



**WAB-3003**  
**108M 11g Outdoor PoE AP**

Quick Installation Guide v1.1



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## Preface

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The 802.11 b/g compliant **WAB-3003** is a Long Range Outdoor AP device that can be deployed as a traditional fixed wireless Access Point (AP). 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).

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

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## Package Contents

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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	Power	Red LED ON indicates Power on, and OFF indicates power off
2~3	Wireless Signal Strength	For showing the signal strength situation (7: Yellow; 8: Green)
4	WLAN	Green LED ON indicates system ready
5	Wireless Signal Strength	For showing the signal strength situation
6	Ethernet	Green LED ON indicates connection, OFF indicates no connection, and BLINKING indicates transmitting data.
7	RJ – 45 PoE Connector	For connecting to the Power Sourcing Equipment (PSE)
8	N-type Connector	For connecting to an antenna
9	Reset Button *(Screw)	For resetting the system of AP

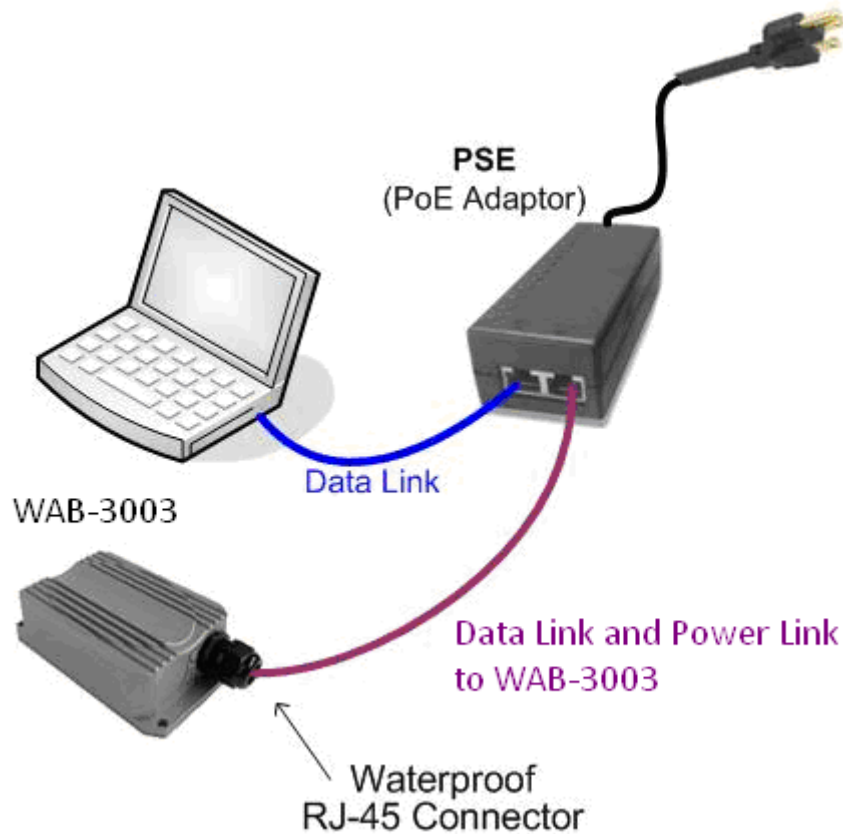
### Reset Procedure

1. Make sure the WAB-3003 completes booting and is already running (The booting process of system usually takes 2 minutes)
2. \*Unscrew the Screw then you will see a reset button (inside the hole)
3. Use the provided reset pin to press and hold the reset button for 15 seconds
4. Release the reset button and leave the system re-booting for 2 minutes

## 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 is a pure Access Point which supports web-based configuration. It is required to follow the respective installation procedures provided to properly set up the system.

- **Default IP Address of Web Management Interface:**

The default IP address and Subnet Mask for the WAB-3033 are as follows:

<b>IP Address</b>	192.168.0.1
<b>Subnet Mask</b>	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:

<b>Management Account</b>	<b>Root Account</b>
<b>User Name</b>	root
<b>Password</b>	admin

## 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. ( Default Mode needed.)

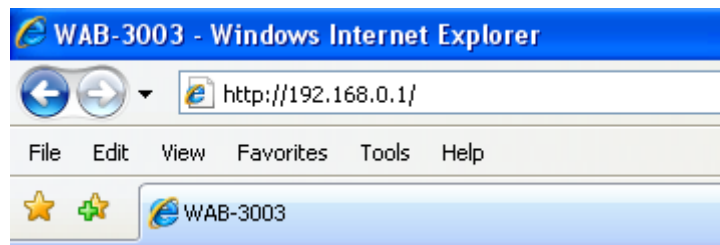
#### >> Example of IP Segment:

The valid range of IP address is 1 ~ 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: 255.255.255.0

### 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.



#### 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.

The screenshot displays the LevelOne WAB-3003 Wireless Outdoor AP management interface. At the top, there is a navigation bar with the LevelOne logo, the device name 'WAB-3003 Wireless Outdoor AP', and links for Home, Logout, and Help. Below this is a main menu with buttons for System, Wireless, Firewall, Utilities, and Status. The 'Status' button is highlighted.

The main content area is titled 'System Overview' and contains several sections:

- System**: A table listing system details.

System Name	WAB-3003
Firmware Version	1.00.00
Build Number	1.10-1.2617
Location	Greenwich
Site	EN-E
Device Time	1999/12/31 16:03:30
System Up Time	0 days, 0:03:30
Operating Mode	AP
- Radio Status**: A table listing radio configuration.

MAC Address	00:1F:D4:00:20:F1
Band	802.11b+g
Channel	1
TX Power	Highest
- LAN Interface**: A table listing LAN configuration.

MAC Address	00:1F:D4:00:20:F0
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Gateway	192.168.0.254
- AP Status**: A table listing active AP profiles.

Profile Name	BSSID	ESSID	Security Type	Online Clients
VAP-1	00:1F:D4:00:20:F1	LevelOne	None	0

# Common Settings

## Step 1: System Overview

The screenshot displays the LevelOne WAB-3003 Wireless Outdoor AP web interface. At the top, there is a navigation bar with the LevelOne logo, the device name 'WAB-3003 Wireless Outdoor AP', and links for Home, Logout, and Help. Below this is a main menu with buttons for System, Wireless, Firewall, Utilities, and Status. The Status button is highlighted. Underneath the main menu, there are tabs for Overview, Clients, and Event Log. The Overview tab is selected, and the breadcrumb trail shows 'Home > Status > System Overview'. The main content area is titled 'System Overview' and contains four sections: System, Radio Status, LAN Interface, and AP Status. The System section shows details like System Name (WAB-3003), Firmware Version (1.00.00), Build Number (1.10-1.2617), Location (Greenwich), Site (EN-E), Device Time (1999/12/31 16:03:30), System Up Time (0 days, 0:03:30), and Operating Mode (AP). The Radio Status section shows MAC Address (00:1F:D4:00:20:F1), Band (802.11b+g), Channel (1), and TX Power (Highest). The LAN Interface section shows MAC Address (00:1F:D4:00:20:F0), IP Address (192.168.0.1), Subnet Mask (255.255.255.0), and Gateway (192.168.0.254). The AP Status section shows a table with columns for Profile Name, BSSID, ESSID, Security Type, and Online Clients, with one entry for VAP-1.

levelone<sup>®</sup> WAB-3003 Wireless Outdoor AP

Home Logout Help

System Wireless Firewall Utilities Status

Overview Clients Event Log

Home > Status > System Overview

### System Overview

#### System

System Name	WAB-3003
Firmware Version	1.00.00
Build Number	1.10-1.2617
Location	Greenwich
Site	EN-E
Device Time	1999/12/31 16:03:30
System Up Time	0 days, 0:03:30
Operating Mode	AP

#### Radio Status

MAC Address	00:1F:D4:00:20:F1
Band	802.11b+g
Channel	1
TX Power	Highest

#### LAN Interface

MAC Address	00:1F:D4:00:20:F0
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Gateway	192.168.0.254

#### AP Status

Profile Name	BSSID	ESSID	Security Type	Online Clients
VAP-1	00:1F:D4:00:20:F1	LevelOne	None	0

- Click on the **Status** button and then select the **System Overview** tab.



## Step 2: Change Password

The screenshot displays the LevelOne WAB-3003 Wireless Outdoor AP web interface. At the top, there is a navigation bar with the LevelOne logo, the device model name, and links for Home, Logout, and Help. Below this is a main menu with buttons for System, Wireless, Firewall, Utilities, and Status. The Utilities button is highlighted, and a sub-menu is visible with options: Change Password, Network Utilities, Config Save & Restore, System Upgrade, and Reboot. The Change Password page is active, showing a breadcrumb trail: Home > Utilities > Change Password. The main content area is titled "Change Password" and contains a form with the following fields: Name (root), Old Password (masked with four dots), New Password (masked with four dots, with a red note "\*up to 32 characters"), and Re-enter New Password (masked with four dots). At the bottom of the form are two yellow buttons: SAVE and CLEAR.

- 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

The screenshot shows the LevelOne WAB-3003 Wireless Outdoor AP web interface. At the top, there is a navigation bar with the LevelOne logo and the product name. Below this is a menu with five main categories: System, Wireless, Firewall, Utilities, and Status. The 'System' category is selected, and within it, the 'Network' tab is active. The breadcrumb trail reads 'Home > System > Network Interface'. The main content area is titled 'Network Settings' and contains the following configuration options:

- Mode :**  Static  DHCP
- IP Address :**  \*
- Netmask :**  \*
- Default Gateway :**  \*
- Primary DNS Server :**  \*
- Alternate DNS Server :**
- Layer2 STP :**  Disable  Enable

At the bottom of the form, there are two yellow buttons: 'SAVE' and 'CLEAR'.

*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

The screenshot displays the configuration interface for a LevelOne WAB-3003 Wireless Outdoor AP. At the top, there is a navigation bar with the LevelOne logo and the device model name. Below this is a main menu with buttons for System, Wireless, Firewall, Utilities, and Status. The Wireless button is highlighted. Underneath, there are sub-tabs for VAP Overview, General, VAP Config, Security, Advanced, and Access Control. The General tab is selected. The main content area shows the 'General Settings' for the Wireless section. It includes a breadcrumb trail: Home > Wireless > General. The settings are as follows:

- Band : 802.11b+802.11g (dropdown menu)
- Super G :  Bursting  Fast Frames  Dynamic Turbo
- Short Preamble :  Disable  Enable
- Channel : 1 (dropdown menu)
- Max Transmit Rate : Auto (dropdown menu)
- Transmit Power : Auto (dropdown menu)
- Beacon Interval : 100 \*(100 - 500ms)

At the bottom of the settings area, there are two yellow buttons: SAVE and CLEAR.

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

levelone® WAB-3003 Wireless Outdoor AP Home Logout ? Help

System **Wireless** Firewall Utilities Status

VAP Overview General VAP Config Security Advanced Access Control

Home > Wireless > VAP Config

### VAP Configuration

Profile Name : VAP-1

VAP :  Disable  Enable

Profile Name :

ESSID :

VLAN ID :  Disable  Enable

VLAN ID :  \*( 1 - 4094 )

- 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

The screenshot shows the LevelOne WAB-3003 Wireless Outdoor AP configuration interface. At the top, there is a navigation bar with 'Home', 'Logout', and 'Help' links. Below this is a main menu with buttons for 'System', 'Wireless', 'Firewall', 'Utilities', and 'Status'. The 'Wireless' button is highlighted. Underneath, there are sub-tabs for 'VAP Overview', 'General', 'VAP Config', 'Security', 'Advanced', and 'Access Control'. The 'Security' tab is selected. The main content area is titled 'Security Settings' and contains the following fields and options:

- Profile Name: VAP-1 (dropdown)
- Security Type: WEP (dropdown)
- Note: The WEP keys are global setting for all virtual APs. The key value will apply to all VAPs.
- 802.11 Authentication:  Open System  Shared Key  Auto
- WEP Key Length:  64 bits  128 bits  152 bits
- WEP Key Format:  ASCII  Hex
- WEP Key Index: 1 (dropdown)
- WEP Keys: 1, 2, 3, 4 (input fields)
- SAVE and CLEAR buttons

- 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.*

- ***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.***