the command prompt window opens, type "ping 192.168.1.1" without quotes and press [ENTER]. The WiMAX Modem should reply.
- Press and hold the **Reset** button for about 10 seconds to reset the device to its default factory settings, then try to connect to the IP 192.168.1.1 once more.

I cannot log into the Web Configurator:

- Check to see if anyone else is currently logged into the WiMAX Modem. If so, you may not be able to log in until they log out first.

If you've forgotten the WiMAX Modem's user name, password, or IP address press and hold the **Reset** button for about 10 seconds. The WiMAX Modem returns to the factory default settings listed on the first page of this book.

See the User's Guide on the CD or www.zyxel.com for more information.

Was this guide helpful? Send your comments to techwriters@zyxel.com.tw.