

User Manual



EnStationAC
version 1.0

AC866 5GHz Ultra Long-Range Wireless Outdoor Customer
Premises Equipment

IMPORTANT

To install this Access Point please refer to the **Quick Installation Guide** included in the product packaging.

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Chapter 1

Product Overview



Introduction

Key Features

- Up to 26 dBm transmit power enabling long range connectivity
- Supports IEEE802.11ac/a/n wireless standards with up to 866 Mbps data rate.
- Internal 19dBi high gain directional antenna
- Can be used with included PoE adapter or via 802.3at PoE 802.3at - capable switches.
- Can be supply 802.3af power source used with included PoE adapter power adapter or via 802.3at PoE - capable switches
- Secured Guest Network option available
- Advanced 256-QAM technology to achieve optimal performance throughout ultra-long distance



Introduction

The EnStationAC is a high-powered, ultra long-range 2x2 Wireless 802.11ac/a/n Outdoor Access Point with speeds up to 866 Mbps on both its high-powered 5 GHz radios. It can be configured as an: Access Point, Client Bridge or WDS (AP, Station & Bridge). The EnStationAC is designed to operate in a variety of outdoor environments. Its high-powered, long-range characteristics make it a cost effective alternative to ordinary Access Points that don't have the range and reach to connect to a growing number of wireless CPEs who

wish to connect to a business network. The EnStationAC supports the 5 GHz frequency band for communicating to other 5GHz frequency bands Access Points concurrently. Several EnStationACs can be networked in a campus setting using the 5 GHz band between countries. The EnStationAC is easy to install in virtually any location with

Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range may vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment, and mix of devices in the network. Features and specifications subject to change without notice. Trademarks and registered trademarks are the property of their respective owners. For United States of America: Copyright © 2015 EnGenius Technologies, Inc. All rights reserved.

its included PoE (Power over Ethernet) Adapter for quick outdoor installation. The EnStationAC enables network administrators to control its transmit power and features settings for selecting VHT80 bandwidth to perform true AC transmission. The EnStationAC also supports wireless encryption including Wi-Fi Protected Access (WPA-PSK/WPA2-PSK) Encryption and IEEE 802.1X with RADIUS.)

System Requirements

The following are the Minimum System Requirements in order to configure the device.

- Computer with an Ethernet interface or wireless network capability
- Windows OS (XP, Vista, 7, 8), Mac OS, or Linux-based operating systems
- Web-Browsing Application (i.e.: Internet Explorer, Firefox, Safari, or another similar browser application)

Package Contents

The EnStationAC package contains the following items:*

- EnStationAC Customer Premises Equipment
- PoE Adapter (EPA5006GP)
- Pole Mount Strap
- Wall Mount Bracket Base
- Screw Sets Kit
- Rubber
- Sealing Nut
- Dynamic Stick
- Quick Installation Guide

*(all items must be in package to issue a refund):

Technical Specifications

Standard:

IEEE802.11ac/a/n on 5 GHz

IEEE802.3at

IEEE802.3af

Antenna

Internal 19dBi high gain directional antenna

Physical Interface

2 x 10/100/1000 Gigabit Ethernet Port with PoE support

LAN(PoE) Port supports IEEE802.3at PoE Input

LAN Port supports IEEE802.3af PoE Output

LED Indicator

Power

LAN 1

LAN 2

WLAN LED (Weak, Medium, Strong)

Power Requirements

Include PoE Adapter, 54V/0.6A

IEEE802.3at support

Operation Modes

Access Point

Client Bridge

WDS

WDS Detail

WDS AP

WDS Bridge

WDS Station

Optimal Performance

Distance Control (Ack Timeout)

Multicast Supported

Data Rate Selection

Auto Channel Selection

BSSID Support

Easily Management

VLAN Tag / VLAN Pass-through

Guest Network

QoS: Complaint with IEEE 802.11e /WMM

RADIUS Accounting

Wireless STA (Client) connection list

Traffic Shaping (Per SSID)

Intuitive Tools

SNMP v1/v2c/v3 support

MIB I/II, Private MIB

Save Configuration as Default

CLI Support

WiFi-Scheduler/Auto Reboot

E-mail Alert

Reinforcement Security

WEP Encryption-64/128/152 bit

WPA/WPA2 Enterprise (WPA-EAP using TKIP or AES)

Hide SSID in beacons

MAC address filtering up to 32 MACs per SSID

Https Support
SSH

QoS (Quality of Service)

Compliant with IEEE 802.11e standard

Physical/Environment Conditions

Operating:

Temperature: -4 °F to 158 °F (-20 °C to 70 °C)

Humidity (non-condensing): 90% or less

Storage:

Temperature: -22 °F to 176 °F (-30 °C to 80 °C)

Humidity (non-condensing): 90% or less

Physical Interface

Dimensions and Weights

Dimension: 190mm (7.48")

Height: 38mm (1.9")

Weight: 527g (1.16 lbs)



1 WLAN Signal LED: Applied on Client Bridge/WDS

(1) Red: Weak Signal: Connecting quality is bad.

(2) Yellow: Connecting quality is Normal.

(3) Green: Connection quality is Good.

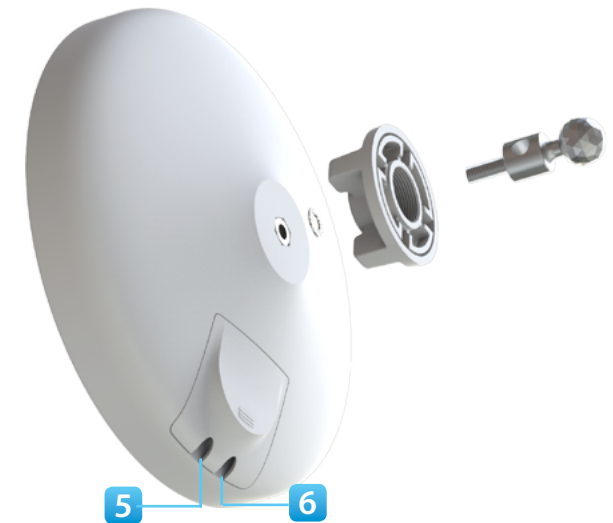
2 LAN(PoE) Signal LED

3 LAN Signal LED of the 2nd Port

4 Power Signal:

5 LAN Port 1 (802.3at PoE Input): Gigabit Ethernet port for RJ-45 cable.

6 LAN Port 2(802.3af PSE Output): Gigabit Ethernet port for RJ-45 cable.



Chapter 2

Before You Begin



Computer Settings

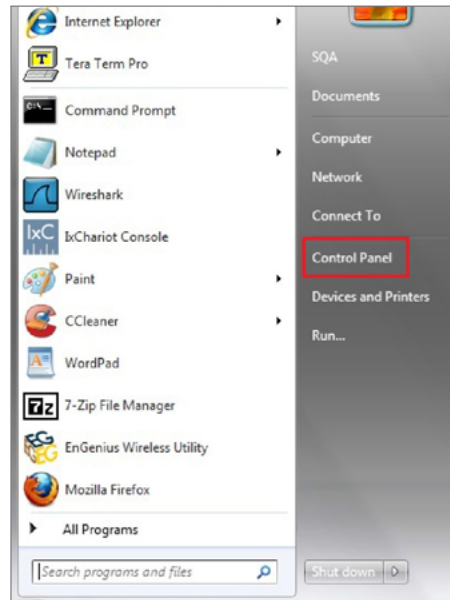
Windows XP/Windows 7/Windows 8

In order to use the EnStationAC, you must first configure the TCP/IPv4 connection of your Windows OS computer system.

1a. Click the **Start** button and open the **Control Panel**

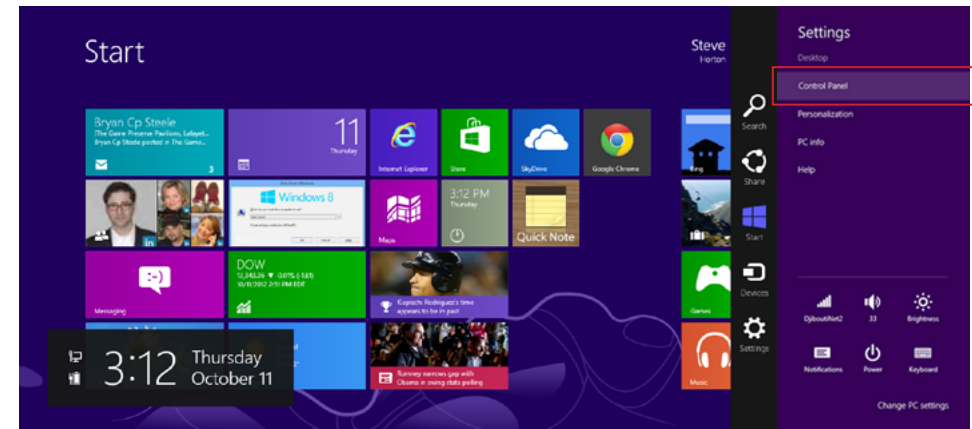


Windows XP



Windows 7

1b. Move your mouse to the lower right hot corner to display the Charms Bar and select the **Control Panel** in Windows 8 OS.



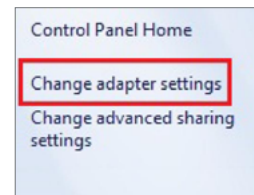
2a. In Windows XP, click **Network Connections**.



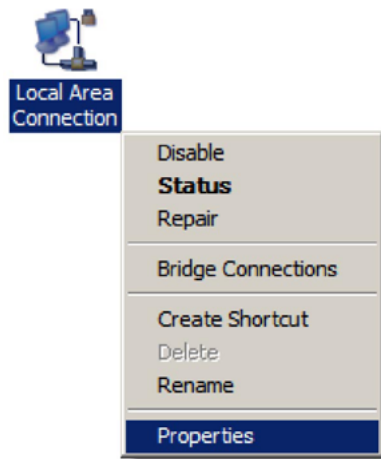
2b. In Windows 7/Windows 8, click **View Network Status and Tasks** in the **Network and Internet** section, then select **Change adapter settings**.



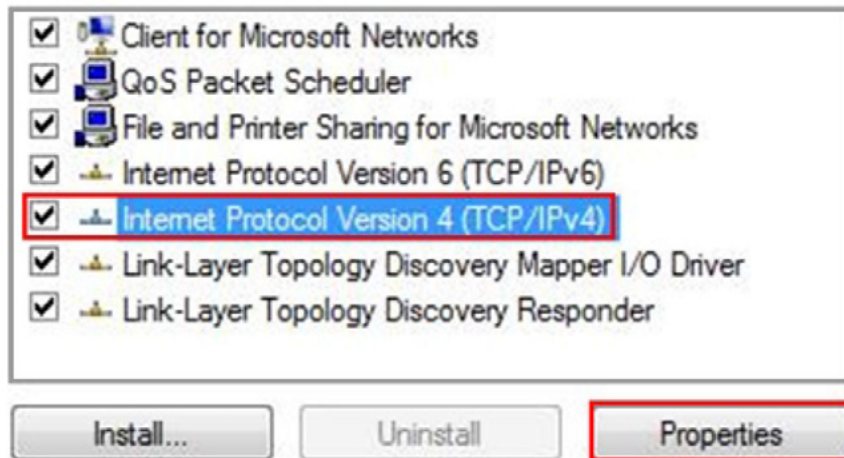
Network and Internet
View network status and tasks
Choose homegroup and sharing options



3. Rightclick on **Local Area Connection** and select **Properties**.



4. Select **Internet Protocol Version 4 (TCP/IPv4)** and then select **Properties**.



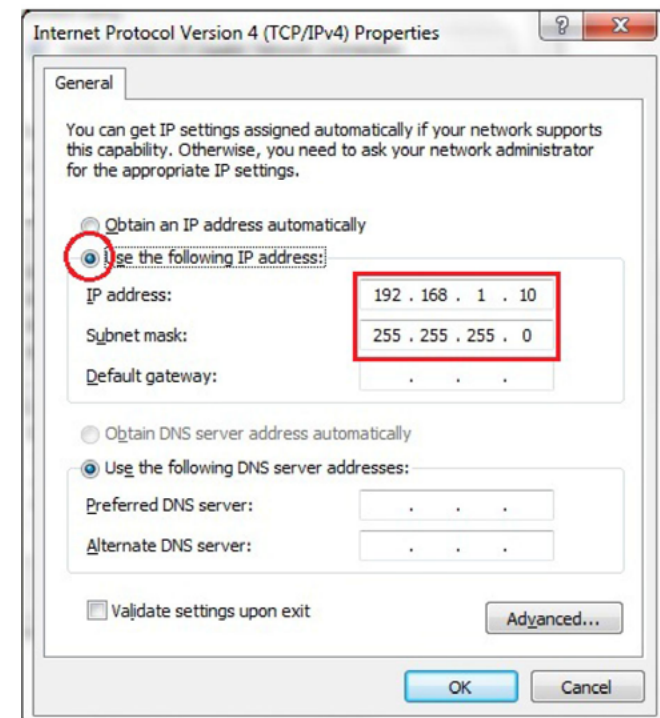
5. Select **Use the following IP address** and enter an IP address that is different from the EnStationACand Subnet mask, then click **OK**.

Note: Ensure that the IP address and Subnet mask are on the same subnet as the device.

For example: EnStationAC IP address: 192.168.1.1

PC IP address: 192.168.1.2 - 192.168.1.255

PC Subnet mask: 255.255.255.0



Apple Mac OS X

1. Go to **System Preferences** (Which can be opened in the Applications folder or selecting it in the Apple Menu).
2. Select **Network** in the **Internet & Network** section.



3. Highlight **Ethernet**.

4. In **Configure IPv4**, select **Manually**.
5. Enter an IP address that is different from the EnStationAC and Subnet mask then press **OK**.

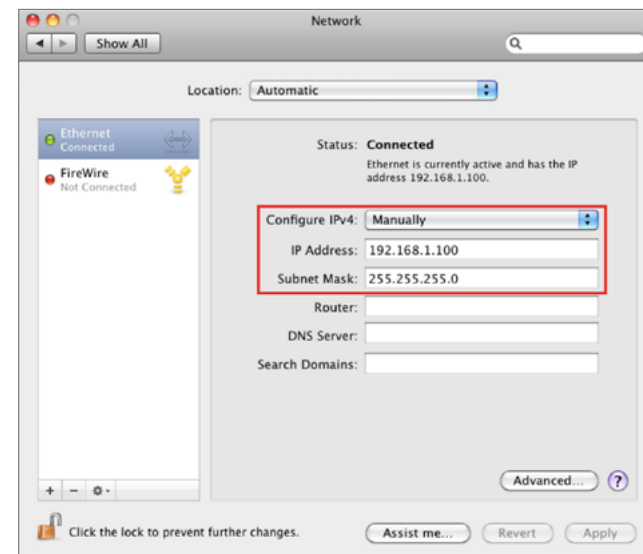
Note: Ensure that the IP address and Subnet mask are on the same subnet as the device.

For example: EnStationAC IP address: 192.168.1.1

PC IP address: 192.168.1.2 - 192.168.1.255

PC Subnet mask: 255.255.255.0

6. Click **Apply** when done.



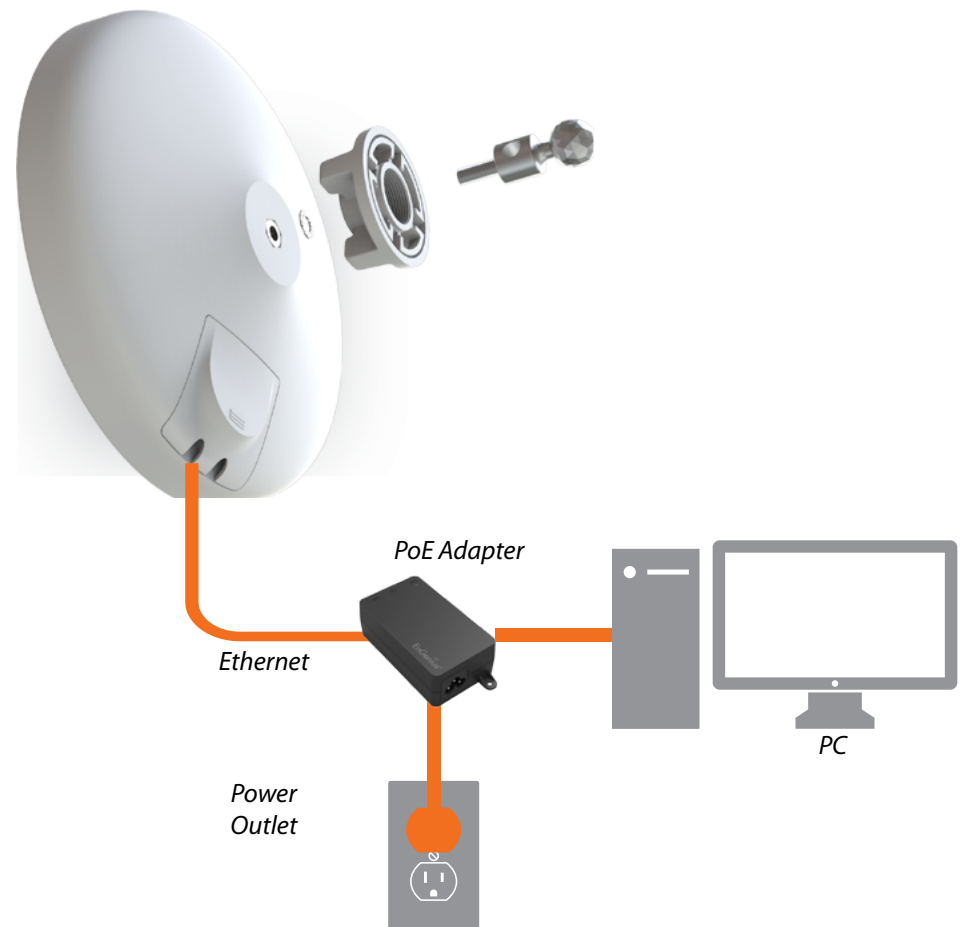
Hardware Installation

1. Remove the rear bottom panel.
2. Connect one end of the Ethernet cable into the main LAN port (PoE) of the Access Point and the other end to the AP Ethernet port on the PoE Adapter.
3. Connect the Power cord to the **PoE Adapter** and plug the other end in to an electrical outlet.
4. Connect the second Ethernet cable into the **LAN port** of the PoE Adapter and the other end to the Ethernet port on the computer.
5. Place the panel back into device

Note: The EnStationAC should ONLY be powered via Ethernet cable connected to included supports both IEEE 802.3at PoE (Power over Ethernet) or the included PoE Adapter. You may use either one as the power source. **Do NOT use both at the same time.**

Note: The EnStationAC can supply the 802.3af power source when used with included PoE Adapter.

.This diagram depicts the hardware configuration.

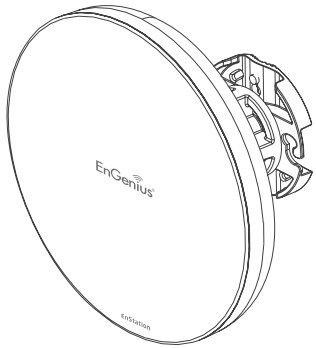


To attach the EnStationAC to a pole using the provided pole mounting kit:

Mounting the EnStationAC

Using the provided hardware, the EnStationAC can be attached to a wall or a pole.

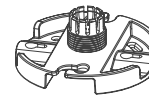
1. EnStation



2. PoE Adapter & Power Cord



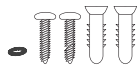
3. Bracket



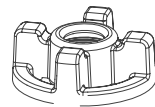
4. Pole Mounting Strap



5. Screw Set Kit



6. Sealing Nut



7. Dynamic Stick

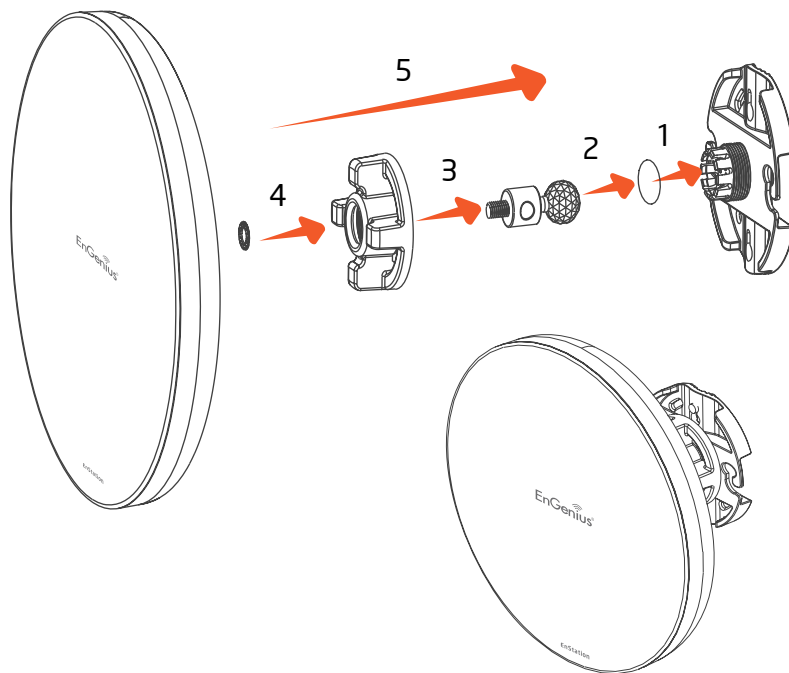


8. Rubber

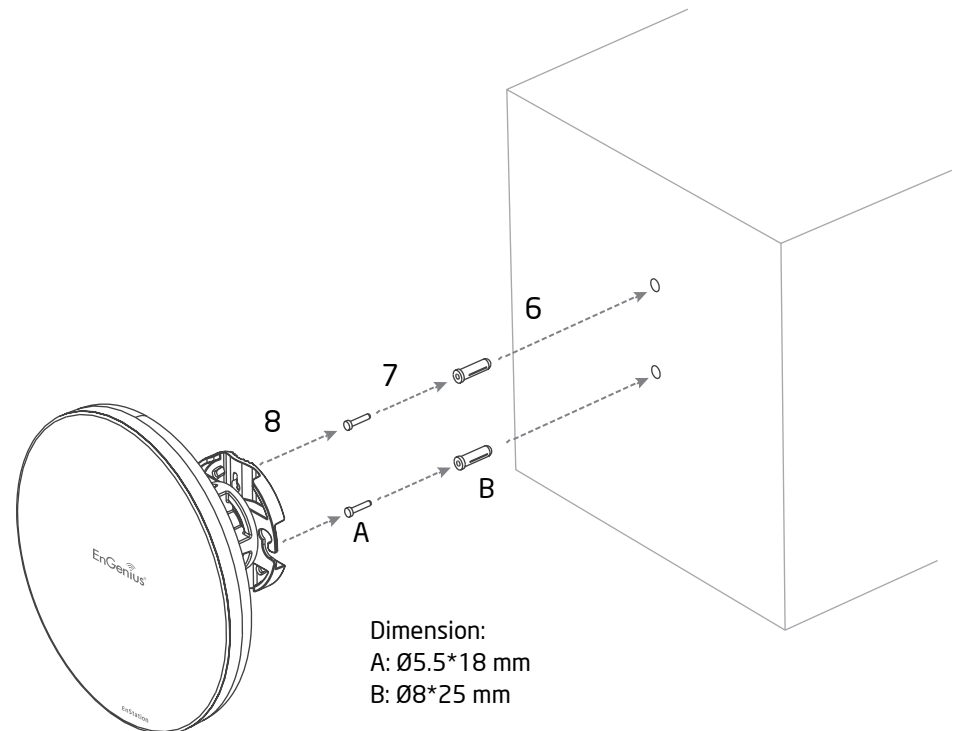


Wall mounting the EnStation

1. Put the included rubber into the bracket.
2. Plug the dynamic stick into the bracket.
3. Screw the sealing nut and assembled parts, as well as tighten it.
4. Put the nock washer on the dynamic stick.
5. Assemble the mounting parts to the EnStation.

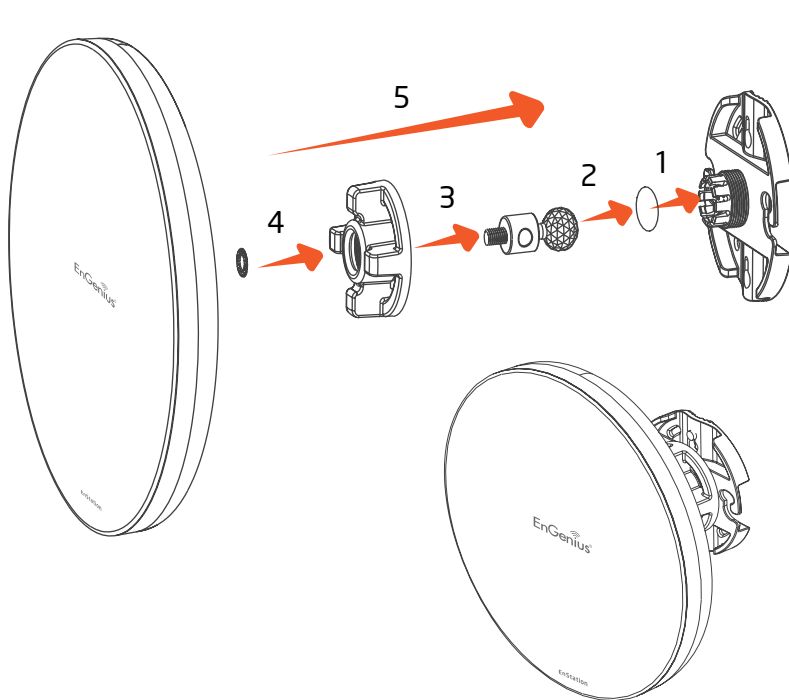


6. Determine the mounting location. Mark and drill two pilot holes aligning to the screw holes of the bracket.
7. Put wall anchors into the holes and insert screw into the wall anchor.
8. Screw and secure the bracket in the place.

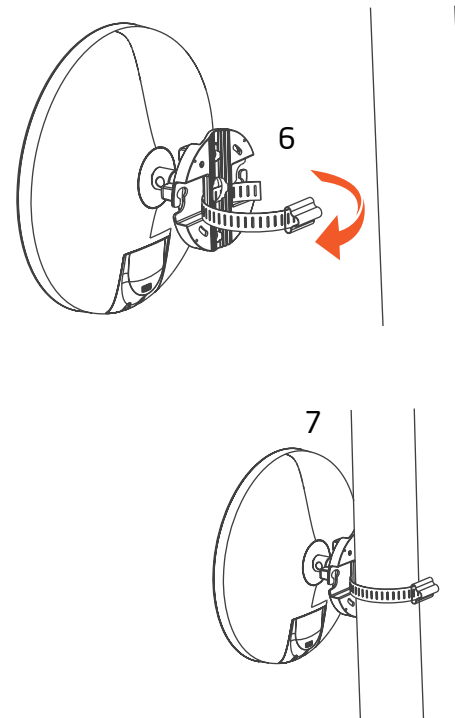


Pole mounting the EnStation

1. Put the included rubber into the bracket.
2. Plug the dynamic stick into the bracket.
3. Screw the sealing nut and assembled parts, as well as tighten it.
4. Put the nock washer on the dynamic stick.
5. Assemble the mounting parts to the EnStation.



6. Thread the open end of the pole strap through the two tabs on the bracket.
7. Lock and tighten pole strap to secure bracket to the pole.



Chapter 3

Configuring Your Access Point



Configuring Your Access Point

This section will show you how to configure the device using the web-based configuration interface.

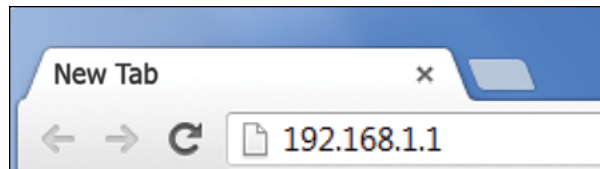
Default Settings

Please use your Ethernet port or wireless network adapter to connect the Access Point.

IP Address	192.168.1.1
Username / Password	admin / admin

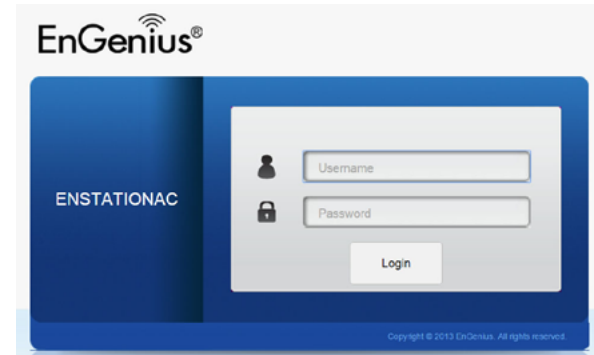
Web Configuration

1. Open a web browser (Internet Explorer/Firefox/Safari/Chrome) and enter the IP Address **http://192.168.1.1**



Note: If you have changed the default LAN IP Address of the Access Point, ensure you enter the correct IP Address.

2. The default username and password are **admin**. Once you have entered the correct username and password, click the **Login** button to open the web-base configuration page.



3. If successful, you will be logged in and see the EnStationAC User Interface.

Overview	Device Information	
Device Status	Device Name	ENSTATIONAC
Connections	MAC Address	
Network	- LAN	88.DC.96.3A.9A.DB
Basic	- Wireless LAN - 5GHz	88.DC.96.3A.9A.DB
Wireless	Country	USA
Management	Current Local Time	Wed Aug 5 07:40:15 UTC 2015
Advanced	Firmware Version	2.0.0
Time Zone	Management VLAN ID	Untagged
WiFi Scheduler	LAN Information - IPv4	
Tools	IP Address	192.168.1.1
System Manager	Subnet Mask	255.255.255.0
Account	Gateway	192.168.1.1
Firmware	Primary DNS	0.0.0.0
Log	Secondary DNS	0.0.0.0
English	DHCP Client	Disable
	Spanning Tree Protocol (STP)	Disable

Chapter 4

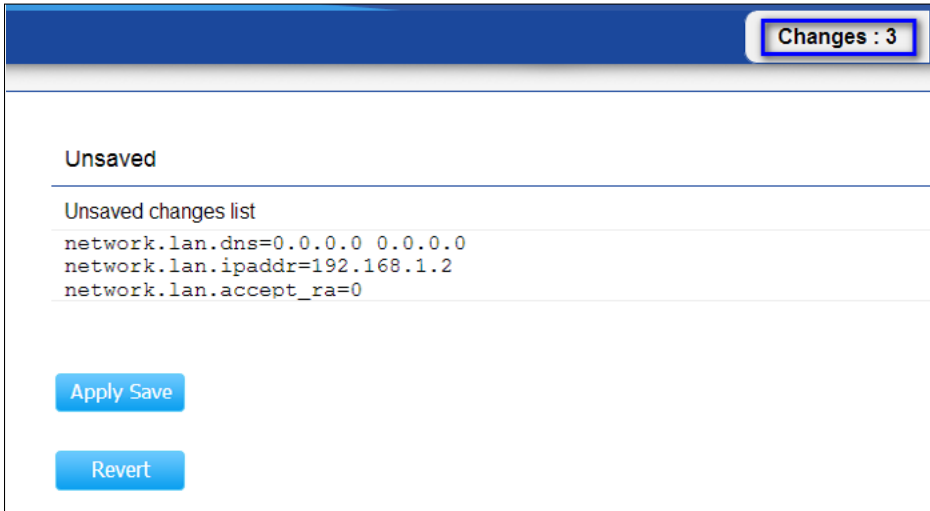
Status



Main Status

Save Changes

This page lets you save and apply the settings shown under **Unsaved changes list**, or cancel the unsaved changes and revert to the previous settings that were in effect.



Device Status

Clicking the **Device Status** link under the **Overview** menu shows the status information about the current operating mode.

- The **Device Information** section shows general system information such as Device Name, MAC Address, Current Time, Firmware Version, and Management VLAN ID

Note: VLAN ID information is only applicable in Access Point or WDS AP mode.

Device Information

Device Name	ENSTATIONAC
MAC Address	
- LAN	88:DC:96:3A:9A:DB
- Wireless LAN - 5GHz	88:DC:96:3A:9A:DB
Country	USA
Current Local Time	Wed Aug 5 07:40:15 UTC 2015
Firmware Version	2.0.0
Management VLAN ID	Untagged

- The **LAN Information** section shows the Local Area Network settings such as the LAN IP Address, Subnet mask, and DNS Address.

LAN Information - IPv4	
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
Primary DNS	0.0.0.0
Secondary DNS	0.0.0.0
DHCP Client	Disable
Spanning Tree Protocol (STP)	Disable

- The **Wireless LAN Information 5 GHz** section shows wireless information such as Operating Mode, Frequency, and Channel. Since the EnStationAC supports multiple-SSIDs, information about each SSID, the ESSID, and security settings, are displayed

Note: Profile Settings are only applicable in Access Point and WDS AP modes.

Wireless LAN Information - 5GHz				
Operation Mode	AP			
Wireless Mode	802.11 A/N			
Channel Bandwidth	40 MHz			
Channel	5.88 GHz (Channel 132)			
Distance	1000 M			
Profile	SSID	Security	VID	802.1Q
#1	EnGenius063C97_1-5GHz	None	51	Disable
#2	EnGenius063C97_2-5GHz	None	52	Disable
#3	EnGenius063C97_3-5GHz	None	53	Disable
#4	EnGenius063C97_4-5GHz	None	54	Disable
#5	EnGenius063C97_5-5GHz	None	55	Disable
#6	EnGenius063C97_6-5GHz	None	56	Disable
#7	EnGenius063C97_7-5GHz	None	57	Disable
#8	EnGenius063C97_8-5GHz	None	58	Disable

- The **Statistics** section shows Mac information such as

SSID, MAC address, RX and TX.

Statistics				
	SSID	MAC	RX(Packets)	TX(Packets)
Ethernet		00:02:6F:FF:FF:FF	75.57KB(856 PKts.)	455.926KB(399 PKts.)
EnGenius063C96_1-2.4GHz		88:DC:96:06:3C:96	0KB(0 PKts.)	0.792KB(4 PKts.)
EnGenius063C97_1-5GHz		88:DC:96:06:3C:97	0KB(0 PKts.)	0KB(0 PKts.)

Connection

5 GHz Connection List

Click the connection link under the Overview menu displays the connection list of clients associated to the EnStationAC's 5 GHz, along with the MAC addresses and signal strength for each client. Clicking **Refresh** updates the client list.

Note: Only applicable in Access Point and WDS AP modes.

WDS Link List

Click the connection link under the Overview menu. This page displays the current status of the WDS link, including WDS Link ID, MAC Address, Link Status and RSSI.

Note: Only applicable in WDS AP and WDS Bridge modes.

Overview

Device Status

Connections

Network

Basic

Wireless

Management

Advanced

Time Zone

WiFi Scheduler

Tools

System Manager

Account

Firmware

Log

Connection List - 5GHz

SSID	MAC Address	TX	RX	RSSI	Block
EnGenius3A9ADB_1-5GHz	B4:52:7E:80:C2:37	0Kb	1Kb	-80dBm	Kick

Refresh

Client Bridge Connection Status

Click the connection link under the Overview menu. This page displays the connection status between Access Point, including associated SSID, BSSID, connection status, wireless mode, current channel, security, Tx Data Rate(Mbps), Current noise level and signal strength.

Chapter 5

Network



Basic IP Settings

IPv4/IPv6 Settings

This page allows you to modify the device's IP settings.

IPv4 Settings	
IP Network Setting	Static IP ▾
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
Primary DNS	0.0.0.0
Secondary DNS	0.0.0.0

IPv6 Settings	
	☒ Link-local Address
IP Address	
Subnet Prefix Length	
Gateway	
Primary DNS	
Secondary DNS	

IP Network Settings: Select whether the device IP address will use a static IP address specified in the IP address field or be obtained automatically when the device connects to a DHCP server.

IP Address: The IP address of this device.

Subnet Mask: The IP Subnet mask of this device.

Gateway: The Default Gateway of this device. Leave it blank if you are unsure of this setting.

Primary/Secondary DNS: The primary/secondary DNS address for this device.

Save: Click **Save** to confirm the changes.

Spanning Tree Protocol (STP) Settings

This page allows you to modify the Spanning Tree settings. Enabling the Spanning Tree protocol will prevent network loops in your LAN network.

Spanning Tree Protocol (STP) Settings		
Status	Disable▼	
Hello Time	2	seconds (1-10)
Max Age	20	seconds (6-40)
Forward Delay	4	seconds (4-30)
Priority	32768	(0-65535)

Spanning Tree Status: Enables or disables the Spanning Tree function.

Hello Time: Specifies Bridge Hello Time in seconds. This value determines how often the device sends handshake packets to communicate information about the topology throughout the entire Bridged Local Area Network.

Max Age: Specifies Bridge Max Age in seconds. If another bridge in the spanning tree does not send a hello packet for a long period of time, it is assumed to be inactive.

Forward Delay: Specifies Bridge Forward Delay in seconds. Forwarding delay time is the time spent in each of the Listening and Learning states before the Forwarding state is entered. This delay is provided so that when a new bridge comes onto a busy network, it analyzes data traffic before participating in the network.

Priority: Specifies the Priority Number. A smaller number has a greater priority than a larger number.

Save: Click **Save** to confirm the changes.

Chapter 6

Wireless



Wireless

Wireless Settings

Wireless Settings

Device Name	ENSTATIONAC
Country/Region	USA

Device Name: Enter a name for the device. The name you type appears in SNMP management. This name is not the SSID and is not broadcast to other devices.

Save: Click **Save** to confirm the changes.

This page displays the current status of the Wireless settings of the EnStationAC.

Wireless Network

5GHz	
Operation Mode	Access Point ☒ Green
Wireless Mode	802.11 AC/N
Channel HT Mode	80MHz(AC Only)
Extension Channel	Lower Channel
Channel	Auto
Transmit Power	Auto
Data Rate	Auto
RTS / CTS Threshold (1 - 2346)	2346
Client Limit	127 ☒ Enable ☐ Disable
AP Detection	Scan
Distance (1-30km)	1 (0.6miles)

Operation Mode: Select **Operation Mode**. The ENH220EXT supports multi-operation modes: Access Point, Client Bridge, or WDS(WDS AP, WDS Bridge, and WDS Station).

Wireless Mode: Supports 802.11ac/a/n mixed mode in 5 GHz.

Channel HT Mode: The default channel bandwidth is 20 MHz/ 40 /80 MHz. The larger the channel, the greater the transmission quality and speed.

Extension Channel: Select the **upper** or **lower** channel. Your selection may affect the Auto channel function.

Channel: Select the appropriate channel and frequency.

Select **Auto** to enable auto-channel selection.

Transmit Power: Sets the power output of the wireless signal.

Data Rate: Select a data rate from the drop-down list. The data rate affects throughput of data in the EnStationAC. Select the best balance for you and your network but note that the lower the data rate, the lower the throughput, though transmission distance is also lowered.

RTS/CTS Threshold: Specifies the threshold package size for RTC/CTS. A small number causes RTS/CTS packets to be sent more often and consumes more bandwidth.

Client Limits: Limits the total number of clients.

Aggregation: Merges data packets into one packet. This option reduces the number of packets, but also increases packet sizes.

AP Detection: AP Detection can select the best channel to use by scanning nearby areas for Access Points.

Distance: Specifies the distance between Access Points and clients. Note that longer distances may drop higher-speed connections.

Save: Click **Save** to confirm the changes or **Cancel** to cancel and return to previous settings.

Site Survey		I.Infrastructure				A.Ad_hoc	
BSSID	SSID	Channel	Signal Level	Type	Security	Mode	
00:02:6F:ED:58:90	EnGeniusED5890_1-5GHz	36	-75 dBm	11a/n	None	[--]	
88:DC:96:0C:95:9A	EnGenius0C959A_1-5GHz	36	-80 dBm	11a/n	None	[--]	
88:DC:96:21:FF:F5		60	-76 dBm	11a/n	None	[--]	
88:DC:96:21:FF:F8		60	-84 dBm	11a/n	None	[--]	
FD:80:52:36:38:CC	FREE_WIFI	140	-84 dBm	11ac	None	[--]	
00:30:AC:03:27:04	ADANT_5G_TEST	149	-62 dBm	11ac	None	[--]	
DC:9F:DB:70:21:B1	UBNTguest	157	-66 dBm	11ac	None	[--]	
00:02:6F:A0:42:D2	EnGenius_Home_5G	36	-66 dBm	11ac	WPA2-PSK	[--]	
88:DC:96:16:A1:36	EnGenius16A139	44	-78 dBm	11a/n	WPA2-PSK	[--]	
88:DC:96:33:46:F2	SNWL	60	-67 dBm	11a/n	WPA2-PSK	[--]	
88:DC:96:27:C2:34	SNWL	100	-63 dBm	11ac	WPA2-PSK	[--]	
88:DC:96:27:C2:37	SNWL	100	-64 dBm	11ac	WPA2-PSK	[--]	
88:DC:96:3A:3C:4A	ezNU_5G_1	108	-74 dBm	11ac	WPA2-PSK	[--]	
88:DC:96:3A:3C:41	ezNU_5G_1	108	-73 dBm	11ac	WPA2-PSK	[--]	
88:DC:96:3A:3C:47	ezNU_5G_1	108	-77 dBm	11ac	WPA2-PSK	[--]	
88:DC:96:3A:3C:50	ezNU_5G_1	108	-75 dBm	11ac	WPA2-PSK	[--]	
88:DC:96:3A:3C:44	ezNU_5G_1	108	-77 dBm	11ac	WPA2-PSK	[--]	
88:DC:96:17:3F:C8	ezNU_5G_1	149	-77 dBm	11a/n	WPA2-PSK	[--]	
88:DC:96:23:91:0F	EPG_NTC5	149	-69 dBm	11a/n	WPA2-PSK	[--]	
88:DC:96:38:F8:AC	ezNU_5G_1	149	-79 dBm	11a/n	WPA2-PSK	[--]	

SSID Profile

Wireless Settings - 5GHz								
No.	Enable	SSID	Edit	Security	Suppressed SSID	Station Separation	Isolation	VID
1	☒	EnGenius063C97_1-5GHz	Edit	None	☐	☐	☐	51
2	☐	EnGenius063C97_2-5GHz	Edit	None	☐	☐	☐	52
3	☐	EnGenius063C97_3-5GHz	Edit	None	☐	☐	☐	53
4	☐	EnGenius063C97_4-5GHz	Edit	None	☐	☐	☐	54
5	☐	EnGenius063C97_5-5GHz	Edit	None	☐	☐	☐	55
6	☐	EnGenius063C97_6-5GHz	Edit	None	☐	☐	☐	56
7	☐	EnGenius063C97_7-5GHz	Edit	None	☐	☐	☐	57
8	☐	EnGenius063C97_8-5GHz	Edit	None	☐	☐	☐	58

Current Profile: You can configure up to sixteen (16) different SSIDs (eight (8) per band). If multiple client devices will be accessing the network, you can arrange the devices into SSID groups. Click **Edit** to configure the profile and check whether you want to enable extra SSID.

SSID: Specifies the SSID for the current profile.

Suppressed SSID: Check this option to hide the SSID from clients. If checked, the SSID will not appear in the site survey.

Station Separation: Click the appropriate radio button to allow or prevent communication between client devices.

VID: Specifies the VLAN tag for each profile. If your network

includes VLANs, you can specify a VLAN ID for packets pass through the Access Point with a tag.

Wireless Security: See the Wireless Security section.

Isolation: Restrict clients communicating with different VIDs by selecting the radio button.

Save: Click **Save** to accept the changes.

Wireless Security

The Wireless Security section lets you configure the EnStationAC's security modes: WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA, WPA2, and WPA Mixed. It is strongly recommend that you use WPA2-PSK.

Wireless Security - 5GHz

Security Mode	WEP ▾
Auth Type	Open System ▾
Input Type	Hex ▾
Key Length	40/64-bit (10 hex digits or 5 ASCII char) ▾
Default Key	1 ▾
Key1	
Key2	
Key3	
Key4	

Auth Type: Select **Open System** or **Shared Key**.

Input Type:

ASCII: Regular Text (recommended)

Hexadecimal Numbers (For advanced users)

Key Length: Select the desired option and ensure that wireless clients use the same setting. Your choices are 64, 128, and 152-bit password lengths.

Default Key: Select the Key you wish to be the default. Transmitted data is **ALWAYS** encrypted using the Default Key; the other Keys are for decryption only. You must enter a Key Value for the Default Key.

Encryption Key Number: Enter the Key Value or values you wish to use. Only the Key selected as Default is required. The others are optional.