

Wireless Setup guide – Billion BIPAC 8700AXL

Login to Web User Interface

- 1 Connect a computer and the **Billion BIPAC 8700 AXL** using an Ethernet cable. (A yellow Ethernet cable was provided with your **Billion BIPAC 8700 AXL**).
- 2 Open a web browser (such as Google Chrome or Mozilla Firefox), type following address into the address bar and press Enter.

The interface of the Billion BiPac 8700AXL modem is generally accessed via 192.168.1.254

- 3 Enter the following credentials in the Username and Password fields:

Username: **admin**

Password: **admin**

Sign in

http://192.168.1.254

Your connection to this site is not private

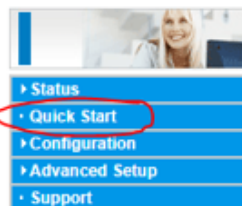
Username

Password

Sign in

Cancel

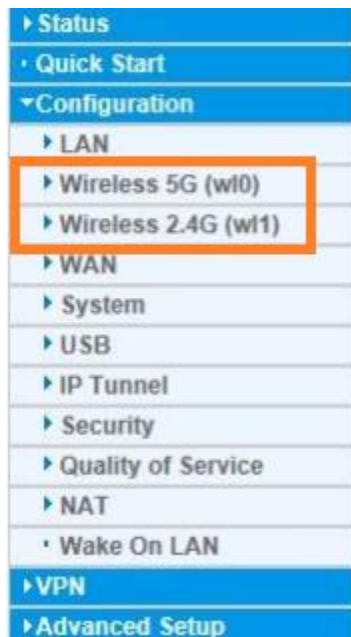
Once logged in you will be redirected to the Device Information page.



Status	
▼ Device Information	
Model Name	BiPAC 8700AXL
Host Name	home.gateway
System Up-Time	0D 0H 5M 9S
Date/Time	Thu Jan 1 00:05:09 1970 <input type="button" value="Sync"/>
Software Version	2.52.d4
LAN IPv4 Address	192.168.1.254
LAN IPv6 Address	fe80::6203:47ff:fe39:ae2/64
MAC Address	60:03:47:39:0a:e2
DSL PHY and Driver Version	A2pv6F039v.d26q_rc1a
Wireless Driver Version	7.49.6

Wi-Fi 2.4GHz/WiFi 5GHz

The Billion Bipac 8700 AXL allows you to maintain separate wireless settings for both 2.4GHz and 5GHz wireless services. Select the service you want to use (or both) and separately configure them:



- We recommend that you access the web interface over a wired connection (using Ethernet cable) to change the Wi-Fi security key/password.
- We also recommend that you change the Wi-Fi network name/SSID (e.g. NetComm 8386) before changing the Wi-Fi security key (Wi-Fi password).

Wireless – Basic

It let you determine whether to enable Wireless function and set the basic parameters of an AP and the Virtual APs.

- 1 Navigate to **Configuration > Basic**

Wireless: Default setting is set to Enable. If you do not have any wireless devices, check the checkbox again to unselect.

Hide SSID: It is function in which transmits its SSID to the air so that when wireless client searches for a network, router can then be discovered and recognized. Check the checkbox to determine whether you want to hide SSID.

SSID: The SSID is the unique name of a wireless access point (AP) to be distinguished from another. For security purpose, change the default wlan-ap-2.4g to a unique ID name to the AP already builtin to the router's wireless interface. ***It is case sensitive and must not excess 32 characters.*** Make sure your wireless clients have exactly the SSID as the device, to get connected to your network.

- 2 Confirm that **Enable Wireless** is selected.

Configuration

Basic

Parameters

Wireless Enable

Hide SSID Enable

Clients Isolation Enable

Disable WMM Advertise Enable

Wireless Multicast Forwarding (WMF) Enable

SSID wlan-ap-2.4g

BSSID 00:04:ED:01:00:02

Country UNITED STATES

Country RegRev 0

Max Clients 16 [1-16]

Wireless - Guest/Virtual Access Points

SSID	Hidden	Clients Isolation	Disable WMM Advertise	WMF	Max Clients	BSSID	Enable
wl0_Guest1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15	N/A	<input type="checkbox"/>
wl0_Guest2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15	N/A	<input type="checkbox"/>
wl0_Guest3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15	N/A	<input type="checkbox"/>

Apply Cancel

- 3 The old WiFi network name/SSID on this example is “**wlan-ap 2.4G**”. Delete the old WiFi network name/SSID and enter a new SSID (For example: **Tangerine 2.4G**)
- 4 Press the “**Apply/Save**” button.

Wireless – Security

NOTE: The WPS feature will also be unavailable when the security setting is not WPA2 PSK or OPEN. So, if you manually set the wireless security setting, you should give notice to it, but you can find prompt indicating configuration.

Wireless security prevents unauthorized access or damage to computers using wireless network.

To change the Wi-Fi security key, navigate to **Configuration > 2.4GHz/5GHz > Security**.

Delete all the dots (encrypted password) in the **WPA/WAPI passphrase** text entry field. Enter a new password and click **Apply/Save**. After changing the password, click the [Click here to display](#) link next to WPA/WAPI passphrase to check the new Wi-Fi password. A pop-up window displays your new Wi-Fi password.

WPA2-PSK

Network Authentication WPA2-PSK

Protected Management Frames Disable

WPA/WAPI passphrase [Click here to display](#)

WPA Group Rekey Interval 3600 [0-2147483647]

WPA/WAPI Encryption AES

WEP Encryption Disabled

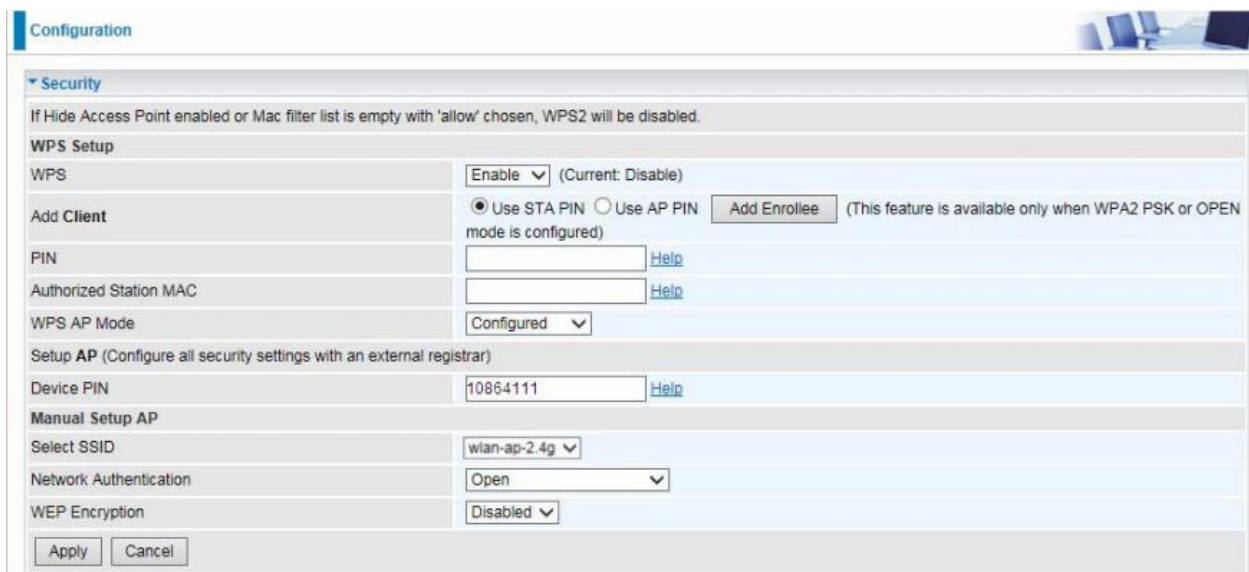
WPS Set Up

WPS (Wi-Fi Protected Setup) feature is a standard protocol created by Wi-Fi Alliance. WPS is used to exchange the AP setting with Station and configure Ap settings. This feature greatly simplifies the steps needed to create a Wi-Fi network for a residential or an office setting. The commonly known **PIN method** is supported to configure WPS.

WPS: Select enable to enable WPS function. Please note that WPS can only be available when WPA2-PSK or OPEN mode is configured.

Note:

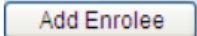
- 1) WPS feature is only available when in WPA2 PSK or OPEN mode in security settings.
- 2) Here wireless can be configured as **Registrar** and **Enrollee** mode respectively. When AP is configured as Registrar, you should select “Configured” in the WPS AP Mode below, and default WPS AP Mode is “Configured”. When AP is configured as Enrollee, the WPS AP Mode below should be changed to “Unconfigured”. Follow the following steps.



The screenshot shows a web interface for configuring WPS. The page is titled "Configuration" and has a "Security" section expanded. A warning message states: "If Hide Access Point enabled or Mac filter list is empty with 'allow' chosen, WPS2 will be disabled." The "WPS Setup" section includes a "WPS" dropdown set to "Enable" (Current: Disable). Below it are radio buttons for "Use STA PIN" (selected) and "Use AP PIN", with an "Add Enrollee" button and a note: "(This feature is available only when WPA2 PSK or OPEN mode is configured)". There are input fields for "PIN" and "Authorized Station MAC", each with a "Help" link. The "WPS AP Mode" dropdown is set to "Configured". The "Setup AP (Configure all security settings with an external registrar)" section has a "Device PIN" input field with the value "10864111" and a "Help" link. The "Manual Setup AP" section includes a "Select SSID" dropdown set to "wlan-ap-2.4g", a "Network Authentication" dropdown set to "Open", and a "WEP Encryption" dropdown set to "Disabled". At the bottom are "Apply" and "Cancel" buttons.

Configure AP as Registrar

- **Add Enrollee with PIN method**

1. Select radio button “Enter STA PIN”.
2. Input PIN from Enrollee Station (16837546 in this example), Or else users can alternatively enter the authorized station MAC Help: it is to help users to understand the concept and correct operation.
3. Click .

Security

If Hide Access Point enabled or Mac filter list is empty with 'allow' chosen, WPS2 will be disabled.

WPS Setup

WPS	Enable (Current: Disable)
Add Client	<input checked="" type="radio"/> Use STA PIN <input type="radio"/> Use AP PIN <input type="button" value="Add Enrollee"/> This feature is available only when WPA2 PSK or OPEN mode is configured
PIN	16837546 Help
Authorized Station MAC	<input type="text"/> Help
WPS AP Mode	Configured

Add the PIN

Setup AP (Configure all security settings with an external registrar)

Device PIN	10864111 Help
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Manual Setup AP

Select SSID	wlan-ap-2.4g
Network Authentication	Open
WEP Encryption	Disabled

<input type="button" value="Apply"/>	<input type="button" value="Cancel"/>
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