

User Manual



EWS Indoor Access Point User Manual
version 1.3

802.11AX Indoor Ceiling Mount Access Point

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

- Supports IEEE802.11ax/ac/a/b/g/n wireless standards with up to 574 Mbps data rate on 2.4GHz band and 1,200 Mbps on 5GHz bands.
- Support MU-MIMO function on both 2.4GHz and 5GHz radio.
- Support Tx Beamforming to enlarge the transmitting distance.
- Perform 1024-QAM to increase 25% better throughput compare to 802.11AC 256-QAM.
- Systemic and distributed management over EnGenius ezMaster and EWS Management switch without licensing or subscription fee.
- More customized items on Band Steering for intelligent Management.
- Perform one-click update to deliver a configuration over multi-segments for these managed Access Points.

Introduction

EWS managed APs are dual-band wireless 802.11 ax/ac/a/b/g/n wireless Access Point that built in powerful interfaces to achieve great performance and evenly coverage under a pervasive environment. It can be configured as an: Managed mode or Stand-alone mode to network with multiple client devices including mobile, NB and other client devices for providing an optimal connecting speed which could be the best choice to pro-users, SMB, hotel, hospital and enterprise. Its high-powered, long-range characteristics make it a cost-effective alternative to ordinary Access Points that do not



have the range and reach to connect to a growing number of wireless users who wish to connect to a business network.

To protect sensitive data during wireless transmissions, the device offers different encryption settings for wireless transmissions, including industry standard WPA2 encryption. The device also includes MAC address filtering

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 © 2019 EnGenius Technologies, Inc. All rights reserved.

to allow network administrators to offer network access only to known computers and other devices based on their MAC addresses.

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, 10), Mac OS, or Linux-based operating systems
- Web-Browsing Application (i.e.: Edge, Internet Explorer, Firefox, Safari, or another similar browser application)

Package Contents

- Access Point
- Ceiling Mount Base (9/16" T-Rail)
- Ceiling Mount Base (15/16" T-Rail)
- Mounting Screw Kit
- Quick Installation Guide

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

Technical Specifications

Standard:

IEEE802.11ax/ac/a/n on 5 GHz

IEEE802.11ax/b/g/n on 2.4 GHz

Antenna

Integrated Omni-directional antennas

Physical Interfaces

1 x 10/100/1000 Ethernet Port with PoE support

LED Indicators

Power

LAN 1

LAN 2

2.4 GHz

5 GHz

Power Requirements

Powered from a DC12V/ 1.5A adapter

Operation Modes

Managed Mode

Stand alone Mode

Exquisite RF Management

Background Scanning

Auto Transmit Power

Auto Channel Selection

Fast Roaming (802.11K)

Band Steering

RSSI Threshold

Optimize Performance

Quality of Service (QoS): Follow 802.11e

Power Save Mode (UAPSD)

Pre-Authentication (Compliance with 802.11i&x)

PMK Caching (Compliance with 802.11i)

Fast Roaming (802.11r)

Multicast/Unicast Conversion

Easy to Management

BSSID

Multiple SSIDs

Guest Network

VLAN Tag

VLAN Per SSID

Management VLAN

Captive Portal (Support on Managed mode)

Finger Printing (support on Managed Mode)

Traffic Shaping Per user / Per client

MAC Address Filtering

E-Mail Alert

Save Configuration as Users Default

Wi-Fi Scheduler (Support on Managed mode)

SNMP V1/V2c/V3

MIB I/II, Private MIB

Clients Statistics

RADIUS Accounting

Comprehensive Protection

Wireless encryption standard

Hidden SSID in beacons
Rogue AP Detection (Support on Managed mode)
L2 Isolation
Client Isolation
Https
SSH tunnel

Security
WPA2 Personal (AES)
WPA2 Enterprise (WPA-PSK AES)
Hides SSID in beacons
MAC address filtering, up to 32 MACs per SSID
Wireless STA (Client) connection list
Https Support
SSH Support

Physical/Environment Conditions

Operating:

Temperature: 0 °C to 40 °C (32 °F to 158 °F)

Humidity (non-condensing): 90% or less

Storage:

Temperature: -40 °C to 80 °C (-40 °F to 176 °F)

Humidity (non-condensing): 90% or less

Physical Interface

Dimensions and Weights

Length: 160 mm (6.30")

Width: 160 mm (6.30")

Depth: 34 mm (1.34")

Weight: 370 g (0.75 lbs)



- 1 Latch: Fix mounting when sliding bracket into this slot
- 2 Reset Button: Push this button to reset or reboot this device
- 3 LAN Port (Proprietary 54V/0.6A or 802.3at): Ethernet port for RJ-45 cable.
- 4 DC-Jack: Power from the included DC12V/2A adapter
- 5 Ceiling Mount Holes: Use these ports to assemble with mounting bracket
- 6 LED Indicators: LED lights for Power, LAN Port, 2.4 GHz Connection and 5 GHz Connection.

Chapter 2

Before You Begin



Computer Settings

Windows XP/Windows 7/Windows 8/Windows 10

In order to use the Access Point, 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



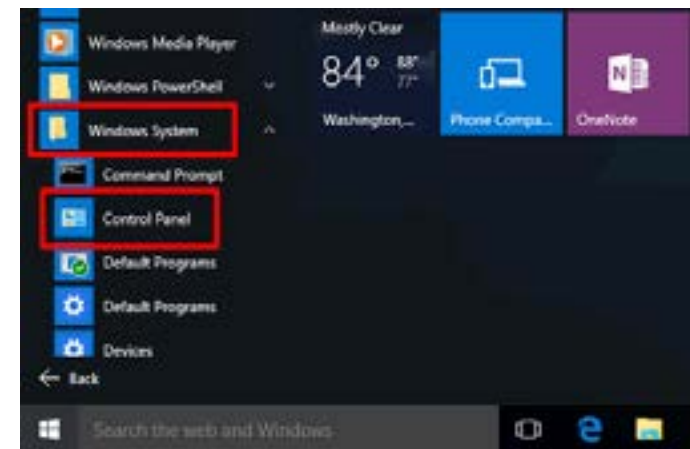
Windows 7

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



Windows 8

1c. In Windows 10, click Start to select All APPs to enter the folder of Windows system for selecting Control Panel.



Windows 10

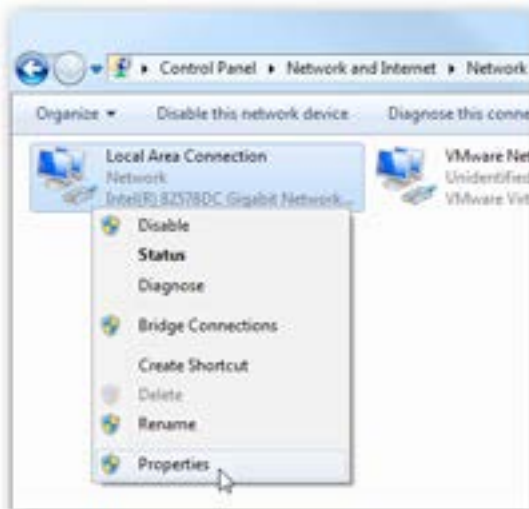
2a. In Windows XP, click Network Connections.



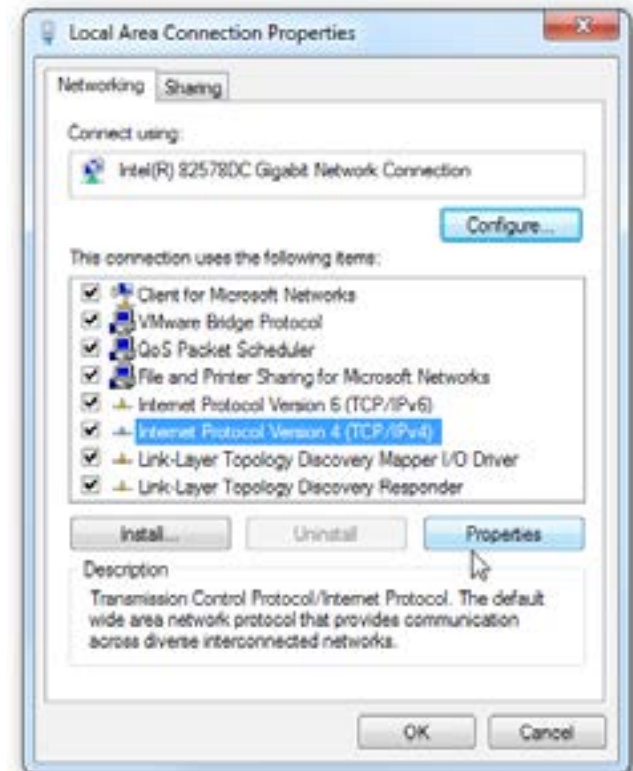
2b. In Windows 7/Windows 8/Windows 10, click View Network Status and Tasks in the Network and Internet section, then select Change adapter settings.



3. Right click on Local Area Connection and select Properties.



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



f

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

Note: Ensure that the IP address and Subnet mask are

on the same subnet as the device.

For example: ENH220EXT 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 Access Point and Subnet mask then press OK.

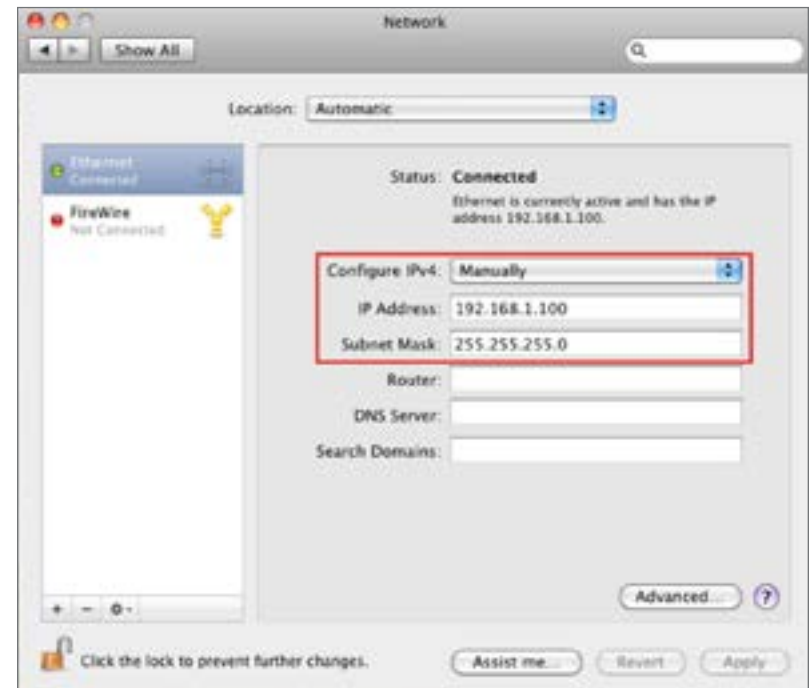
Note: Ensure that the IP address and Subnet mask are on the same subnet as the device.

For example: AP 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.Connect one end of the Ethernet cable into the LAN port of the Access Point and the other end to the Ethernet port on the computer.
- 2.Connect a Power cord with the PoE Adapter and plug the other end into an electrical outlet.
- 3.Connect the second Ethernet cable into the LAN port of this PoE Adapter and the other end to the Ethernet port on the computer.

Note1: The Access Point can be powered by 802.3af/at PoE (Power over Ethernet). You can consider to adopt

EnGenius EPA5006GP or EPA5006GAT for powering up your 11AX device.

1

3

2

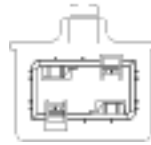
Mounting the AP

Using the provided hardware, the AP can be attached to a wall or a ceiling.

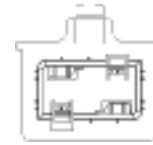
1. Managed Indoor Access Point



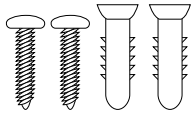
2. Ceiling Mount Base (9/16" T-Rail)



3. Ceiling Mount Base (15/16" T-Rail)



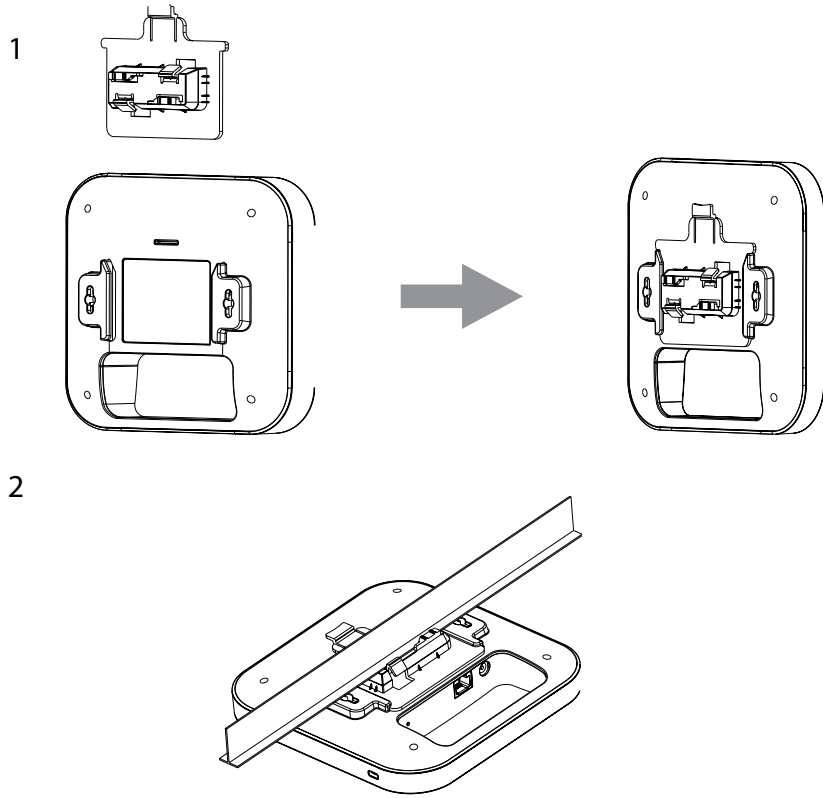
4. Mounting Screw Kit



Ceiling Mount an Access Point

1) Slide the ceiling mount base into the slot of the Access Point.

2) Hold the Access Point with one hand to reach the other hand over the T-Rail sides of the bracket. Then hook the stationary end of the ceiling mount bracket onto the T-Rail.

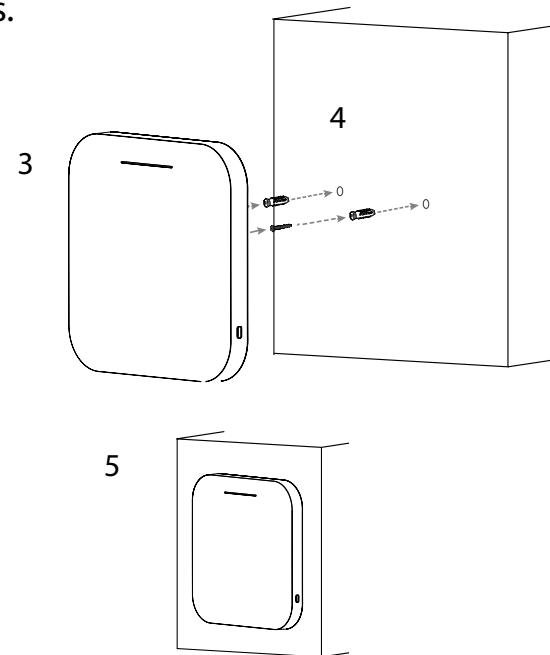


Wall Mount an Access Point

3) Continued from A, determine where the Access Point to be placed and mark location on the surface for the two mounting holes. Use the appropriate drill bit to drill two 8.1mm diameter and 26mm depth holes in the markings and hammer the bolts into the openings.

4) Screw the anchors unto the holes until they are flush with the wall ; screw the included screws into the anchors.h

5) Place the Access Point against wall with the mounting screw heads.



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.

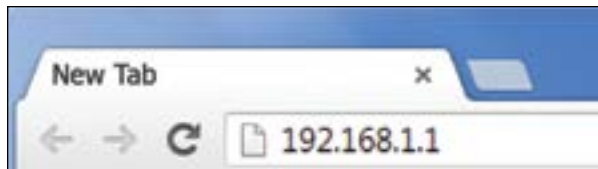
Default Settings

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.



* The model will be varied by different models.

3.If successful, you will be logged in and see the User Menu of this Access Point.

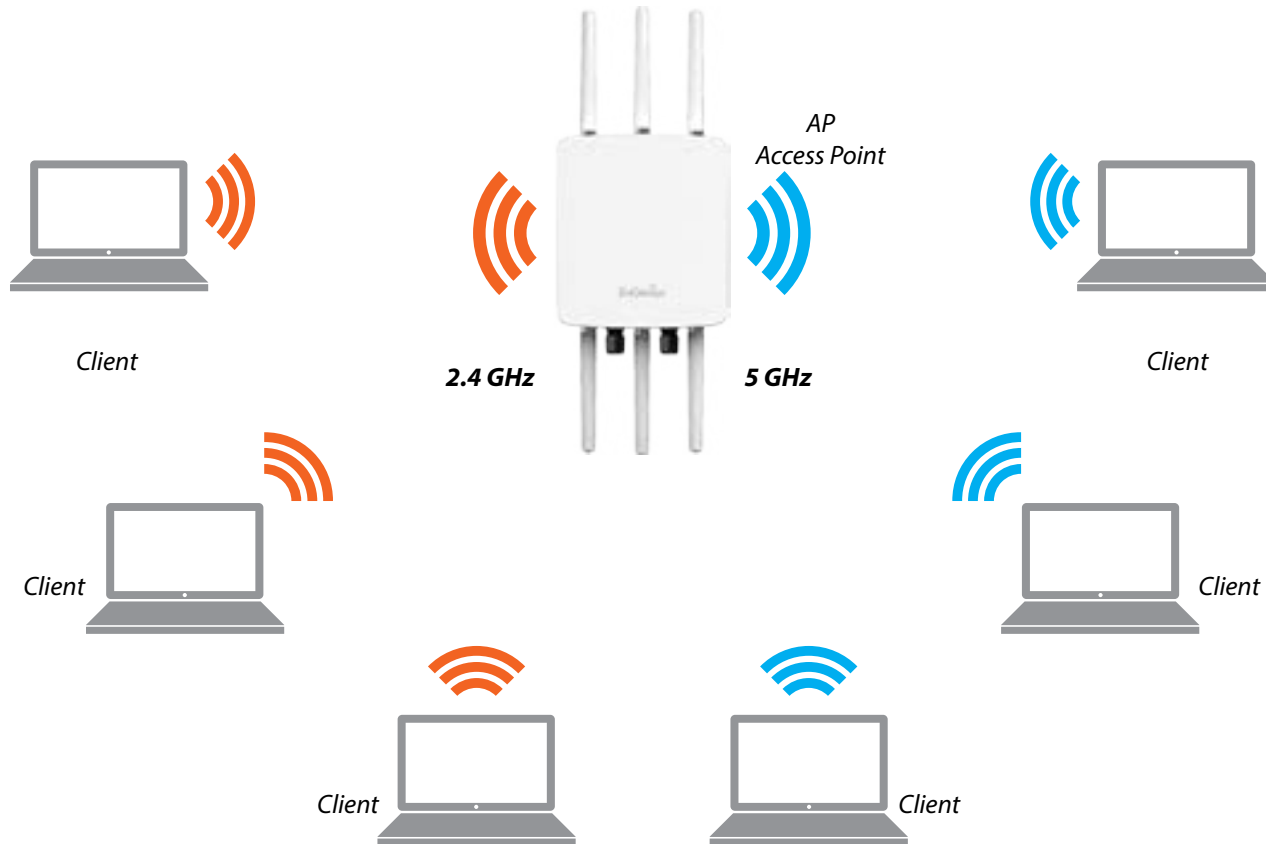
Chapter 4

Building a Wireless Network



Access Point Mode

In Access Point Mode, AP behaves like a central connection for stations or clients that support IEEE 802.11ac/a/b/g/n networks. The stations and clients must be configured to use the same SSID (Service Set Identifier) and security password to associate with the AP. The AP supports up to eight SSIDs per band at the same time for secure access.



Chapter 5

Status



Overview

Save Changes

This page lets you save and apply the settings shown under Unsaved changes list, or Revert 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 is only applicable in Access Point, WDS AP or WDS BR mode.

Device Information

Device Name	ENS620EXT
MAC Address	
- LAN1	88:DC:96:00:00:10
- LAN2	88:DC:96:00:00:11
- Wireless LAN - 2.4GHz	88:DC:96:00:00:12
- Wireless LAN - 5GHz	88:DC:96:00:00:13
Country	USA
Current Local Time	Tue Jul 12 11:45:00 2016
Uptime	0h 4m 57s
Firmware Version	1.0.0
Management VLAN ID	Untagged

- The Memory Information section shows usage of memory such as Total Available, Free, Cached, Buffered

Memory Information

Total Available	128884 KB / 236336 KB (54%)
Free	85352 KB / 236336 KB (36%)
Cached	24108 KB / 236336 KB (10%)
Buffered	8624 KB / 236336 KB (3%)

- The LAN Information section shows the Local Area Network settings such as the LAN IP Address, Subnet mask, Primary DNS Address, Secondary DNS Address, status of DHCP client, and status of Spanning Tree protocol (STP).

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 2.4 GHz/5 GHz section shows wireless information such as Operation Mode, Frequency, and Channel. Since this Access Point 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 - 2.4GHz

Operation Mode	Access Point			
Wireless Mode	802.11 B/G/N			
Channel Bandwidth	20 MHz			
Channel	2.412 GHz(Channel 1)			
Profile	SSID	Security	VID	802.1Q
#1	EnGenius_Test	None	1	Disable
#2	EnGenius-mac_1-2.4Ghz	None	2	Disable
#3	EnGenius-mac_3-2.4Ghz	None	3	Disable
#4	EnGenius-mac_4-2.4Ghz	None	4	Disable
#5	EnGenius-mac_5-2.4Ghz	None	5	Disable
#6	EnGenius-mac_6-2.4Ghz	None	6	Disable
#7	EnGenius-mac_7-2.4Ghz	None	7	Disable
#8	EnGenius-mac_8-2.4Ghz	None	8	Disable
#9	EnGenius-2.4Ghz_GuestNetwork	None		Disable

Wireless LAN Information - 5GHz

Operation Mode	WDS Access Point			
Wireless Mode	802.11 N/A/C			
Channel Bandwidth	80 MHz			
Channel	5.180 GHz(Channel 36)			
Profile	SSID	Security	VID	802.1Q
#1	EnGenius_Test	None	51	Disable
#2	EnGenius-mac_2-5GHz	None	52	Disable
#3	EnGenius-mac_3-5GHz	None	53	Disable
#4	EnGenius-mac_4-5GHz	None	54	Disable

- The Statistics section shows Mac information such as SSID, MAC address, RX and TX.

Statistics

SSID	MAC	RX(Packets)	TX(Packets)
Ethernet	88:DC:96:00:00:10	134.37 KB(829 Pkts.)	893.75 KB(857 Pkts.)
EnGenius-mac_1-2.4Ghz	88:DC:96:00:00:12	0.00 B(0 Pkts.)	21.34 KB(149 Pkts.)
EnGenius-mac_1-5GHz	88:DC:96:00:00:13	0.00 B(0 Pkts.)	6.02 KB(44 Pkts.)

Connections

2.4 GHz/5 GHz Connection List

Click the connection link under the Overview menu displays the connection list of clients associated to the AP's 2.4 GHz/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.

2.4 GHz/5 GHz 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.

Connection List - 2.4GHz

SSID	MAC Address	TX	RX	RSSI	Block
------	-------------	----	----	------	-------

WDS Link List - 5GHz

WDS Link ID#	MAC Address	Link Status	RSSI(dBm)
--------------	-------------	-------------	-----------

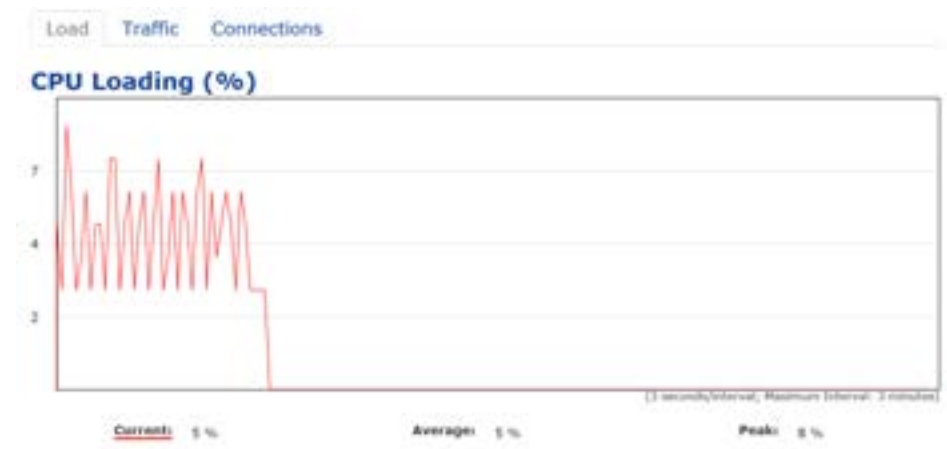
Refresh

Realtime

Realtime

The Realtime section contains the following options:

CPU Loading: 3 minutes CPU loading percentage information, it displays current loading, average loading and peak loading status. Left bar is loading percentage; button is time tracing. Interval is every 3 seconds



Traffic Loading: 2.4GHz and 5GHz and Ethernet port inbound and outbound traffic by current, average and peak time.



Realtime Connection (Pkts): Overview on current active network connections. It displays UDP and TCP packets information and other connection status. UDP connections curve is in blue; TCP connection curve is in green; others curve is in red. Below of chart shows connections source and destination.

Chapter 6

Network



Basic

IPv4/IPv6 Settings

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

IPv4 Settings		
IP Network Setting	☒ DHCP ☐ 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	☒ Enable ☐ Disable	
Hello Time	2	seconds (1-10)
Max Age	20	seconds (6-40)
Forward Delay	15	seconds (4-30)
Priority	32768	(0-65535)

Spanning Tree Status: Enables or Disables the Spanning Tree function. Default is Disable.

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 7

2.4 GHz & 5 GHz

Wireless



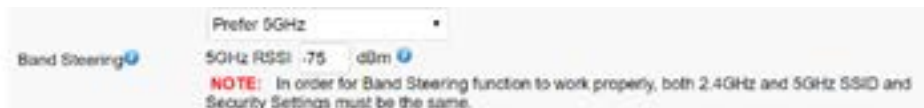
Wireless

Wireless Settings

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.

Band Steering: Enable Band Steering to send 802.11n clients to the 5 GHz band, where 802.11b/g clients cannot go, and leave 802.11b/g clients in 2.4GHz to operate at their slower rates. Before implementing this feature, we suggest you to assure the both 2.4GHz and 5GHz SSID, as well as security settings must be the same. EnGenius Band Steering supports following advanced settings,

***Force 5GHz:** When band steering is configured to Force 5GHz mode, the AP will not dual band capable client devices to network to the 2.4GHz band only if the client devices are not currently associated on 2.4GHz radio in this AP.



***Prefer 5GHz:** When band steering is configured to Prefer 5GHz mode, the AP will steer dual band capable client

devices to 5GHz radio when the RSSI value of these client devices on 5GHz radio is more than set one. The allowed RSSI value for default setting is -75dBm.



***Band Balance:** When band steering is configured to Band Balance mode, the AP will steer dual band capable client devices to 5GHz when the RSSI value of these client devices on 5GHz radio is more than set one. To evenly allocate RF resource on the both 2.4GHz and 5GHz radios, users also can set the portion of client devices on 5GHz radio to assure smoothly connection. The default value of the 5GHz radio is 75%.

Save: Click Save to confirm the changes.

This page displays the current status of the Wireless settings of this AP.

2.4 GHz/5 GHz Wireless Network

	2.4GHz	5GHz
Operation Mode	Access Point *  Green	Access Point *  Green
Wireless Mode	802.11 B/G/N *	802.11 AC/N *
Channel HT Mode	20MHz *	40MHz *
Channel	Configuration	
Transmit Power	Auto *	Auto *
Data Rate	Auto *	Auto *
RTS/CTS Threshold (1 - 2346)	2346	2346
Client Limits	127 * Enable ☐ Disable ☐	127 * Enable ☐ Disable ☐
Aggregation	32 Frames 50000 Bytes(Max)	
AP Detection	Scan	Scan
Distance (1-30km)	1 (0.6miles)	1 (0.6miles)

Operation Mode: EWS 4x4 devices support Access Point currently.

Wireless Mode: Scrow down this list to select wireless broadcasting standard on 2.4GHz and 5GHz frequency bands.

Channel HT Mode: Scrow down this list to select bandwidth for operating under a frequency band. The default channel bandwidth is 20 MHz on 2.4GHz frequency radio and 40 MHz on 5GHz frequency radio. Considering the different

applications, users can decide to implement a channel bandwidth to fulfill real applications. The larger the channel, the greater the transmission quality and speed.

Transmit Power (Tx Power): Default Tx power is Auto to obey regulatory power of each country.

Channel: Click Configuration button to open a new windows to configure channels for performing wireless service.

2.4GHz		5GHz	
All	None	All	None
1,6,11	1,4,8,11	U-NII-1	U-NII-2A
1,7	1,5,9	U-NII-2B	U-NII-3
Ch 01 : 2.412 GHz	Ch 02 : 2.417 GHz	Ch 36 : 5.180 GHz	Ch 40 : 5.200 GHz
Ch 03 : 2.422 GHz	Ch 04 : 2.427 GHz	Ch 44 : 5.220 GHz	Ch 48 : 5.240 GHz
Ch 05 : 2.432 GHz	Ch 06 : 2.437 GHz	Ch 52 : 5.260 GHz	Ch 56 : 5.280 GHz
Ch 07 : 2.442 GHz	Ch 08 : 2.447 GHz	Ch 60 : 5.300 GHz	Ch 64 : 5.320 GHz
Ch 09 : 2.452 GHz	Ch 10 : 2.457 GHz	Ch100 : 5.500 GHz	Ch104 : 5.520 GHz
Ch 11 : 2.462 GHz		Ch108 : 5.540 GHz	Ch112 : 5.560 GHz
		Ch132 : 5.660 GHz	Ch136 : 5.680 GHz
		Ch149 : 5.745 GHz	Ch153 : 5.765 GHz
		Ch157 : 5.785 GHz	Ch161 : 5.805 GHz

Save Save current settings()

*Default configuration: Default setting of channel selection is "All" to perform auto channel on the exist channel list.

*None: Click “None” to disable the setting on this radio. This radio is disabled.

*Group Configuration: Click specific groups of channels for performing auto channel function. For example, users can click U-NII-1 and U-NII-3 to perform auto channel on these bands; the mechanism of this AP will select the relatively optimal channel to perform wireless service.

Data Rate: Select a data rate from the drop-down list. The data rate affects throughput of data in the AP. 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 RTS/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 on this radio. Once setting the ceiling of client numbers, the maximum associated client devices will be restricted at this number.

Aggregation: Integrate multiple data packets into one packet to deliver to client devices. 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 client devices. The proper setting for this parameter may assist Access Points to avoid the improper operation when transmitting data under a filed application.

* The Distance setting should be supported on the outdoor Access Point including EWS870AP and EWS871AP.

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

2.4 GHz/5 GHz SSID Profile

Wireless Settings - 2.4GHz								
No.	Enable	SSID	Edit	Security	Suppressed SSID	Station Separation	Isolation	VID
1	☒	EnGenius063C96_1-2.4GHz	Edit	None	☐	☐	☐	1
2	☐	EnGenius063C96_2-2.4GHz	Edit	None	☐	☐	☐	2
3	☐	EnGenius063C96_3-2.4GHz	Edit	None	☐	☐	☐	3
4	☐	EnGenius063C96_4-2.4GHz	Edit	None	☐	☐	☐	4
5	☐	EnGenius063C96_5-2.4GHz	Edit	None	☐	☐	☐	5
6	☐	EnGenius063C96_6-2.4GHz	Edit	None	☐	☐	☐	6
7	☐	EnGenius063C96_7-2.4GHz	Edit	None	☐	☐	☐	7
8	☐	EnGenius063C96_8-2.4GHz	Edit	None	☐	☐	☐	8

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 AP's security modes

Wireless Security - 2.4GHz	
Security Mode	WEP ▼
Auth Type	Open System ▼
Input Type	Hex ▼
Key Length	40/64-bit (10 hex digits or 5 A ▼
Default Key	Key #1 ▼
Key #1	
Key #2	
Key #3	
Key #4	

Security Mode: Including WPA2-PSK and WPA2 Enterprise.

* Setting of WPA2-PSK:

Encryption: You may select AES to be the encryption type you would like. Please ensure that your wireless clients use the same settings.

Passphrase: Wireless clients must use the same Key to associate the device. If using ASCII format, the Key must be from 8 to 63 characters in length. If using HEX format, the Key must be 64 HEX characters in length.

Group Key Update Interval: Specifies how often, in seconds, the Group Key changes. The default value is 3600.

* Setting of WPA2-Enterprise (Pre-Shared Key):

Encryption: Select the WPA encryption type you would like. Please ensure that your wireless clients use the same settings.

Radius Server: Enter the IP address of the Radius server.

Radius Port: Enter the port number used for connections to the Radius server.

Radius Secret: Enter the secret required to connect to the Radius server.

Radius Accounting: Enable or disable accounting feature.

Radius Accounting Server: Enter the IP address of the

Radius accounting server.

Radius Accounting Port Enter the port number used for connections to the Radius accounting server.

Radius Accounting Secret: Enter the secret required to connect to the Radius accounting server.

Interim Accounting Interval: Specifies how often, in seconds, the accounting data sends.

Wireless Security - 5GHz	
Security Mode	WPA-PSK ▼
Encryption	AES ▼
Passphrase	
Group Key Update Interval	3600

Wireless Security - 5GHz	
Security Mode	WPA-Enterprise ▼
Encryption	AES ▼
Group Key Update Interval	3600
Radius Server	
Radius Port	1812 Default 1812
Radius Secret	
Radius Accounting	Disable ▼
Radius Accounting Server	
Radius Accounting Port	1813
Radius Accounting Secret	
Interim Accounting Interval	600

Wireless MAC Filtering

Wireless MAC Filtering is used to allow or deny network access to wireless clients (computers, tablet PCs, NAS, smartphones, etc.) according to their MAC addresses. You can manually add a MAC address to restrict permission to access this AP. The default setting is: Disable Wireless MAC Filter.

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



The image shows a web-based configuration interface for 'Wireless MAC Filter'. At the top, the title 'Wireless MAC Filter' is displayed. Below it, there is a section for 'ACL Mode' with a dropdown menu currently set to 'Disabled'. To the right of the dropdown is a small '+' icon. Below the dropdown is a row of five empty input boxes for MAC addresses, followed by an 'Add' button. At the bottom, there is a label 'No.' followed by a 'MAC Address' label.

ACL Mode: Determines whether network access is granted or denied to clients whose MAC addresses appear in the MAC address table on this page. Your choices are: Disabled, Deny MAC in the list, or Allow MAC in the list.

MAC Address: Enter the MAC address of the wireless client.

Add: Click Add to add the MAC address to the MAC address table.

Delete: Delete the selected entries.

Save: Click Save to apply the changes.

Wireless Advanced

Wireless Traffic Shaping

Traffic shaping regulates the flow of packets leaving an interface to deliver improved Quality of Service.

Wireless Traffic Shaping	
Enable Traffic Shaping	☒ Enable ☐ Disable
Download Limit	100 ☐ Per User Mbps (1-999)
Upload Limit	100 ☐ Per User Mbps (1-999)

Enable Traffic Shaping: Default is disable. You may check this option to enable Wireless Traffic Shaping per SSID.

Download Limit: Specifies the wireless transmission speed used for downloading.

Upload Limit: Specifies the wireless transmission speed used for uploading.

Per User: Check this option to enable wireless traffic shaping per user function. This function allow users to limit the maximum download / upload bandwidth for each client devices on this SSID.

Save: Click Save to confirm the changes.

Fast Roaming

Enable the function to serve mobile client devices that roam from Access Point to Access Point. Some applications running on Client devices require fast re-association when they roam to a different Access Point

Please enter the settings of the SSID and initialize the Security mode to WPA enterprise, as well as to set the Radius Server firstly. Users can enable the Fast Roaming and implement the advanced search.

Please also set the same enterprise Encryption under the same SSID on other Access Points and enable the Fast Roaming. When the configuration is realized on different Access Point, the mobile client devices can run the voice service and require seamless roaming to prevent delay in conversation from Access Point to Access Point.

Fast Roaming ⓘ	
Enable Fast Roaming	☐ Enable ☒ Disable

Guest Network Settings

Adding a guest network allows visitors to use the Internet without giving out your office or company wireless security key. You can add a guest network to each wireless network in the 2.4 GHz b/g/n and 5 GHz ac/a/n frequencies.

Guest Network Settings					
Enable	SSID	Edit	Security	Suppressed SSID	Station Separation
☐	EnCensus-2.4GHz_GuestNet	Edit	None	☐	☒
☐	EnCensus-5GHz_GuestNet	Edit	None	☐	☒
Manual IP Settings					
- IP Address		192.168.200.1			
- Subnet Mask		255.255.255.0			
Automatic DHCP Server Settings					
- Starting IP Address		192.168.200.100			
- Ending IP Address		192.168.200.200			
- WINS Server IP		0.0.0.0			

the addresses by the DHCP server.

Ending IP Address: The last IP Address in the range of addresses assigned by the DHCP server.

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.

IP Address: The IP Address of this device.

Subnet Mask: The IP Subnet mask of this device.

Starting IP Address: The first IP Address in the range of

Chapter 8

Management



Management VLAN Settings

This page allows you to assign a VLAN tag to packets sent over the network. A VLAN is a group of computers on a network whose software has been configured so that they behave as if they were on a separate Local Area Network (LAN). Computers on VLAN do not have to be physically located next to one another on the LAN.

Note: Only applicable in Access Point.



Management VLAN: If your network includes VLANs, you can enable Management VLAN ID for packets passing through the Access Point with a tag.

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

Note: If you reconfigure the Management VLAN ID, you may lose your connection to this AP. Verify that the

DHCP server supports the reconfigured VLAN ID and then reconnect to this AP using the new IP address.

Advanced Settings

SNMP Settings

This page allows you to assign the Contact Details, Location, Community Name, and Trap Settings for a Simple Network Management Protocol (SNMP). SNMP is a networking management protocol used to monitor network attached devices. SNMP allows messages (called protocol data units) to be sent to various parts of the network. Upon receiving these messages, SNMP compatible devices (called agents) returns the data stored in their Management Information Bases.

SNMP Settings		
Status	* Enable ☐ Disable ☐	
Contact		
Location		
Community Name (Read Only)	public	
Community Name (Read Write)	private	
Trap Destination		
- Port	162	
- IP Address		
- Community Name	public	
SNMPv3 Settings		
- Status	* Enable ☐ Disable ☐	
- Username	admin	[1-31 Characters]
- Authorized Protocol	MD5	*
- Authorized Key	12345678	[8-32 Characters]
- Private Protocol	DES	*
- Private Key	12345678	[8-32 Characters]
- Engine ID		

SNMP Enable/Disable: Enables or disables the SNMP feature.

Contact: Specifies the contact details of the device.

Location: Specifies the location of the device.

Community Name (Read Only): Specifies the password for the SNMP community for read only access.

Community Name (Read/Write): Specifies the password for the SNMP community with read/write access.

Trap Destination Address: Specifies the IP address of the computer that will receive the SNMP traps.

Trap Destination Community Name: Specifies the password for the SNMP trap community.

SNMPv3: Enables or disables the SNMPv3 feature.

User Name: Specifies the username for SNMPv3.

Auth Protocol: Selects the authentication protocol type: MD5 or SHA.

Auth Key: Specifies the authentication key.

Priv Protocol: Selects the privacy protocol type: DES.

Priv Key: Specifies the privacy key for privacy.

Engine ID: Specifies the engine ID for SNMPv3.

Apply Save: Click Apply Save to apply the changes.

CLI Settings

The image shows three sections of a configuration interface:

- CLI Setting**: A row with a 'Status' label and a toggle switch set to 'Enable'.
- SSH Setting**: A row with a 'Status' label and a toggle switch set to 'Enable'.
- HTTPS Settings**: A row with a 'Status' label and a toggle switch set to 'Enable', and a second row with the label 'HTTPS forward' and a toggle switch set to 'Enable'.

CLI: The Command Line Interface (CLI) allows you to type commands instead of choosing them from a menu or selecting an icon.

SSH: Enable Secure Shell (SSH) to make secure, encrypted connections in the network. Secure Shell is a network protocol that allows data to be exchanged using a secure channel between two network devices.

HTTPS: Enable HTTPS to transfer and display web content securely. The Hypertext Transfer Protocol over SSL (Secure Socket Layer) is a TCP/IP protocol used by web servers to

transfer and display web content securely.

Email Alert

You can use the Email Alert feature to send messages to the configured email address when particular system events occur.

Note: Do NOT use your personal email address as it can unnecessarily expose your personal email login credentials. Use a separate email account made for this feature instead

The image shows the 'Email Alert' configuration form:

- Status**: A toggle switch set to 'Enable'.
- From**: A text input field.
- To**: A text input field.
- Subject**: A text input field with the placeholder text '[Email-Alert][EN5620EXT][88 E]'. There is a green checkmark icon to the right of the field.
- Email Account**: A section containing:
 - Username**: A text input field.
 - Password**: A text input field with a green checkmark icon to its right.
 - SMTP Server**: A text input field.
 - Port**: A text input field with the value '25'.
 - Security Mode**: A dropdown menu set to 'None'.
- Send Test Mail**: A button.
- Apply**: A blue button.
- Apply saved settings to take effect**: A text label.

Status: Enable this function for further settings.

From: Enter the email address to show the sender of the email.

To: Enter the address to receive email alerts.

Subject: Enter the text to appear in the email subject line.

Username: Enter the username for the email account that will be used to send emails.

Password: Enter the password for the email account that will be used to send emails.

SMTP Server: Enter the IP address or hostname of the outgoing SMTP server.

Port: Enter the SMTP port number to use for outbound emails.

Time Zone

Time Setting

This page allows you to set the internal clock of the AP.

Date and Time Settings

☐ Manually Set Date and Time

Date: 2016 / 06 / 16

Time: 07 : 21 (24-Hour)

☒ Automatically Get Date and Time

NTP Server: pool.ntp.org

Time Zone

Time Zone: UTC+00:00 Gambia, Liberia, Morocco

☐ Enable Daylight Saving

Start: January 1st Sun 00:00

End: January 1st Mon 00:00

Apply saved settings to take effect

Manually Set Date and Time: Manually specify the date and time.

Synchronize with PC: Click this button to synchronize Date and time of this AP with the PC.

Automatically Get Date and Time: Select Automatically Get Date and Time and check whether you wish to enter the IP address of an NTP server or use the default NTP server to have the internal clock set automatically.

Time Zone: Choose a time zone to implement the service for this AP.

Enable Daylight Saving: Check whether daylight savings applies to your area.

Start: Select the day, month, and time when daylight savings time starts.

Enable Daylight Saving: Select the day, month, and time when daylight savings times ends.

Auto Reboot Settings

You can specify how often you wish to reboot the AP.

Auto Reboot Setting

Status	☐ Enable ☒ Disable
Timer	☐ Sunday ☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday ☐ Saturday
	0 : 0

Auto Reboot Setting: Enables or disables the Auto Reboot function.

Timer: Select the day and enter the time you would like to reboot automatically.

Save: Click Save to apply the changes.

Wi-Fi Scheduler

The Wi-Fi Scheduler can be created for use in enforcing rules. For example, if you wish to restrict web access to Mon-Fri from 3pm to 8pm, you could create a schedule selecting Mon, Tue, Wed, Thu and Fri while entering a Start time of 3pm and End Time of 8pm to limit access to these times.

Wi-Fi Scheduler

Status	☐ Enable ☒ Disable NOTE: Please assure that the Time Zone Settings is synced with your local time when enabling the Wi-Fi Scheduler		
Wireless Radio	2.4GHz	+	
SSID Selection	EnGenius330052_1-2.4GHz +		
Schedule Templates	Choose a template +		

Day	Available		Duration
Sunday	available	+	00 : 00 ~ 24 : 00
Monday	available	+	00 : 00 ~ 24 : 00
Tuesday	available	+	00 : 00 ~ 24 : 00
Wednesday	available	+	00 : 00 ~ 24 : 00
Thursday	available	+	00 : 00 ~ 24 : 00
Friday	available	+	00 : 00 ~ 24 : 00
Saturday	available	+	00 : 00 ~ 24 : 00

Status: Enables or disables the Wi-Fi scheduler function.

Wireless Radio: Select 2.4 GHz or 5 GHz from the drop-down list for the preferred band type.

SSID Selection: Select a SSID from the drop-down list.

Schedule Templates: Select a schedule template from the drop-down list.

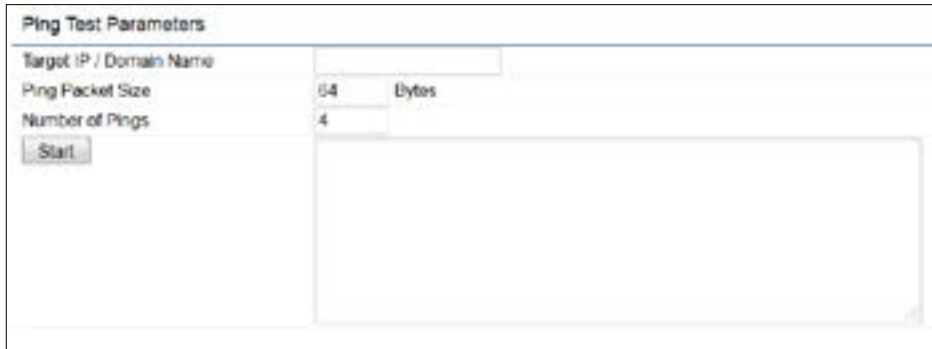
Day(s): Place a checkmark in the boxes for the desired days or select the All Week radio button to select all seven days of the week.

Duration: The Start Time is entered in two fields. The first box is for hours and the second box is for minutes. The End Time is entered in the same format as the Start time.

Tools

Ping Test Parameters

This page allows you to analyze the connection quality of the AP and trace the routing table to a target in the network.



The screenshot shows a web form titled "Ping Test Parameters". It contains three input fields: "Target IP / Domain Name" (empty), "Ping Packet Size" (set to 64 Bytes), and "Number of Pings" (set to 4). Below these fields is a "Start" button. To the right of the input fields is a large, empty rectangular area for displaying results.

Start Ping: Click Start Ping to begin pinging the target device (via IP).

Traceroute Target: Enter the IP address or domain name you wish to trace.

Start Traceroute: Click Start Traceroute to begin the trace route operation.



The screenshot shows a web form titled "Traceroute Test Parameters". It contains one input field: "Target IP / Domain Name" (empty). Below this field are two buttons: "Start" and "Stop". To the right of the input field is a large, empty rectangular area for displaying results.

Target IP: Enter the IP address you would like to search.

Ping Packet Size: Enter the packet size of each ping.

Number of Pings: Enter the number of times you wish to ping.

Speed Test Parameters / LED Control

This page allows you to implement speed test to realize the throughput of a target DUT.

Speed Test Parameters

Target IP / Domain Name	
Time Period	20 Sec
Check Interval	5 Sec
IPv4Port	5001
IPv6Port	5002

Target IP / Domain Name: Enter an IP address or domain name you wish to implement a speed test for realizing the variance on wireless speed.

Time Period: Enter the time in seconds that you would like the test to implement for and in how many intervals.

IPv4/IPv6 Port: This Access Points uses IPv4 5001 and IPv6 5002 port for the speed test.

Start: Click start to implement speed test.

LED Control

Control LED on/off for Power, LAN interface, or 2.4 GHz/5 GHz WLAN interface.

LED Control

Power	☒ Enable ☐ Disable
LAN	☒ Enable ☐ Disable
WLAN-2.4GHz	☒ Enable ☐ Disable
WLAN-5GHz	☒ Enable ☐ Disable

Apply saved settings to take effect

Power: Enables or disables the Power LED indicator.

LAN: Enables or disables the LAN LED indicator.

WLAN-2.4 GHz: Enables or disables the WLAN-2.4 GHz LED indicator.

WLAN-5 GHz: Enables or disables the WLAN-5 GHz LED indicator.

Device Discovery

This page allows you to discover devices from network for Operation Mode, IP Address, System MAC Address and Firmware version.

Device Discovery

Device Name	Operation Mode	IP Address	System MAC Address	Firmware Version
Scan				

Account

This page allows you to change the AP username and password. By default, the username is: admin and the password is: admin. The password can contain from 0 to 12 alphanumeric characters and is case sensitive.

Account Settings

A screenshot of the 'Account Settings' web interface. It features a title 'Account Settings' at the top. Below it are four input fields: 'Administrator Username', 'Current Password', 'New Password', and 'Verify Password'. Each field has a corresponding label to its left. To the right of the 'Current Password', 'New Password', and 'Verify Password' fields, there are small green circular icons with a checkmark inside, indicating password strength or validation status.

Administrator Username: Enter a new username for logging in to the New Name entry box.

Current Password: Enter the old password for logging in to the Old Password entry box.

New Password: Enter the new password for logging in to the New Password entry box.

Verify Password: Re-enter the new password in the Confirm Password entry box for confirmation.

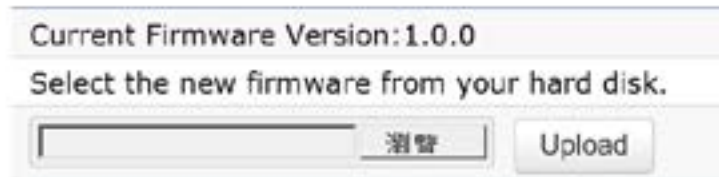
Apply: Click Apply to apply the changes.

Firmware

Firmware Upgrade

This page allows you to upgrade the firmware of the AP.

Firmware Upgrade

A screenshot of the 'Firmware Upgrade' web interface. It shows a title 'Firmware Upgrade'. Below the title, it displays 'Current Firmware Version: 1.0.0'. Underneath, there is a text prompt 'Select the new firmware from your hard disk.' followed by a file selection input field. To the right of the input field are two buttons: '선택' (Choose) and 'Upload'.

To Perform the Firmware Upgrade:

1. Click the Choose File button and navigate the OS file system to the location of the upgrade file.
2. Select the upgrade file. The name of the file will appear in the Upgrade File field.
3. Click the Upload button to commence the firmware upgrade.

Note: The device is unavailable during the Firmware upgrade process and must restart when the upgrade is completed. Any connections to or through the device will be lost.

Backup/Restore

This page allows you to save the current device configurations. When you save your configurations, you also can reload the saved configurations into the device through the Restore Saved Settings from a file section. If extreme problems occur, or if you have set the AP incorrectly, you can use the Reset button in the Revert to Factory Default Settings section to restore all the configurations of the AP to the original default settings.

Backup Setting: Click Export to save the current configured settings.

Restore New Setting: To restore settings that have been previously backed up, click Browse, select the file, and click Restore.

Restore to Default: Click Reset button to restore the AP to its factory default settings.

Backup/Restore Settings

Factory Setting

- Backup Setting ⓘ

Export

- Restore New Setting

選擇檔案 未選擇任何檔案

Import

- Reset to Default ⓘ

Reset

User Setting

- Back Up Setting as Default

Backup

- Restore to User Default ⓘ

Restore

- **Caution:** Please write down your account number and password before saving. The user settings will now become the new default settings at the next successful login.

User Setting

The function allows you to backup the current device configurations into the AP as the default value. If extreme problems occur, or if you have set the AP incorrectly, you can push the Reset button to revert all the configurations of the AP to the user default.

Back Up Setting as Default: Click Backup to backup the user settings you would like to the device's memory for the default settings.

Restore to User Default: Click Restore to restore user settings to the factory standard settings.

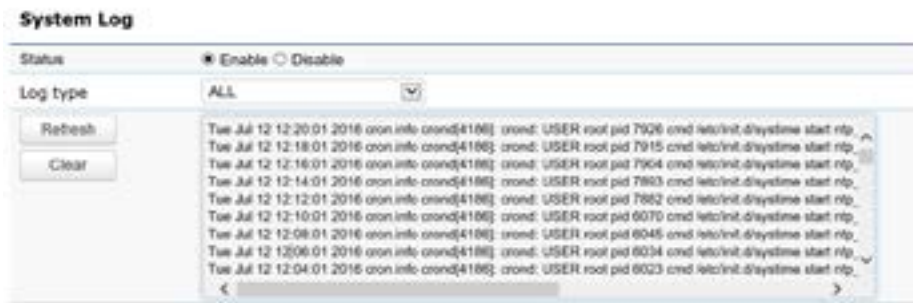
Note1: After setting the current settings as the default, you should click the Restore to Default on the web interface for reverting the settings into the factory default instead of pushing the reset button.

Note2: Please write down your account and password before saving. The user settings will now become the new default settings at the next successful login.

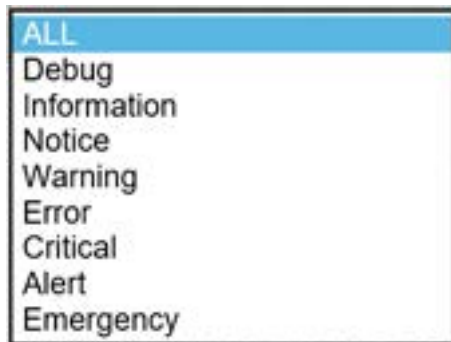
Log

System Log

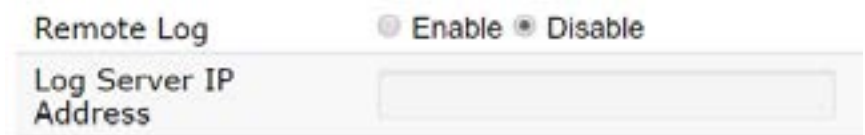
The AP automatically logs (records) events of possible interest in its internal memory. To view the logged information, click the Log link under the System Manager menu. If there is not enough internal memory to log all events, older events are deleted from the log. When powered down or rebooted, the log will be cleared.



Status: Enable/Disable this function.



Log type: You may choose one of log types to display logs in the following window. The default log types is All.



Remote Log

This page allows you to setup the Remote Log functions for this AP.

Remote Log: Enable/Disable this function.

Log Server IP Address: Enter the IP address of the log server.

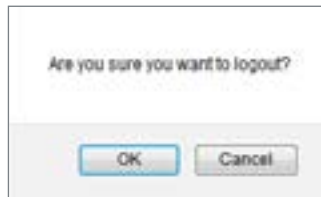
Apply: Click Apply to apply the changes.

Logout

Logout: Click Logout in Management menu to logout.



Please confirm again to logout the system or not.



Reset

In some circumstances, it may be required to force the device to reboot. Click on Reset to reboot the AP.



Once you click reset button, you will see the options for reboot or restore this AP.

Reboot the device: Click it to reboot this device.

Restore to Factory Default: Click it to reset this device to factory default setting.

Restore to User Default: Click it to reset this device to user default settings. For realizing the setting method, you may refer page 65 and page 66.



Appendix



Appendix A

Federal Communication Commission Interference Statement

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 radiate 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 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

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.



FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

IMPORTANT NOTE:

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Appendix B - IC Interference Statement

Industry Canada Statement

This device complies with RSS-247 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.



Caution:

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.
- (iii) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.



Avertissement:

- (i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- (ii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.
- (iii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

FOR MOBILE DEVICE USAGE

Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

Pour l'utilisation de dispositifs mobiles)

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

Appendix C - CE Interference Statement

Europe – EU Declaration of Conformity

This device complies with Directive 2014/53/EU issued by the Commission of the European Community.

- Declaration of Conformity

Please added certification standard in your user manual which depended on the test standards your device performed. or

- If the DoC should be a simplified version, please take below as reference –

Hereby, EnGenius Networks declares that the EWS357AP v3 is compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

The frequency and maximum transmitted power in EU are listed as belows,

Devices	2412 - 2472 MHz	5180 - 5240 MHz	5260 - 5230 MHz	5500 - 5700 MHz
EWS357AP v3	3.5dBi	4.5~4.6dBi	NA	NA

Importer: EnGenius Networks Europe B.V.

Importer Address: ESP 240, 5633 AC Eindhoven, The Netherlands

Manufacturer : EnGenius Networks. Inc.

Manufacturer Address: No.500, Fusing 3rd Rd., Hwa-Ya Technology Park Kuei-Shan Dist., Taoyuan City, Taiwan (R.O.C.)

CE DoC Link: <https://www.engeniusnetworks.eu/ens500ext-ac-ens500-ac-enstation5-accedoc>

附錄

低功率電波輻射性電機管理辦法

第十二條

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

1. 使用此產品時應避免影響附近雷達系統之操作。