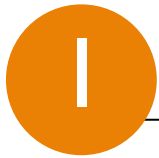




Quick Installation Guide

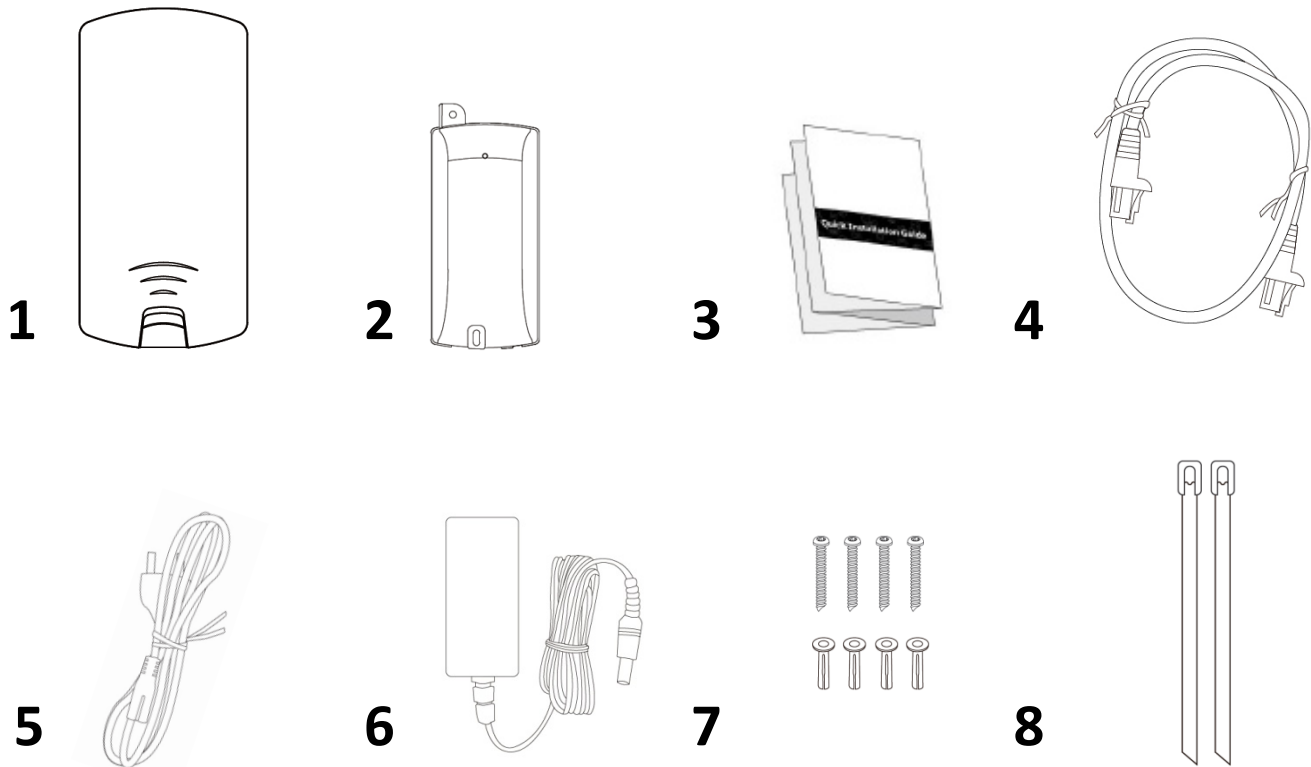
WAP-EN900R | AC900 Outdoor Access Point





Product Information

I-1. Package Contents



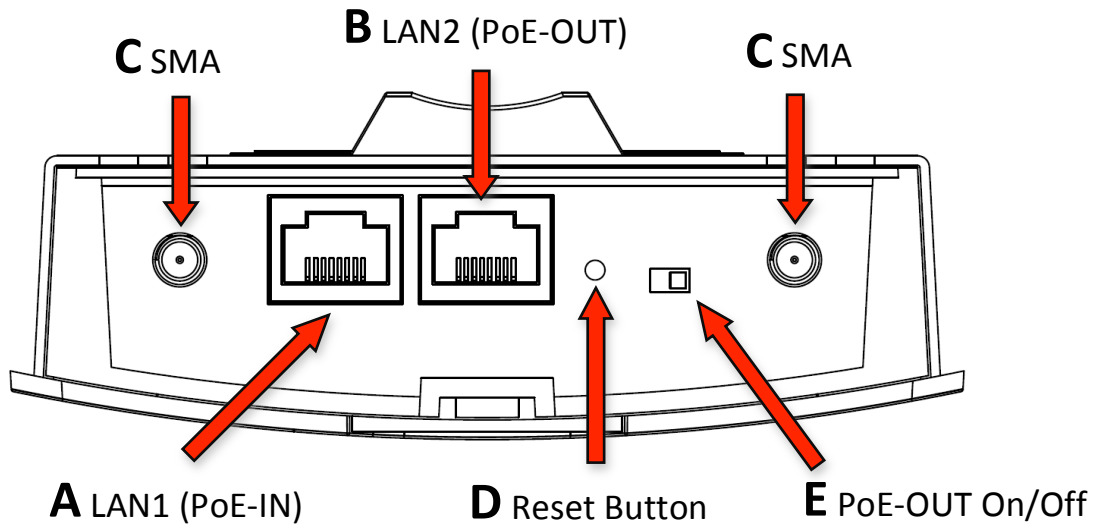
- 1.** Access Point
- 2.** Passive PoE Injector
- 3.** Quick Installation Guide
- 4.** Ethernet Cable

- 5.** Power Cord
- 6.** Power Adapter
- 7.** Wall Mount Screws Kits
- 8.** Pole Mount Ties

I-2. System Requirements

- Existing Ethernet cable, Passive PoE Injector
- Computer with web browser for access point configuration

I-3. Hardware Overview



- A.** LAN1 port with Power over Ethernet (Passive PoE-IN).
- B.** LAN2 port with Power over Ethernet (Passive PoE-OUT).
- C.** SMA connector for optional external antenna.
- D.** Reset Button.
- E.** Switch the LAN2 (Passive PoE-OUT) On/Off.
(Default: Off, Push Right)

I-4. LED Status

LED Behavior		
Power	Blue	The access point is on.
	Off	The access point is off.
LAN 1 & 2	Blue	LAN port is connected.
	Flashing	Activity (transferring and receiving)
	Off	LAN port is unconnected.
Wireless (Client mode only)	Blue	RSSI Signal Strength: Excellent: 4 LEDs bright Good: 3 LEDs bright Medium: 2 LEDs bright Bad: 1 LED bright
	Off	Wireless client mode disabled.

I-5. Reset

If you experience problems with your access point, you can reset the device back to its factory settings. This resets all settings back to default.

1. Press and hold the reset button on the access point for at least 10 seconds. Then release the button.



You may need to use a pencil or similar sharp object to push the reset button.

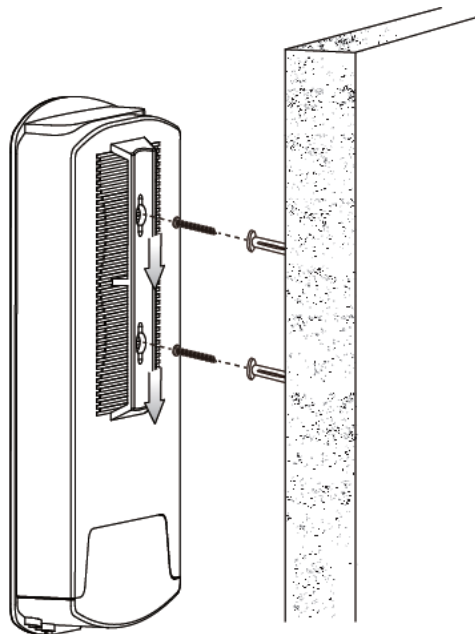
2. Wait for the access point to restart. The access point is ready for setup when the LED is **blue**.

I-6. Mounting

The access point includes a mount for wall or pole which requires some assembly.

Wall Mount

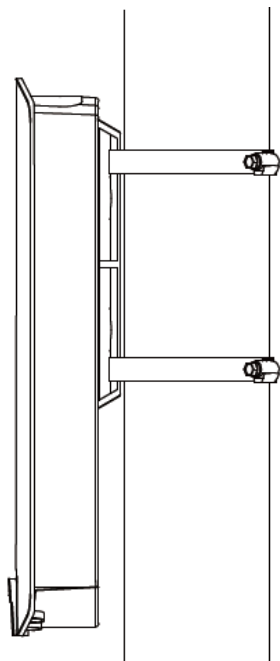
1. Attach the access point to a wall using the included screws and plugs.



Ensure your access point is securely attached to the wall mount bracket.

Pole Mount

1. Fix the access point to a pole using the included stainless tie.





Quick Setup

The AC900 Long Range 802.11ac Outdoor AP/CPE features a range of powerful functions:

- 802.11ac high-speed wireless technology
- 16 SSIDs for management
- SNMP v1/v2c/v3

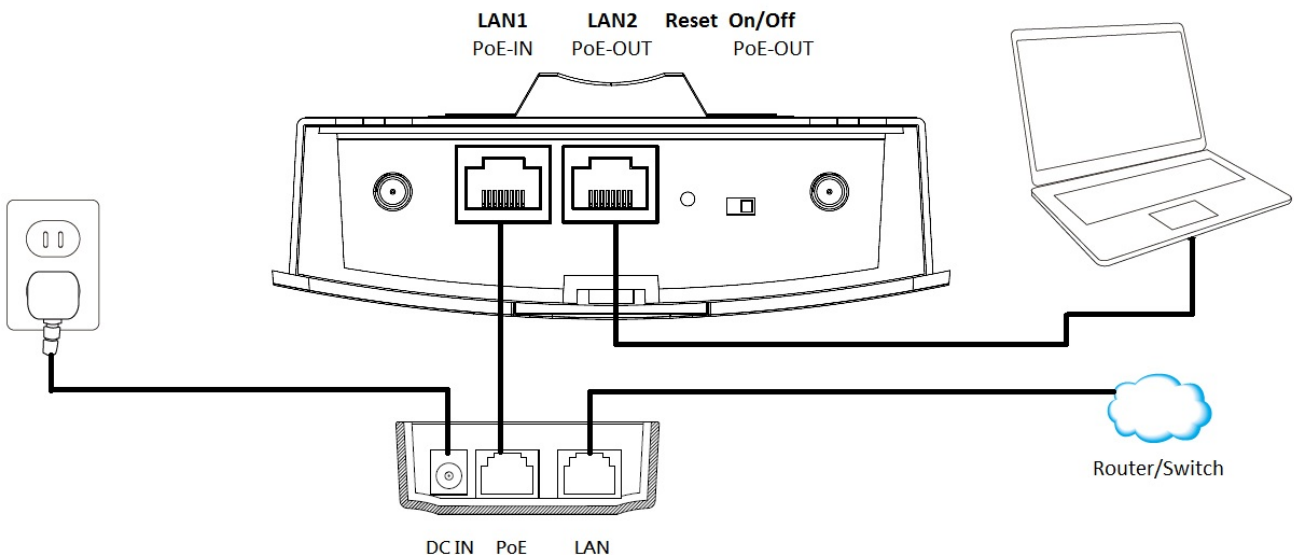
Your access point can be up and running in just a few minutes. It can function as a standalone access point (AP mode), as part of an AP array (Managed AP mode), or as a client bridge for WISP last-mile services (Client Bridge mode).

II-1. Initial Setup



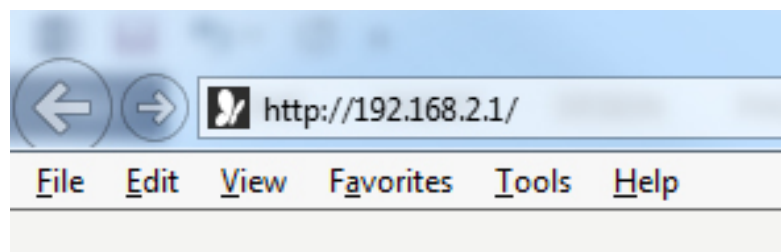
Do not connect a non-PoE device to the access point's LAN2 (PoE-OUT) port. The LAN2 port outputs 48V and can damage a non PoE device.

1. Connect the access point's LAN1 (PoE-IN) port to the PoE injector's PoE port via Ethernet cable.
2. Connect the PoE injector to a power source using the included power adapter. Wait a moment for the access point to start up. The access point is ready when the Power LED is **blue**.
3. Use an Ethernet cable to connect the PoE injector's LAN port to your network: router or switch. If it's more convenient for initial setup, you can connect a computer directly to the access point's LAN2 port instead.

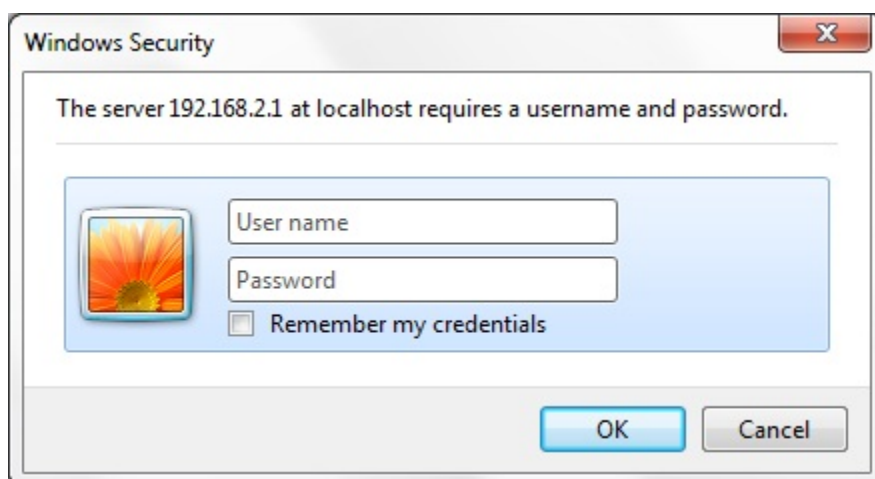


II-2. AP Mode

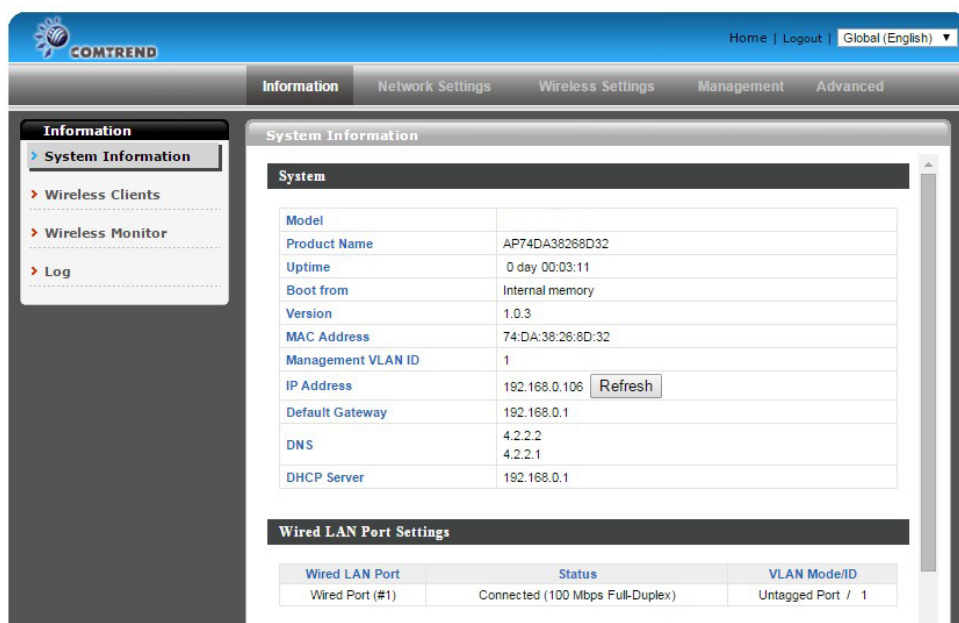
1. Enter the access point's IP address into the URL bar of a web browser. The default IP is **192.168.2.1**. If the AP is connected to a DHCP server, ensure you use the correct address.



2. You will be prompted for a user name and password. Enter the default username "admin" and the default password "1234".



3. You will arrive at the "System Information" screen shown below.



The next steps will help you to configure the following basic settings of the access point:

- **LAN IP Address**
- **5GHz SSID & Security**
- **Administrator Name & Password**
- **Time & Date**



It is recommended you configure these settings before using the access point.

1. To change the access point's LAN IP address, go to “**Network Settings**” > “**LAN-side IP Address**” and you will see the screen below.

LAN-side IP Address	
IP Address Assignment	DHCP Client ▼
IP Address	192.168.2.2
Subnet Mask	255.255.255.0
Default Gateway	From DHCP ▼ <input type="text"/>
Primary DNS Address	From DHCP ▼ <input type="text" value="0.0.0.0"/>
Secondary DNS Address	From DHCP ▼ <input type="text" value="0.0.0.0"/>

2. Enter the IP address settings you wish to use for your access point. You can use a dynamic (DHCP) or static IP address, depending on your network environment. Click “Apply” to save the changes and wait a few moments for the access point to reload.



When you change your access point's IP address, you need to use the new IP address to access the browser based configuration interface instead of the default IP 192.168.2.1

3. To change the SSID of your access point's 5GHz wireless network(s), go to **“Wireless Settings” > “5GHz 11ac” > “Basic”**. Enter the new SSID for your 5GHz wireless network in the “SSID1” field and click “Apply”.



To utilize multiple 5GHz SSIDs, open the drop down menu labelled “Enable SSID number” and select how many SSIDs you require. Then enter a new SSID in the corresponding numbered fields below, before clicking “Apply”.

5GHz Basic Settings	
Wireless	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Band	11a/n/ac ▼
Enable SSID number	1 ▼
SSID1	OAP900-858A17 VLAN ID 1
Auto Channel	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Auto Channel Range	Band 3 ▼
Auto Channel Interval	One day ▼ <input type="checkbox"/> Change channel even if clients are connected
Channel Bandwidth	Auto 80/40/20 MHz ▼
BSS BasicRateSet	6,12,24 Mbps ▼

4. To configure the security of your access point's 5GHz wireless network(s), go to **"Wireless Settings" > "5GHz 11ac 11an" > "Security"**. Select an "Authentication Method" and enter a "Pre-shared Key" or "Encryption Key" depending on your choice, then click "Apply".



If using multiple SSIDs, specify which SSID to configure using the "SSID" drop down menu.

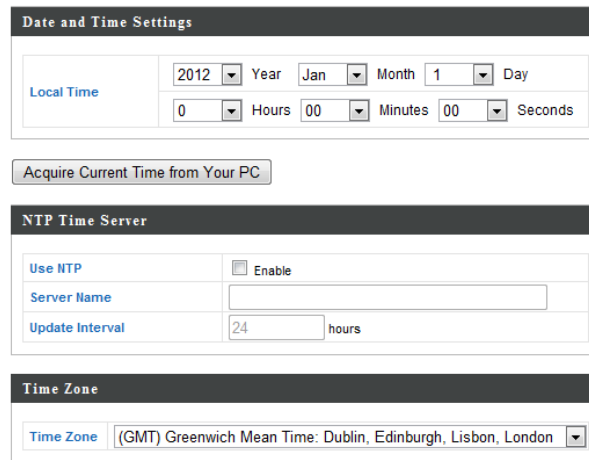
5GHz Wireless Security Settings	
SSID	OAP900-858A17 ▼
Broadcast SSID	Enable ▼
Wireless Client Isolation	Disable ▼
Load Balancing	100 /100
Authentication Method	No Authentication ▼
Additional Authentication	No additional authentication ▼

5. To change the administrator name and password for the browser based configuration interface, go to **"Management" > "Admin"**.

Account to Manage This Device	
Administrator Name	admin
Administrator Password	••••• (4-32 Characters)
	••••• (Confirm)
<input type="button" value="Apply"/>	

6. Complete the "Administrator Name" and "Administrator Password" fields and click "Apply".

7. To set the correct time for your access point, go to **“Management” > “Date and Time Settings”**.



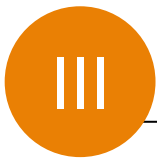
The screenshot shows the 'Date and Time Settings' web interface. It is divided into three main sections: 'Local Time', 'NTP Time Server', and 'Time Zone'. The 'Local Time' section has dropdown menus for Year (2012), Month (Jan), Day (1), Hours (0), Minutes (00), and Seconds (00). Below this is a button labeled 'Acquire Current Time from Your PC'. The 'NTP Time Server' section has a 'Use NTP' checkbox (unchecked), an 'Enable' checkbox (checked), a 'Server Name' text input field, and an 'Update Interval' dropdown menu set to '24' hours. The 'Time Zone' section has a 'Time Zone' dropdown menu currently set to '(GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London'.

8. Set the correct time and time zone for your access point using the drop down menus. The access point also supports NTP (Network Time Protocol) so alternatively you can enter the host name or IP address of a time server. Click “Apply” when you are finished.



You can use the “Acquire Current Time from your PC” button if you wish to set the access point to the same time as your PC.

9. The basic settings of your access point are now configured.



Browser Based Configuration Interface

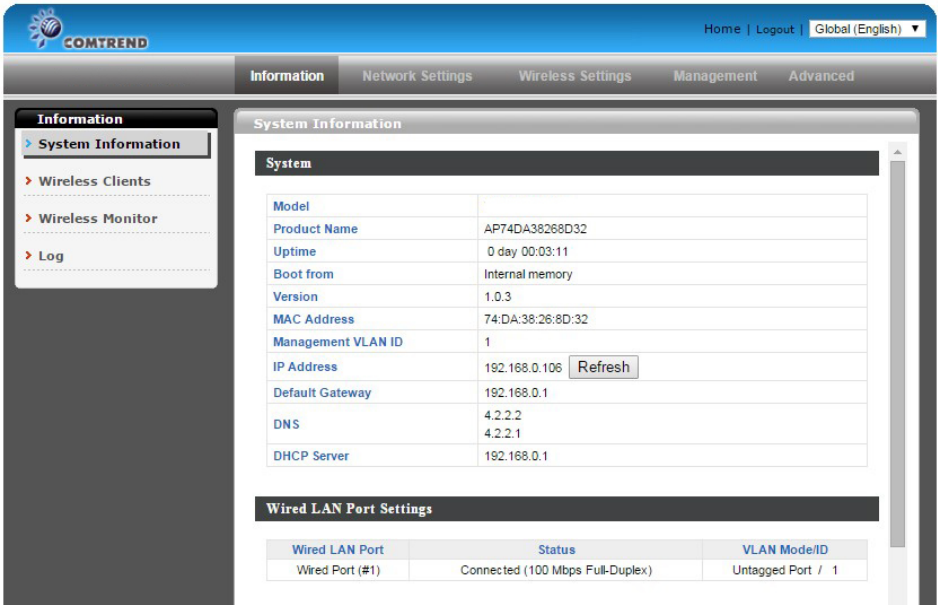
The browser-based configuration interface enables you to configure the access point's advanced features. The access point features a range of advanced functions such as MAC filtering, MAC RADIUS authentication, VLAN configurations, up to 16 SSIDs and many more. To access the browser based configuration interface:

1. Connect a computer to your access point using an Ethernet cable.
2. Enter your access point's IP address in the URL bar of a web browser. The access point's default IP address is **192.168.2.1(Default IP address applies if No DHCP Server is detected)**.
3. You will be prompted for a username and password. The default username is "admin" and the default password is "1234", though it was recommended that you change the password during setup.

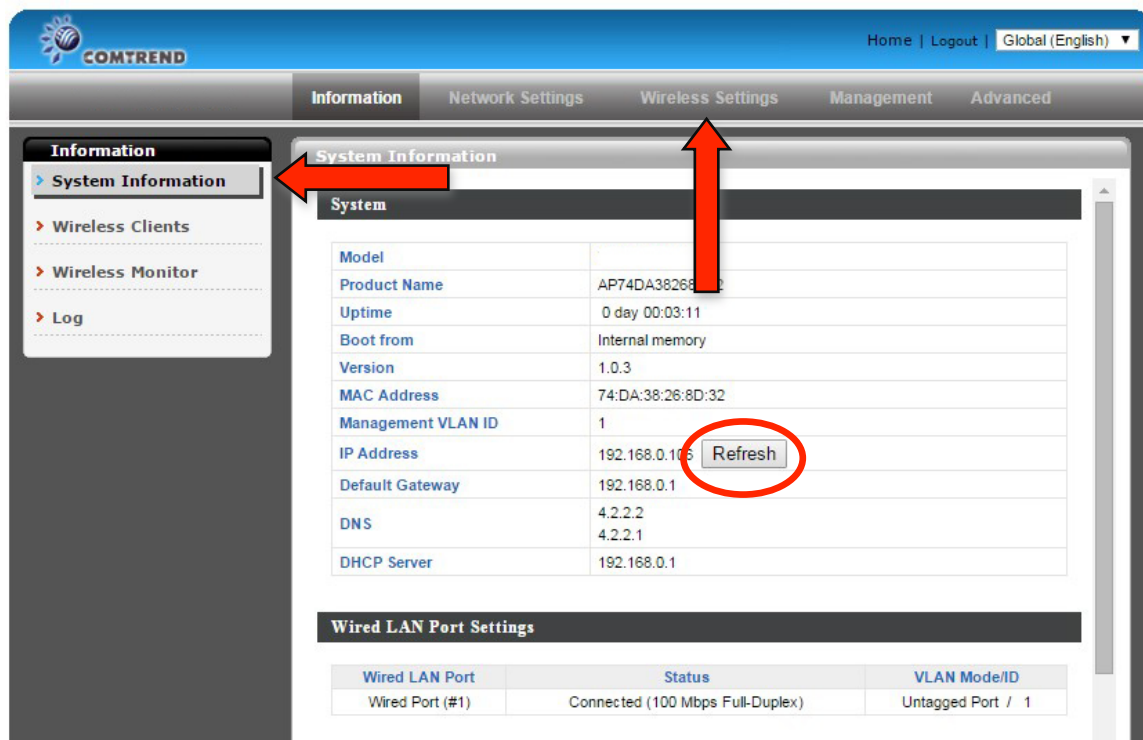


If you cannot remember your password, reset the access point back to its factory default settings. Refer to I-5. Reset

4. You will arrive at the "System Information" screen shown below.



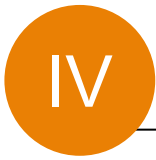
5. Use the menu across the top and down the left side to navigate.



6. Click "Apply" to save changes and reload the access point, or "Cancel" to cancel changes.



Wait a few seconds for the access point to reload after you "Apply" changes.



Your Device is Now Connected!

FOR MORE HELP: For instructions on advanced features, FAQ, etc., please visit our online Product Webpage.

For more information:

YouTube: <https://www.youtube.com/user/ComtrendConnection>

Facebook: <https://facebook.com/Comtrend>

Website: <http://us.comtrend.com/>

Support: Visit our website or call 1-877-COMTREND (1-877-266-8736)

