

WAB-3003 108M 11g Outdoor PoE AP

Quick Installation Guide v1.0



Preface

The 802.11 b/g compliant **WAB-3003** is a Long Range Outdoor CPE/AP/Bridge device that can be used for dual purposes. First, it can be deployed as a traditional fixed wireless Access Point (AP). Secondly, it can be used as a Customer Premises Equipment (CPE) that connects to the wireless outdoor network of Wireless Internet Service Provider (WISP).

The metal sealed WAB-3003 is compact in size and weatherproof. Coming with a mounting kit, it can be mounted on a pole or wall. It is suitable for both indoor and outdoor usage with its 200mW output power, which is higher than a typical indoor AP (100mW) and lower than a typical WISP's outdoor AP (500mW).

This Quick Installation Guide (including FAQ Instruction Guide) provides instructions for getting started with WAB-3003.

Package Contents

- 1. WAB-3003 x 1
- 2. Quick Installation Guide (QIG) x 1
- 3. User's Manual with CD-ROM x 1
- 4. Power Sourcing Equipment (PSE) with AC cable x 1
- 5. Mounting Kit x 1
- 6. Water Proof Connector Pack x 1

Caution: It is recommended to keep the original packing material for possible future shipment when repair or maintenance is required. Any returned product should be packed in its original packaging to prevent damage during delivery.

System Overview

WAB-3003

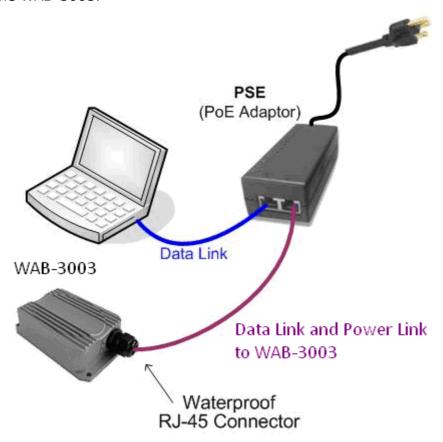


1	WLAN	Green LED ON indicates system ready		
2	Wireless Signal	For showing the signal strength situation		
	Strength			
3	Ethernet	Green LED ON indicates connection, OFF indicates r		
		connection, and BLINKING indicates transmitting data.		
4	PoE Connector	For connecting to the Power Sourcing Equipment (PSE)		
5	N-type Connector	For connecting to an antenna		
6	Power	Red LED ON indicates power on, and OFF indicates power		
		off		
<i>7</i> ∼8	Wireless Signal	For showing the signal strength situation (7: Yellow; 8:		
	Strength	Green)		

Hardware Installation

WAB-3003

The following diagram is a **basic network topology** which can be used for testing and configuring the WAB-3003.



Installation Steps:

- **Step 1.** Connect an N-type antenna to the N-type connector.
- Step 2. Connect the PSE (POWER & DATA OUT) to the PSE 1 connector on the lower panel.
- **Step 3.** Connect one end of an Ethernet cable to the PSE 2 connector on the lower panel and the other end to a computer.
- **Step 4.** Connect the power cord to the PSE.
- **Step 5.** Power on the PSE in order to supply power to the WAB-3003.

Getting Started

WAB-3003 supports web-based configuration. WAB-3003 is a dual-mode system, **AP Mode** as the default mode for the first time entering the system, which also can be configured as either an access point (**AP Mode**) or a gateway (**CPE Mode**) based on your needs. It is required to follow the respective installation procedures provided to properly set up the desired mode for this system.

• Default IP Address of Web Management Interface:

The default IP address and Subnet Mask for the AP mode and CPE mode are as follows:

Mode	AP Mode	CPE Mode	
IP Address	192.168.0.1	192.168.0.1	
Subnet Mask	255.255.255.0	255.255.255.0	

Default User Name and Password:

The default user name and password for both the **root** and **admin** account are as follows:

Mode	AP Mode	CPE Mode	
Management Account	Root Account	Root Account	Admin Account
User Name	root	root	admin
Password	admin	admin	password

Access WMI (Web Management Interface) Login Pages

Step 1: IP Segment Setup for Administrator PC

Set a static IP address on the same subnet mask as WAB-3003 in TCP/IP of the administrator PC, such as the following example. Do not duplicate the IP address used here with the IP address of WAB-3003 or any other devices within the same network. (AP Mode – Default Mode needed; CPE Mode can set DHCP IP address without setting static IP address)

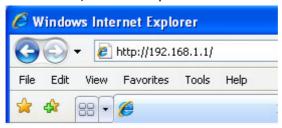
>> Example of IP Segment:

The valid range of IP address is $1 \sim 254$. However, **1** must be avoided as it is already used by WAB-3003. Below depicts an example of using **100** (the underlined value can be changed as desired).

IP Address: 192.168.0.**100** Subnet Mask: 255.255.25.0

Step 2: Launch Web Browser

Launch a web browser to access the web management interface by entering the default IP address, http://192.168.0.1/, in the URL field, and then press *Enter*.



Step 3: System Login

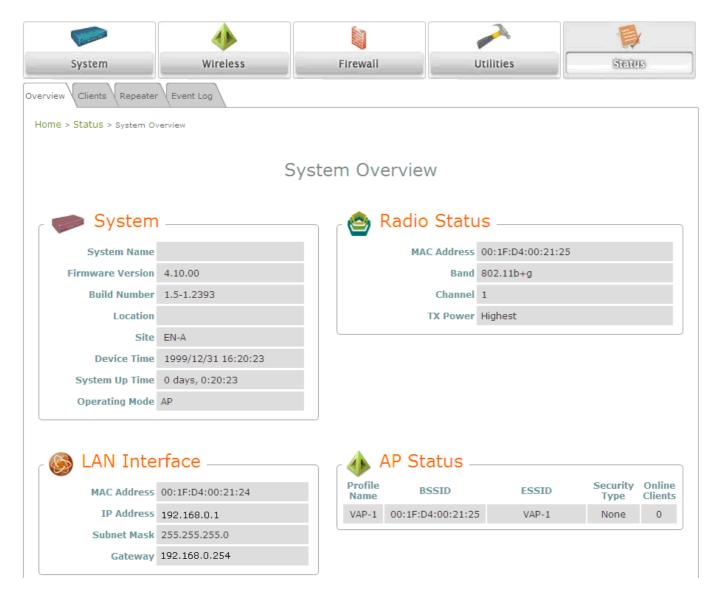
The system manager Login Page will then appear.

Enter "root" in the *User name* field and "admin" in the *Password* field, and then click *Login* to log in. (CPE Mode has two Management Account that the front pages mentions before)



Step 4: Login Success

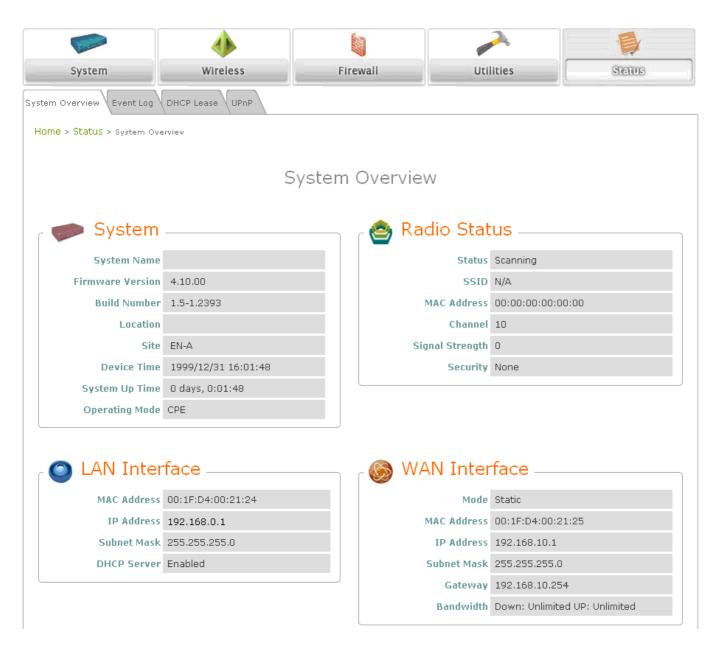
After a successful login to WAB-3003, a **System Overview** page of WMI will appear. To logout, simply click on the **Logout** button at the upper right hand corner of the interface.



AP Mode - System Overview

Note:

By default, AP mode is enabled. Therefore, the administrator must access the system via the AP mode login page for the first time. The administrator is then able to switch between modes afterwards.

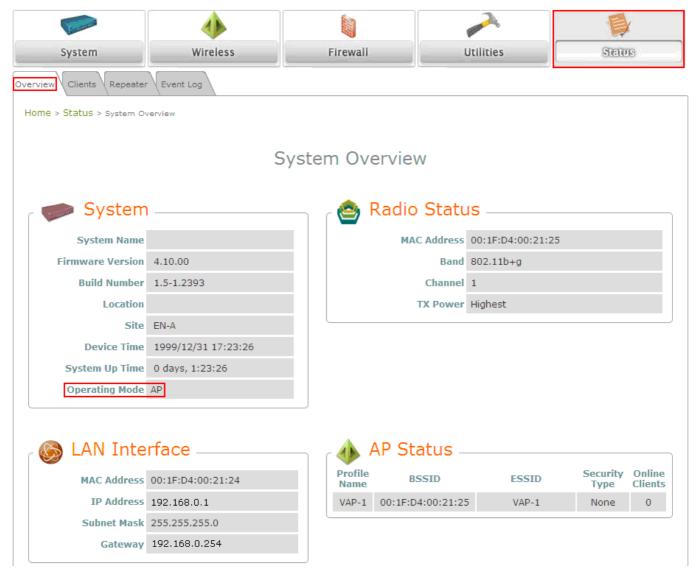


CPE Mode - System Overview

Common Settings

<AP Mode - Default Mode>

Step 1: Mode Confirmation



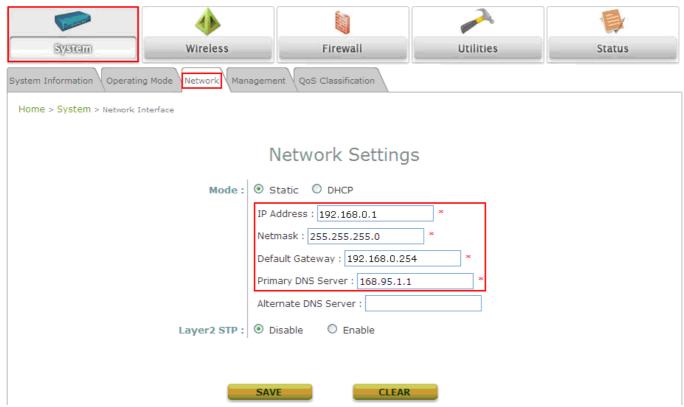
- ➤ Ensure the *Operating Mode* is currently in **AP** mode.
- Click on the Status button and then select the System Overview tab. The Operating Mode is at the System section on the System Overview page.

Step 2: Change Password



- > Click on the **Utilities** button and then select the **Password** tab.
- ➤ Enter a new password in the *New Password* field and retype it in the *Re-enter New Password* field.
- > Click **SAVE** to save the changes.

Step 3: Network Settings



Settings here are for example only

- > Click on the **System** button and then select the **Network** tab.
- ➤ Enable *Static*, and then enter the related information in the fields marked with red asterisks.
- Click SAVE to save the settings.

Step 4: ESSID Settings



- > Click on the **Wireless** button and then select the **General** tab.
- **Band:** Select an appropriate band from the drop-down list box.



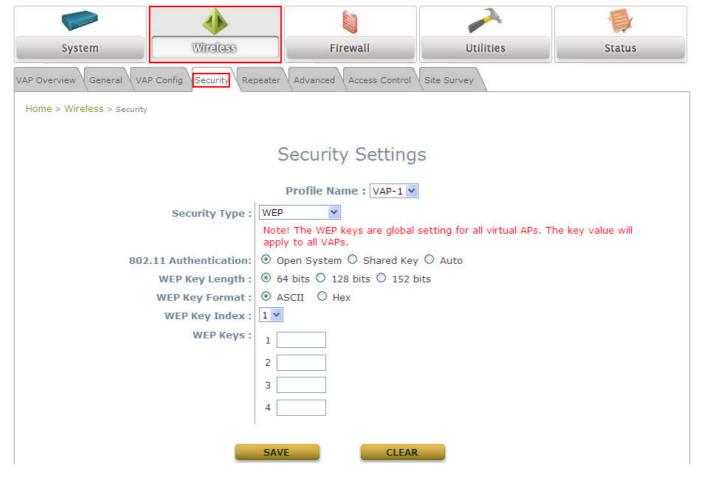
- Click on the Wireless button and then select the VAP Config tab.
- ➤ **ESSID:** Enter respective ESSID for each VAP in the *ESSID* field or use the default. **ESSID** (Extended Service Set Identifier) is a unique identifier used for networking devices to get associated with WAB-3003.

Note:

For QoS classification, please enable VLAN ID and specify a VLAN ID with respective ESSID.

Click SAVE to save the settings.

Step 5: Security Settings



- Click on the Wireless button and then select the Security tab.
- ➤ Select the desired *VAP Profile and Security Type* from the drop-down list boxes. The above figure depicts an example of selecting VAP-1 and **WEP**.
- Enter the information required in the blank fields.

Caution:

You must use the same information provided here to configure the network devices that are to be associated with WAB-3003.

 Click SAVE to save all settings configured so far. All updated settings will take effect upon reboot

Congratulation!

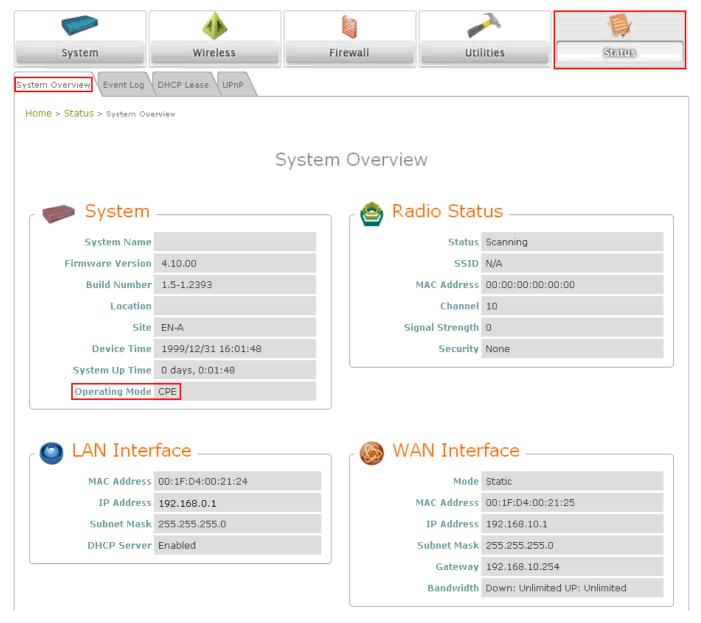
The AP mode is now successfully configured.

Caution:

After WAB-3003's network configuration completes, please remember to change the IP Address of your PC Connection Properties back to its original settings in order to ensure that your PC functions properly in its real network environments.

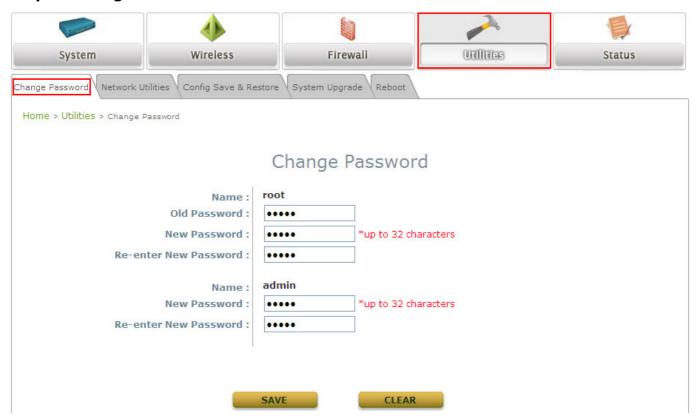
<CPE Mode>

Step 1: Mode Confirmation



- ➤ Ensure the *Operating Mode* is currently in **CPE** mode.
- > Click on the **Status** button and then select the **System Overview** tab. The *Operating Mode* is at the **System** section on the **System Overview** page.

Step 2: Change Password



Click on the **Utilities** button and then select the **Password** tab.

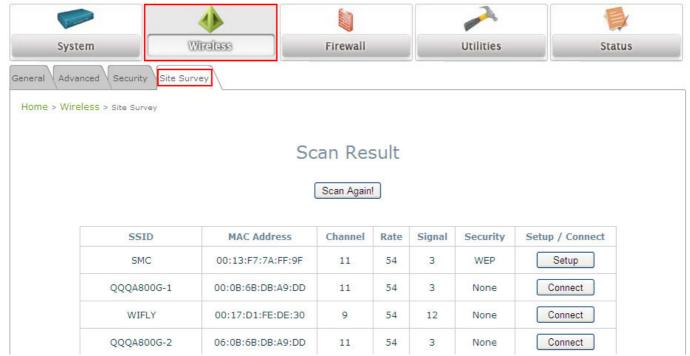
Change Root Account Password

- Enter the old password in the Old Password field; default password is "admin".
- Enter a new password in the *New Password* field and retype it in the *Re-enter New Password* field.

> Change Admin Account Password

- Enter a new password in the *New Password* field and retype it in the *Re-enter New Password* field.
- Click SAVE to save the changes.

Step 3: Site Survey



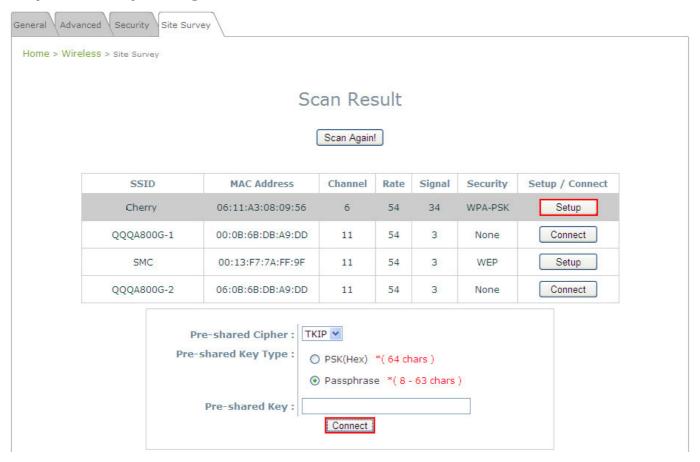
The scan result displayed here is an example only

- > Click on the **Wireless** button and then select the **Site Survey** tab.
- > The system will automatically scan and display all APs in its coverage area.
- Click Scan Again! If the APs to be associated with are not listed on the Scan Result list.

Step 4: Select AP to be Associated

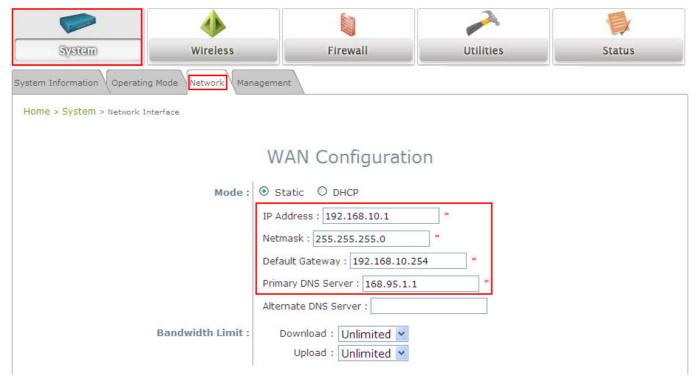
> Select an AP to be associated with from the **Scan Result** list provided in **Step 3**.

Step 5: Security Settings



- ➤ The above figure depicts an example of selecting **Cherry** (encrypted via WEP-PSK security type).
- > Click **Setup** of **Cherry**, and then a related encryption configuration box will appear.
- ➤ Enter the information required in the configuration box. Information to be entered must be exactly the same as configured in the selected AP.
- Click Connect to start the connection.

Step 6: Network Interface Configuration



Settings here are for example only

- Click on the System button and then select Network tab.
- > Enable Static, and then enter the related information in the fields marked with red asterisks.
- Click SAVE to save the settings.

Step 7: LAN Configuration

- > Click on the **System** button and then select the **Network** tab.
- ➤ The LAN Configuration section is on the same page as the WAN Configuration section.
- ➤ Enter the *IP Address* and *Netmask* of the LAN port.
- ➤ Click **SAVE** to save all settings configured so far, all updated settings will take effect upon reboot.

Congratulation!

The CPE mode is now successfully configured.

Caution:

After WAB-3003's network configuration completes, please remember to change the IP Address of your PC Connection Properties back to its original settings in order to ensure that your PC functions properly in its real network environments.

- It is strongly recommended to make a backup copy of configuration settings.
- For further configuration and backup information, please refer to the User's Manual.