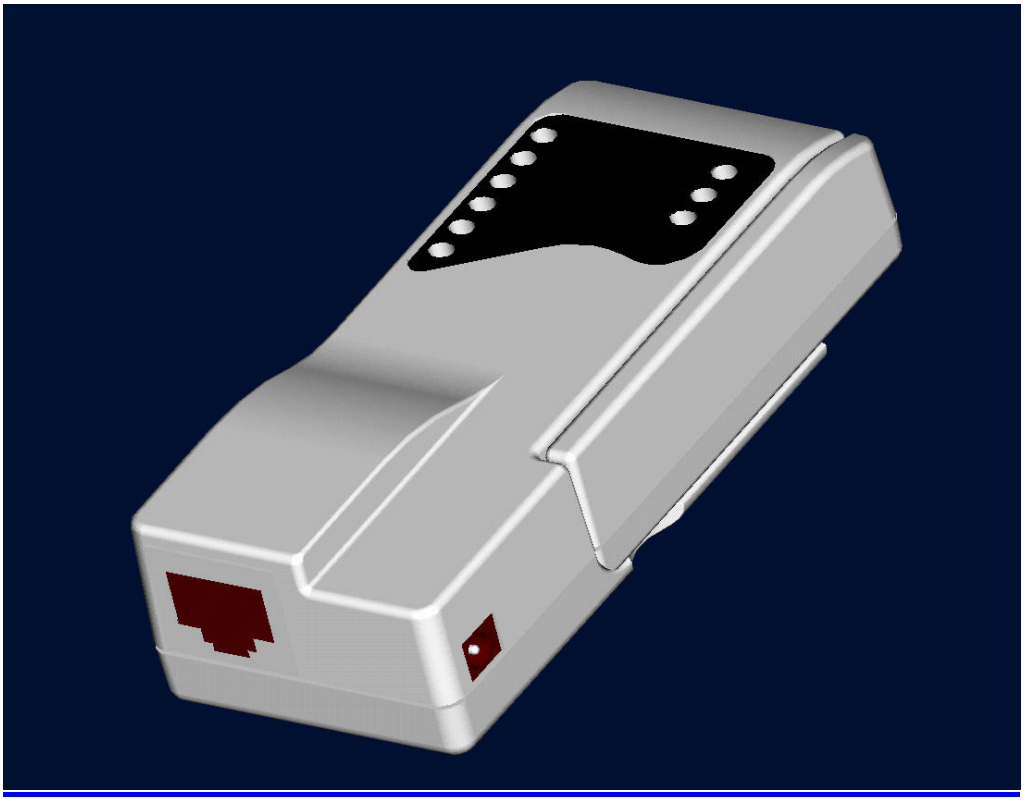
Wireless Access Point / Ethernet Bridge

Model Name: WP310A

Quick Install Guide

Hardware Installation

❖ Making a Connection



1. RJ45 port connects to a hub/switch or PC - Use a standard Ethernet RJ-45 cable.
2. Check the LED of "**LAN**" port on front panel, it must be on.
   If not, to ensure that the cable is connected properly.
3. Connect the power adapter to "**DC 5V**".

Attention:

- The cable distance between the Router and PC/hub/Switch should not exceed 100 meters.
- Make sure the wiring is correct. In 10Mbps operation, Category 3/4/5 cable can be used for connection. To reliably operate your network at 100Mbps, you must use Category 5 cable, or better Data Grade.

Software Installation

Before Setup...

❖ Verify the IP address setting

You need to configure your PC's network settings to obtain an IP address. Computer use IP addresses to communicate with each other across a network, such as the Internet.

1. From the taskbar, click the **Start** button, select **Settings** > **Control Panel**. From there, double-click **the Network connections** icon.
2. Right click the **Local Area Connection** icon **Properties**; select the **TCP / IP** line for the applicable Ethernet adapter. Then, click the **Properties** button.
3. Click the **IP Address** tab page, select **USE the following IP address**, type **192.168.1.1** ~ **192.168.1.254** (but, **192.168.1.20** for the device use) in the I**P Address** field and **255.255.255.0** in the **Subnet Mask** field, then click **OK** button.

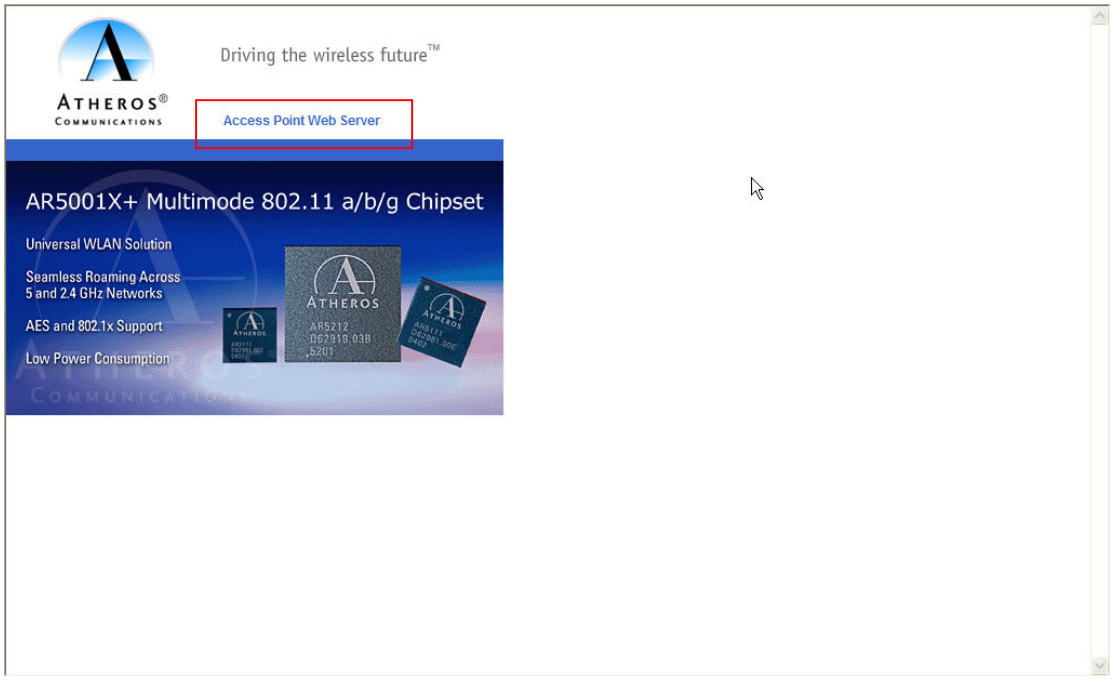
Start Setup...

1. After getting the correct connection, start the web browser (make sure you disable the proxy) and type **192.168.1.20** in the **Address** field. Press **Enter**.

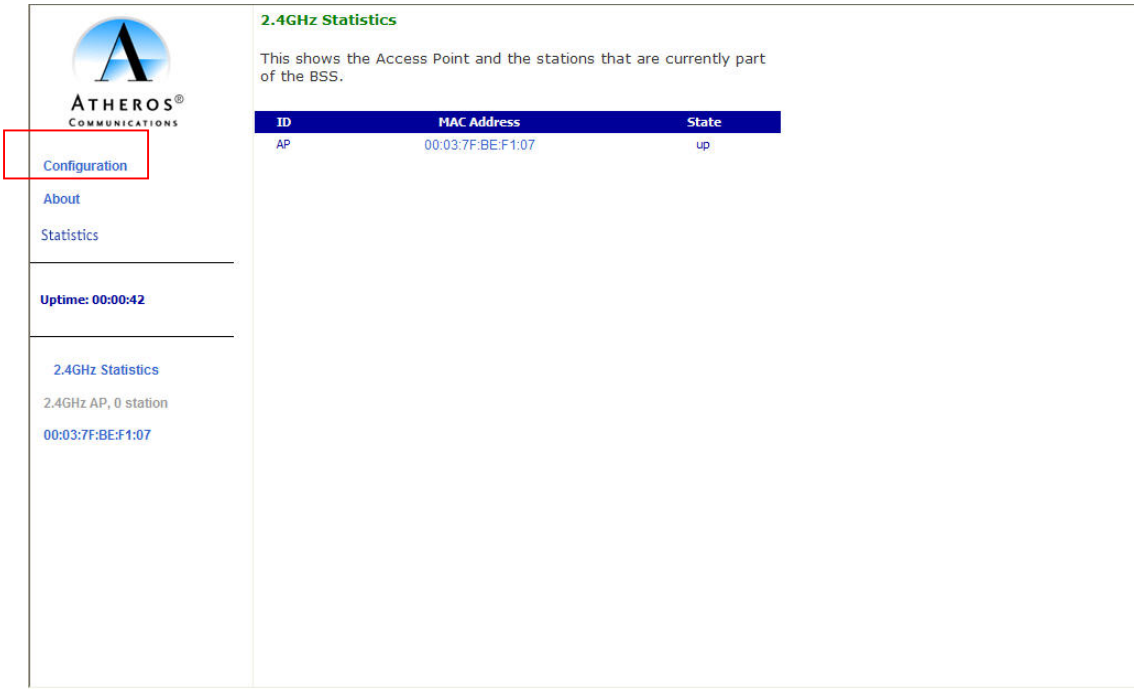
2. Enter the factory default ***User name*** and ***Password*** fields:
   User Name: **Admin**
   Password: **5up**
   then click **OK** button.
3. You will enter the Utility homepage.

Wireless Configuration - AP Mode

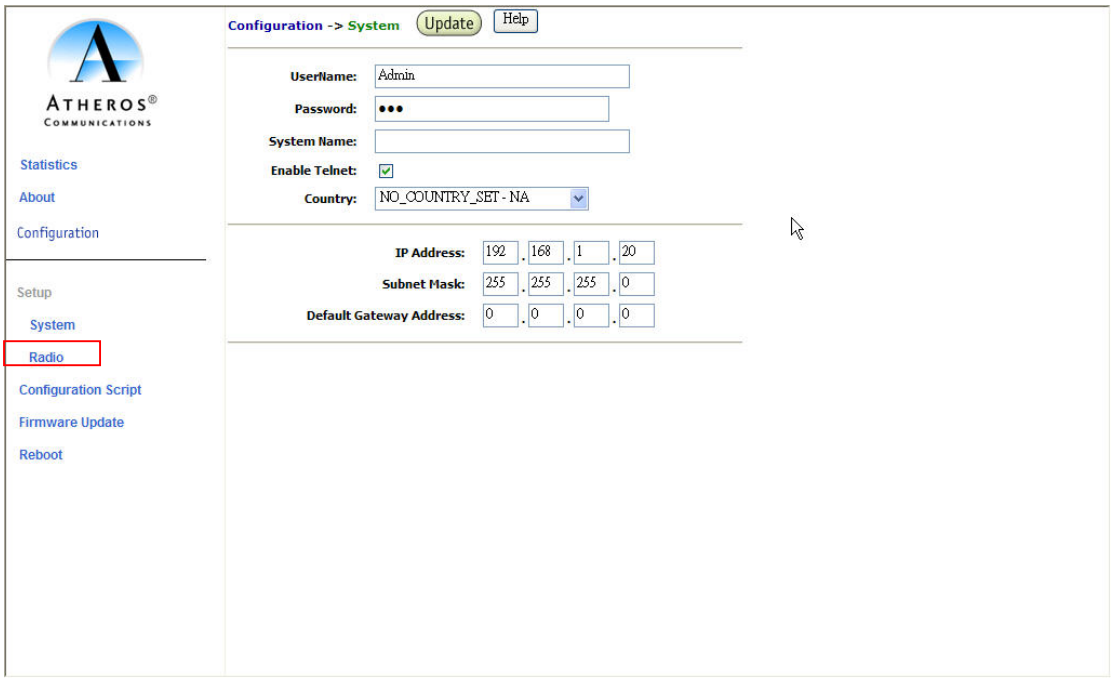
After login Web UI, you can click "**Access Point Web Server**" to get into main configuration page.



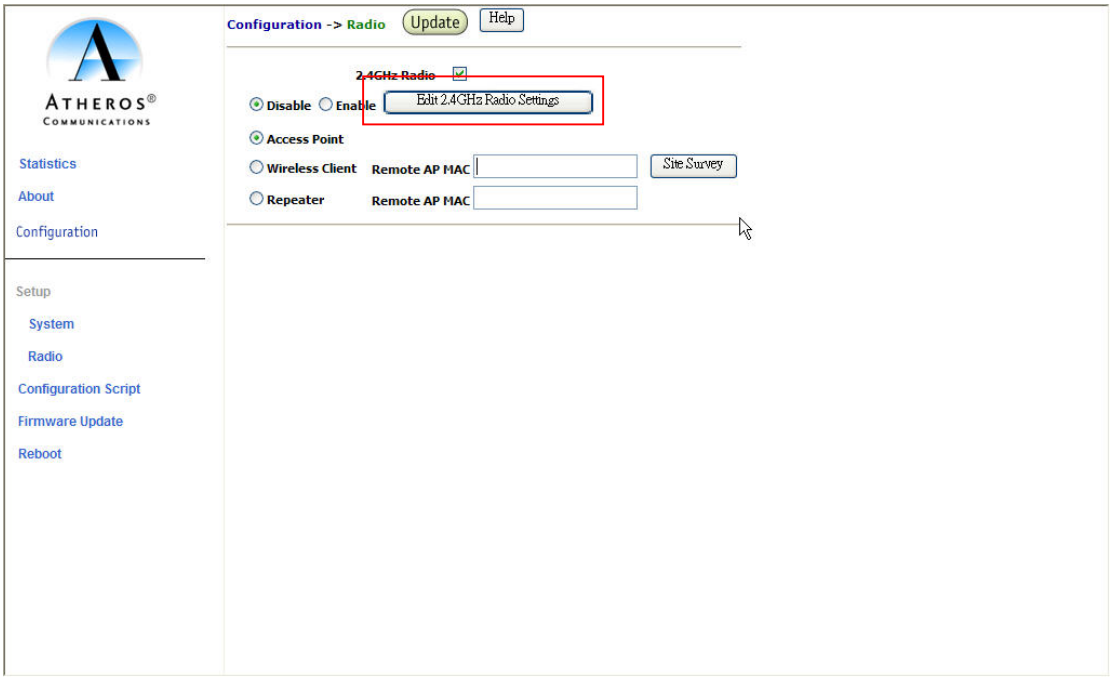
Main page will show 2.4GHz statistics automatically, you may click "**Configuration**" to modify system setting.



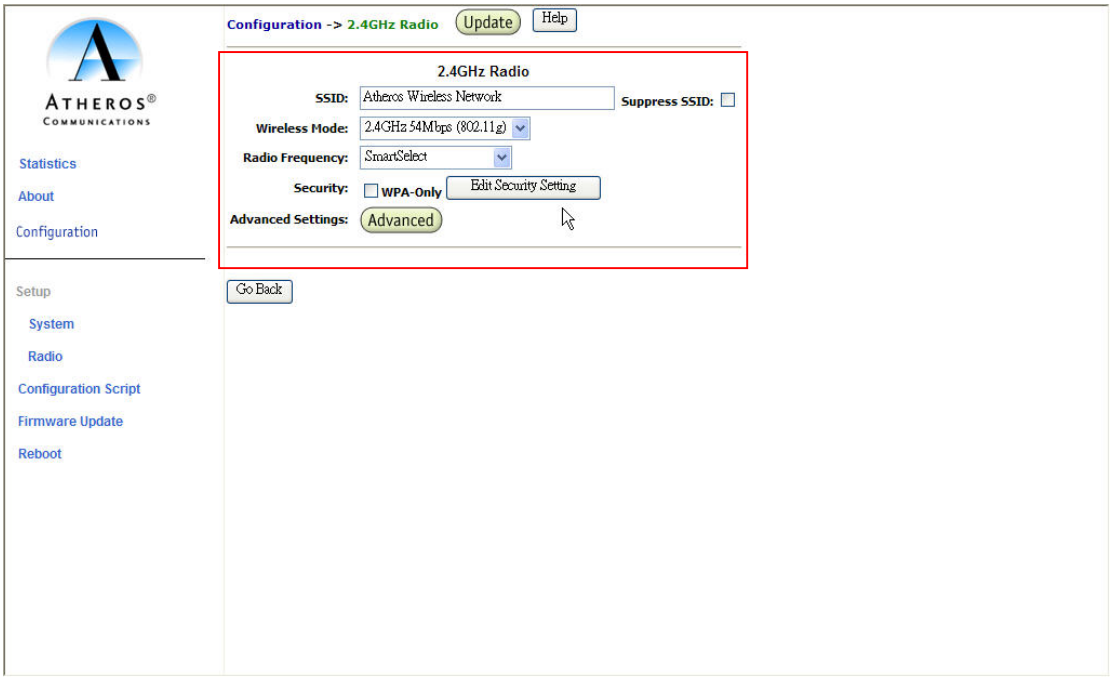
Now you entered system configuration page, you can modify system default IP address right here. Please click “**Radio**” to modify wireless settings.



WP310 default works in Access Point mode. You can change detail wireless parameters by clicking “**Edit 2.4GHz Radio Settings**”



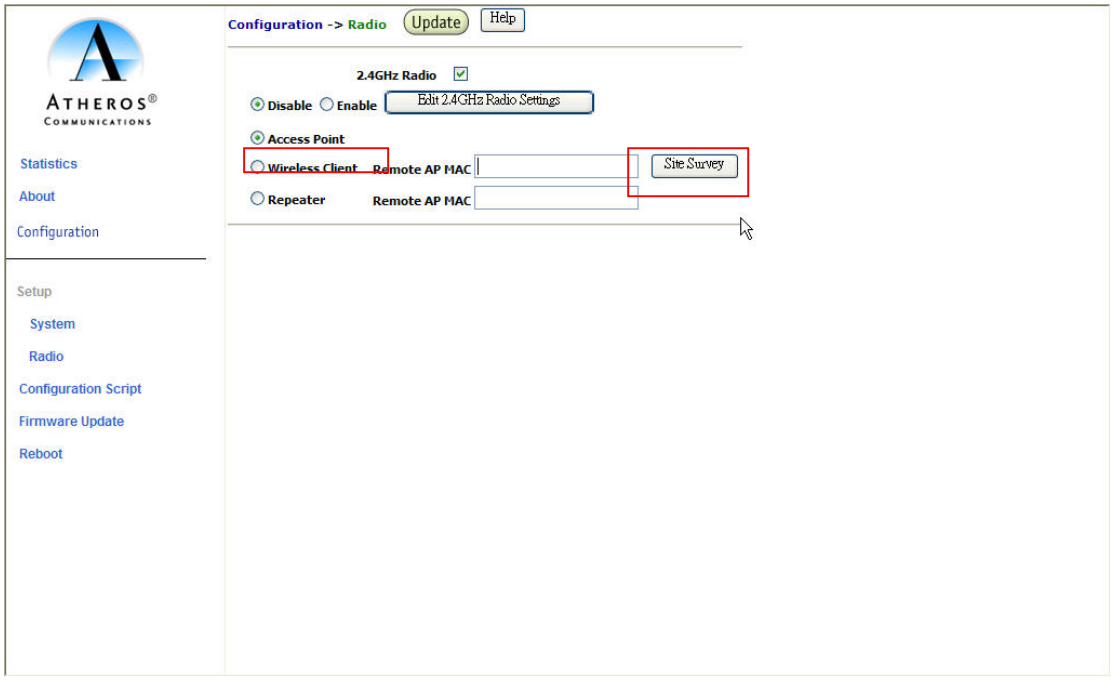
System default SSID is “**Atheros_Wireless_Network**”. You can modify **SSID** / **Wireless Mode** / **Radio Frequency** at this page



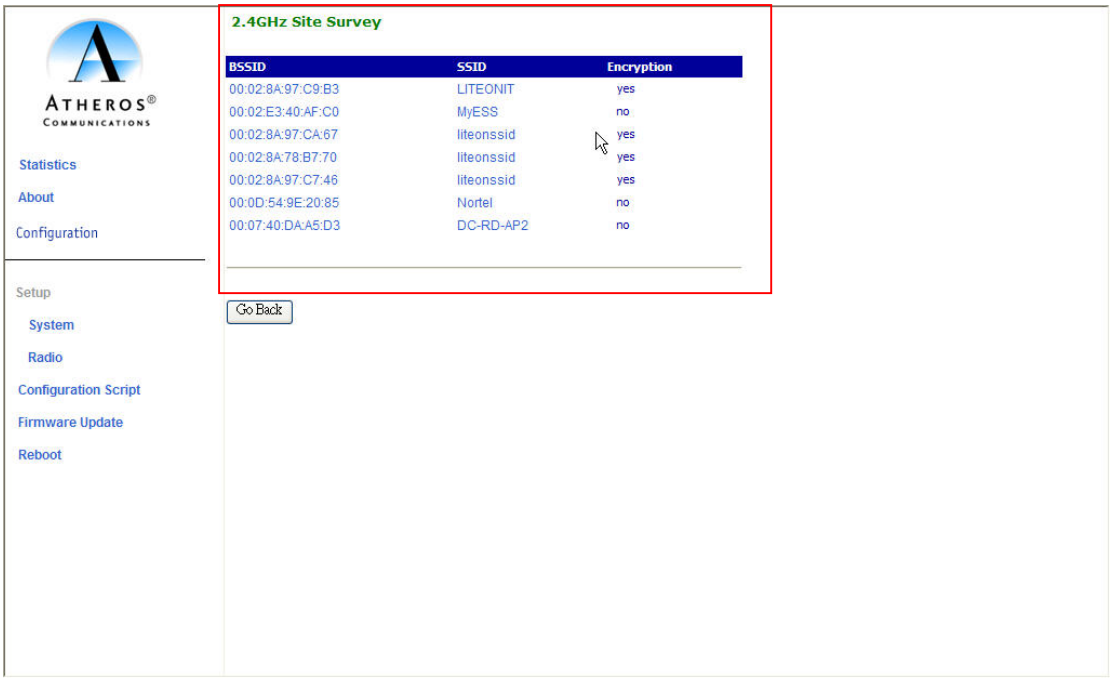
Here is an example that we change SSID to "**MyESS**" and click "Update". Then the page will show a "**Reboot AP**" bottom. You will need to click "**Reboot AP**" bottom and have the AP reboot to make the new setting start to function.

Wireless Configuration – Ethernet Bridge Mode

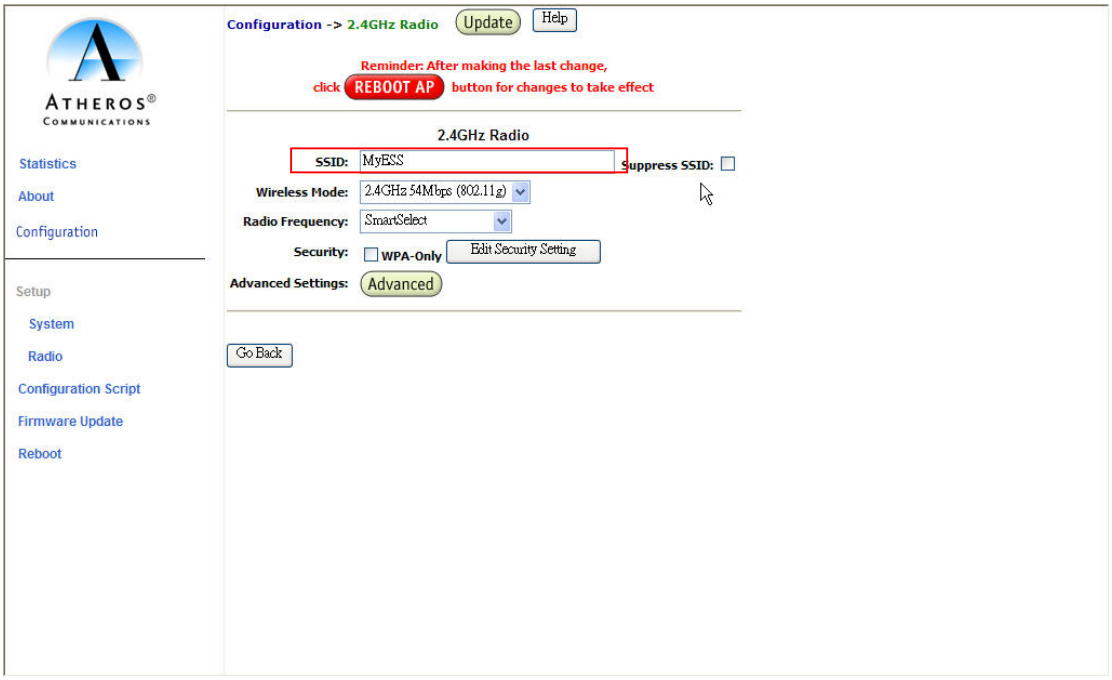
WP310A can also work as an Ethernet client bridge to connect Ethernet device into wireless network. In order to setup the AP to work in Ethernet bridge mode, you need to choose "**Wireless Client**" mode and click "**Site Survey**" at Radio page.



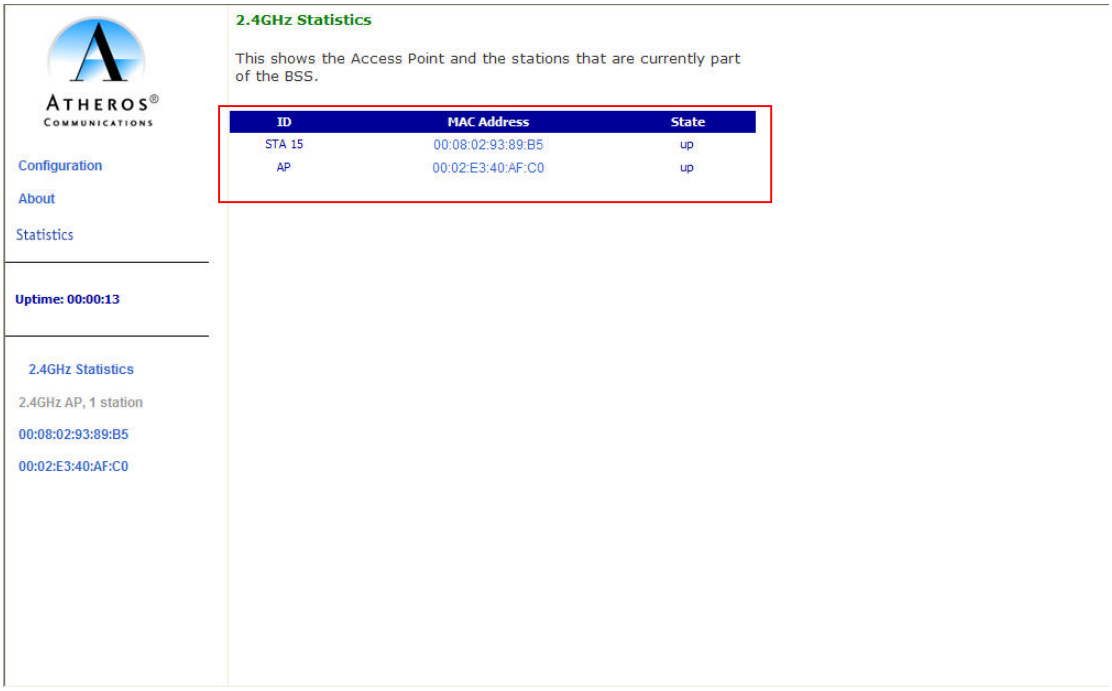
The Site Survey page can help you identify all the APs currently working in your environment. You will have to remember the SSID you are going to join.



After you determine which AP (SSID) to join, you need to go back to "**Edit 2.4GHz Radio Settings**" page. Key in "**SSID**" column with the value you get from site survey page and press "**Update**" bottom then reboot AP.



After the AP reboot, new Ethernet Bridge setting will in effective immediately. From the 2.4GHz Statistics page, you can find that the WP310A works as a client (STA) and associated to the AP you specified.


ATHEROS®
COMMUNICATIONS
Configuration
About
Statistics
Uptime: 00:00:13
2.4GHz Statistics
2.4GHz AP, 1 station
00:08:02:93:89:B5
00:02:E3:40:AF:C0
2.4GHz Statistics
This shows the Access Point and the stations that are currently part of the BSS.
ID
MAC Address
State
STA 15
00:08:02:93:89:B5
up
AP
00:02:E3:40:AF:C0
up

FEDERAL COMMUNICATIONS COMMISSION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user‘s authority to operate the equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

Note:

This device and its antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.