

Business Solutions

User Manual

EnStationACv2/EnStation5-ACv2/ENS500-ACv2/ENS500EXT-ACv2

AC867 5GHz Outdoor Long Range Wireless 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 IEEE802.11ac/a/n wireless standards with up to 867 Mbps data rate.

•Internal 15.5dBi high gain directional antenna(EnStation5-ACv2/EnStationACv2);Internal 13.42dBi high gain directional antenna(ENS500-ACv2);

- External 5.17dBi dipole antenna(ENS500EXT-ACv2)
- ENS500EXT-ACv2/ENS500-ACv2/EnStation5-ACv2 Can be used with included 24V PoE adapter
- •EnStationACv2 Can be used with included 54V PoE adapter
- Secured Guest Network option available
- Advanced 256-QAM technology to achieve optimal performance throughout ultra-long distance

Introduction

The EnStation5-ACv2/EnStationACv2/ENS500-ACv2/ ENS500EXT-ACv2 is a high-powered, ultra long-range 2x2 Wireless 802.11ac/a/n Outdoor Access Point with speeds up to 867 Mbps on both its high-powered 5 GHz radios. Builded in EnGenius EnJet solution, AP can transmit data more efficiently, avoid collisions, and reduce latency and packet losses. It can be configured as an: Access Point, Client Bridge or WDS (AP & Station) when EnJet enable, or Access Point, Client Bridge or WDS (AP, Station & Bridge) when EnJet disable. The EnStation5-ACv2/EnStationACv2/



ENS500-ACv2/ETD500EXT

EnGeniu

ENS500-ACv2/ENS500EXT-ACv2 is designed to operate in a variety of outdoor environments. Its high-powered, longrange 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 EnStation5-

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 © 2018 EnGenius Technologies, Inc. All rights reserved.

ACv2/EnStationACv2/ENS500-ACv2/ENS500EXT-ACv2 supports the 5 GHz frequency band for communicating to other 5GHz frequency bands Access Points concurrently. Several EnStation5-ACv2/EnStationACv2/ENS500-ACv2/ ENS500EXT-ACv2s can be networked in a campus setting using the 5 GHz band between countries, which is easy to be installed in virtually any location with its included PoE (Power over Ethernet) Adapter for quick outdoor installation. The EnStation5-ACv2/EnStationACv2/ ENS500-ACv2/ENS500EXT-ACv2 enables network administrators to control its transmit power and features settings for selecting VHT80 bandwidth to perform ture AC transmission. When EnJet enable, administrators can adjust the AP time slot and Station Priority to maximize transmission efficiency. It also supports wireless encryption including Wi-Fi Protected Access (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, 10), Mac OS, or Linux-based operating systems
- Web-Browsing Application (i.e.: Internet Explorer, Firefox, Safari, or another similar browser application)

Package Contents

The EnStation5-ACv2/EnStationACv2 package contains the following items:*

- EnStation5-ACv2/EnStationACv2 Customer PremisesEquipment
- EnStation5-ACv2 with PoE Adapter EPA2406GR/EnStationACv2 with PoE Adapter EPA5006GR
- Power Cord
- Pole MountStrap
- 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):

The ENS500-ACv2/ENS500EXT-ACv2 package contains the following items:*

- ENS500-ACv2/ENS500EXT-ACv2
- 5GHz Detachable Antennas*2 (ENS500EXT-ACv2)
- PoE Adapter(EPA2406GR)
- Power Cord
- Pole MountStrap
- Wall Mount Screw Set
- Quick Installation Guide
- *(all items must be in package to issue a refund):

Technical Specifications

Standard: IEEE802.11ac wave2/a/n on 5 GHz

Antenna

Internal 15.5dBi high gain directional antenna (EnStation5-ACv2/ EnStationACv2) Internal 13.42dBi high gain directional antenna (ENS500-ACv2)

External 2*5.17dBi detachable antenna (ENS500EXT-ACv2)

Physical Interface

2 x 10/100/1000 Gigabit Ethernet Port with PoE support EnStation5-ACv2/EnStationACv2 LAN(PoE) Port supports 24V/54V PoE Input

LED Indicator Power LAN 1 LAN 2 WLAN WLAN LED (Weak, Medium, Strong)

Power Requirements EnStation5-ACv2/EnStationACv2 Include PoE Adapter, 24V 0.6A/54V 0.6A

Operation Modes-EnJetenable

Access Point Client Bridge WDS AP WDS Station

Operation Modes-EnJet disable

Access Point Client Bridge WDS AP

WDS Bridge WDS Station

Optimal Performance Distance Control (Ack Timeout) Multicast Supported Data Rate Selection Auto Channel Selection BSSID Support AP Time Slot Station Priority

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 (PerSSID)

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 WPA2 Enterprise Hide SSID in beacons MAC address filtering, up to 32 MACs per SSID Wireless STA (Client) connection list Https Support SSH Support

QoS (Quality of Service) Complaint with IEEE 802.11e standard

Physical/Environment Conditions Operating:

Temperature: -20 °Cto 60 °C(-4 °F to 140 °F) Humidity (non-condensing): 90% or less

Storage:

Temperature: -30 °Cto 80 °C(-22 °Fto 176°F) Humidity (non-condensing): 90% or less

Physical Interface-EnStation5-ACv2/EnStationACv2

Dimensions and Weights

EnStation5-ACv2/EnStationACv2 Dimension: 190mm (7.48") Height: 38mm (1.9") Weight: 527g (1.16lbs)

- $1\,$ WLAN Signal LED: Applied on Client Bridge/WDS
- (1) Red: Weak Signal: Connecting quality isbad.
- (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: Gigabit Ethernet port for RJ-45 cable.
- 6 LAN Port 2: Gigabit Ethernet port for RJ-45 cable.





Physical Interface -ENS500-ACv2/ENS500EXT-ACv2

Dimensions Length: 186 mm(7.32") Width: 100 (3.94") Depth: 29mm (1.14")

- 1 5 GHz Antennas Detachable 5 dBi 5 GHz Omni-directional Antennas (ENS500EXT-ACv2 Only)
- 2 LAN Port 1 (Proprietary 24V PoE): Ethernet port for RJ-45 cable.
- 3 LAN Port 2 : Ethernet port for RJ-45 cable.
- 4 LED Indicators: LED lights for Power, LAN Port 1, LAN Port 2, 2.4 GHz Connection and 5 GHz Connection.
- 5 Mounting Holes: Using the provided hardware, the AP can be attached to a wall or pole.

*The installation angle of antenna must be vertical to the ground.



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



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



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. RightdickonLocalAreaConnectionandselectProperties.



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

etworking -	Shamg				
Connect us	ng				
🔮 istei	R) 82578D	C Gigabit Ne	twork Conne	ction	
This come	tion uses t	he following	terra:	Configure	
	S Packet S and Printe emet Proto K-Layer To k-Layer To	Scheduler in Sharing for coll Version 6 pology Discr pology Discr	Mcrosoft N 5 (TCP/IPv6) overy Mappe overy Respon	etworks r VO Driver nder	
insta	Laisens.	. Units	tai 🚺	Properties	
	n			De la	

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

PCIPaddress: 192.168.1.2-192.168.1.255

PC Subnet mask: 255.255.255.0

ou can get IP settings assigne	ed automatically if your network supports
r the appropriate IP settings	,
🚊 Qotain an IP address auto	omatically
a)ge the following 19 addr	essi
IP address;	192 . 168 . 1 . 10
Sybret mask:	255 . 255 . 255 . 0
Default gateway:	3 3 3
🕐 Olgtain DNS server addres	ss automatically
Use the following DNS ser	ver addresses:
Preferred DNS server:	
Alternate DNS server:	12 B 54
🔣 Vajidate settings upon en	ot Advanced

Apple Mac OSX

- 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, selectManually.
- 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: ENH900EXT IP address: 192.168.1.1

PCIPaddress: 192.168.1.2-192.168.1.255

PC Subnet mask: 255.255.255.0

6. Click Apply when done.

Le	cation: Automatic		
Distant Constant FireWise Nat Connected	Status	Connected Observet is connectly active and has the address 197, 168, L.100.	÷
	Configure IPv4:	ManuaBy	4
	IP Address:	192.168.1.100	
	Subnet Mask	255 255 255 0	
	Router:		
	DNS Server:		
	Search Domains:		
		Cathonree	

Hardware Installation EnStation5-ACv2/EnStationACv2

- 1. Remove the rear bottompanel.
- 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 EnStationACv2 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 EnStationACv2 can supply the 802.3af power source when used with included PoE Adapter.



Mounting the EnStation5-ACv2/EnStationACv2

Using the provided hardware, the EnStation5-ACv2 can be attached to a wall or a pole.

1. ETD





3. Bracket

4. Pole Mounting Strap







5. Screw SetKit













Wall mounting the EnStation5-ACv2/

EnStationACv2

- 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 t he 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 secrue the bracket in the place.



Pole mounting the EnStation5-ACv2/

EnStationACv2

- 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 t he 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







Hardware Installation ENS500-ACv2/ENS500EXT-ACv2

- Connect one end of the Ethernet cable into the LAN port (PoE) of the AP/ Bridge and the other end to the PoE port on the PoE adapter.
- 2. Connect the 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 the PoE adapter and the other end to the Ethernet port on the computer.
- 4. Screw on the provided antennas to the top of this device.

Note: The AP/Bridge should ONLY be powered via Ethernet cable connected to the included PoE Adapter. This diagram depicts the hardware configuration.



Note: The AP/Bridge should ONLY be powered via Ethernet cable connected to the included PoE Adapter.

Mounting the ENS500-ACv2/ENS500EXT-ACv2

Using the provided hardware, the ENS202EXT can be attached to a wall or a pole. The height should not exceed 2 meter.

1. Wall MountingKit

(Anchors: Φ 5.5*18mm&Bolts: Φ 8*25mm)

2. Pole Mounting Strap $(\Phi 66*12.6 \text{ mm})$





To attach the ENS500-ACv2/ENS500EXT-ACv2 to a wall using wall mounting kit.

- A. Determine where the Access Point to be placed and stick the Adhesive label on the surface.
- B. Use the appropriate drill bit to drill two 8.1mm diagram and 26mm depth holes on the markings of the label.
- C. Remove the label and screw the anchors unto the holes until they are flush with the wall.
- D. Screw the included screws into the anchors. Place the Access Point against wall with the mounting screw heads.



To attach the ENS500EXT-ACv2 to a pole using the provided pole mounting kit:

- A. Thread the open end of the Pole Strap through the two tabs on the Pole Mount Bracket.
- B.Lock and tighten Pole Strap to secure Pole Mount 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 <u>http://192.168.1.1</u>



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 name will be varied by different models

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

	Device Womation		
Converting Converting Converting Converting Part Part Part Converting Convere	Device Teams IRIC Address - (AR - CAR - Orientees LAN - NGPS County Constru- County Co	ENDFATIONAG MEDIC DE 3A NA DB MEDIC DE 3A NA DB	
A System Managet Account Permany Log	6 Address Submit Mass Gebreau Prinary DNE Decid Casel Decid Casel	542, 948, 5, 1 256, 256, 258 J 922, 948, 5, 1 6, 6, 6 6, 6, 6 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

Chapter 4 Building a Wireless Network



Before starting to configure this Access Point, you may realize the used scenario under varied operating modes. The EnStation5-ACv2/EnStationACv2/ENS500-ACv2/ENS500EXT-ACv2 is built in EnGenius EnJet solution, AP can transmit data more efficiently, avoid collisions, and reduce latency and packet losses. When EnJet enable, it can be configured as an: Access Point, Client Bridge or WDS (AP & Station) or Access Point, Client Bridge or WDS (AP, Station & Bridge) when EnJet disable. This chapter describes purpose of different operating modes and lists down the operating modes for outdoor Access Points or Client Premise Equipments (CPE).

Access Point Mode

In Access Point Mode, AP/CPE behaves likes a central connection for stations or clients that support IEEE 802.11ac/a/n networks. The stations and clients must be configured to use the same SSID (Service Set Identifier) and security password to associate with the EnStationAC. The EnStationAC supports up to eight (8) SSIDs per band at the same time for secure access.



Client Bridge Mode

The AP/CPE essentially acts as a wireless adapter that connects to an access point to allow a system of wireless access to the network in the Client Bridge mode. Since the computers are on the same subnet, the AP/CPE can broadcast to reach all end-devices.

If you use the client bridge mode in the AP/CPE, you can use the AP Detection feature to scan for Access Points within range. When you find an Access Point, configure the AP/CPE to use the same SSID and Security Password as the Access Point to associate with it.



WDS AP Mode

The AP/CPE also supports WDS AP mode. This operating mode allows wireless connections to the AP/CPE using WDS technology. In this mode, configure the MAC addresses in both Access Points to enlarge the wireless area by enabling WDS Link settings. WDS supports up to four (4) AP MAC addresses.



WDS Bridge Mode

In WDS Bridge Mode, the AP/CPE can wirelessly connect different LANs by configuring the MAC address and security settings of each AP/CPE device. Use this mode when two wired LANs located a small distance apart want to communicate with each other. The best solution is to use the AP/CPE to wirelessly connect two wired LANs, as shown in the following diagram.

WDS Bridge Mode can establish up to four WDS links, creating a star-like network.

Note: WDS Bridge Mode does not act as an Access Point. Access Points linked by WDS are using the same frequency channel. More Access Points connected together may lower throughput.



WDS Bridge-

WDS Station Mode

Station mode expands the WDS by receiving a wireless signal/service and sharing it through the Ethernet port.



Chapter 5 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.



*The model name will be varied by different models.

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	EN5620EXT	
MAC Address		
- LANI	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 - SGHz	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 model name will be varied by different models.

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

Memory Information

Total Available	(REMARK NO.) (REMINE IN (Sec.)]	
Free	105353 km/ 236336 km (46%)	
Cached	(EBH068 KB / 206336 KB (10%)	
Buffered	[[HI24 K6 / 200336 k8 (2%)]]	

• The LAN Information section shows the Local Area Network settings such as the LAN IP Address, Subnet

IF Address	192 166 1 1	
Submet Mask	255 255 255 0	
Gateway	192 166 1.1	
Primery DNS	6060	
Secondary DNS	0000	
DHCP Client	Disable	
Spanning Tree Protocol (STP)	Desacilio	

 The Wireless LAN Information 5 GHz section shows wireless information such as Operating Mode, Frequency, and Channel. Since the AP/CPE 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.

Operation	Mode	Alt.			
Wastesh N	lode	102.11 AN			
Channel D	andwidth	40.59-0			
Channel		5.66 CHiz (Chennel 130)			
Distance .		1000 M			
Profile	550		Security	100	802.50
#1	EnGenus060C67_15Getr		Norm	54	Crisable
42	EnGenus063097_2-50Hz		None	52	Deable
#3	EnGenue063CW_3-5GHg		None	53	Disable
44	EnGenus063C67_4-5GHz		Nono	54	Disable
45	EnGenus063C87_5-5GHz		None	55	Deadole
ad.	EnGenui063C87_6-56Ftr		Nono	56	Disable
17.	EnGenus063Cti/_7-5GHz		None	52	Disable
et.	EnGenus063C97 8-5GHz		Noria	56	Onative

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

SSD	MAC	FOO(Packets)	TX(Packets)
themet	00:02:6F FF:FF:FF	75 57KD(056 P90h)	455 926KB(399 PKts.)
nGenes063C96_1.2.4GHz	88 DC 90 06 3C 96	OKRE(CIPROS.)	0 792KB(4 PMb.)
nGenius063C97_1-5GHz	60.DC 96:06:3C 97	OKD(0 PKts.)	OKEVO PROs 3

Connection

5 GHz Connection List

Click the connection link under the Overview menu displays the connection list of clients associated to the AP/CPE'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 WDSAP and WDS Bridge modes.

Concession for the second	and a state of the					
Office plane	590	MAC ADDRes	TK	101	P0.01	(Sinch
Drynectrone	EnGenue3A5A08_1-50Hz	\$x112.70.80 C2.37	. 540.	183	-3009m	Kick
Referral R						
lueit:						
Firelasia	and the second se					
Aunopoment	and the second sec					
dvariced -						
ine Ine						
NPI Scheduler						
tuosi.						
ystem Manager						
frugo:						

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: 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 IPSettings

IPv4/IPv6 Settings

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

IP Network Setting	Static #[+]
IP Address	102 108 1 1
Subnet Mask	255 255 255 0
Galeway	102 168.1.1
Primary ONS	0000
Secondary DNS	0.000
IPv6 Settings	Link-local Address
IP Address	and the second second second
Subret Prefix Length	
Gateway	
Primary DNS	
Exception Pale	

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.

Status	Desable •		
Helo Time	2	seconds (1-10)	
Max Age	20	seconds (6-40)	
Forward Delay	4	seconds (4-30)	
Priority	32768	(0-05526)	

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 7 Wireless



Wireless

Wireless Settings

 Wireless Settings

 Device Name

 EnStation5-AC

 Country / Region

*The model name will be varied by different models.

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.

EnJet

The AP/CPE is default EnJet enable. When enable the EnGenius EnJet system, the AP/CPE can then transmit data more efficiently, avoid collisions, and reduce latency and packet losses. (If you do not enable EnJet, data will be sent via traditional CSMA.)

Disable * Enable

This page displays the current status of the Wireless settings of the AP/CPE.

Wireless Network

EnStation5-ACv2/EnStationACv2/ENS500-ACv2/ ENS500EXT-ACv2 Wireless: The AP/CPE supports 802.11ac/n mixed mode in 5 GHz.

	5GHz	-802 11 A	C/P	4	
Operation Mode	Access	s Point	۲	Ø Green Ø	
Channel HT Mode	40MHz	6 - S	۲		
Channel	Config	puration			
Transmit Power	Auto	- A	Ý		
Bit RateO	Config	uration			
Client Limits 0	127	= Enat	910	Disable	
AP Detection	Scan				
Distance (0-30km)	1	(0.6mile	\$)		
AP Time Stot	Auto		•		
Station Priority@	High	3	۲		

Operation Mode: Select Operation Mode. When EnJet enable, The AP/CPE can be seted as Access Point, Client Bridge or WDS (AP & Station) or Access Point, Client Bridge or WDS (AP, Station & Bridge) when EnJet disable.

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

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

None
U-NII-2A
U-NII-3
Ch 40 : 5.200 GHz
Ch 48 : 5.240 GHz
Ch 56 : 5.280 GHz
Ch 64 : 5.320 GHz
Ch104 : 5.520 GHz
Ch112 : 5,560 GHz
Ch136 : 5 680 GHz
Ch153 : 5,765 GH2
Ch161 : 5.805 GHz

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

Bit Rate: 5GHz is default 6 Mbps, the range can control by BAR via scroll from 6Mbps to 54Mbps.

Client Limits: When EnJet enable, limits the total number of clients. Once setting the ceiling of client numbers, the maximum assocaited client devices will be restricted at this number.

AP Detection: AP Detection can select the best channel to

service.

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.

AP Time Slot:In EnJet mode, the AP will assign time slots for each client's data transmission. The larger the slot, the faster the datatransmission.

Station Priority: In EnJet mode, the client bridge/WDS station's data transmission is prioritized by data. High level means a longer transmission time. (The time ratio is 10:5:1.)

Wireless Setting-5GHz

Current Profile: You can configure up to seven(7) different SSIDs when EnJet disable or 1 SSID when EnJet enable. 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 Profile when EnJet disable

Wireless Settings - 5GHz

No	Enable	5510	. tide	Security	Suppressed 190	Station Separation	holidon	VID	
1	N.	EnGenka063G97_1-5GHz	8:58	None	(1)	111	123	51	
2	±1	EnGenasi663G97_3.6GHz	Edd	Note	12	. 63	63	52	
3	13	EnGenad063097_3-50Hr	Edd.	None	77	13	17	53	
4	13	EnGenus063C97_4-5GHz	- Ride -	None	(15	101	en.	54	
6	10	EnGerma063G97_5.5GHz	EGM	None	10	101	11	55	
e	10	En:Deman063097_8-50Hz	Edit	None	13	10	03	56	
7	10	EnGenius063C97_7-5GHz	Edit	None	10 ×	17	65	57	

SSID Profile when EnJet enable

Wireless	Settings - 5GHz							
Purpose	SSID	Edit	Security	Hidden SSID	Client Isolation	VLAN Isolation	L2 Isolation	VLAN ID
TOMA	EnGenus709060_1-5QHz	Eat	None	-10	8	в	в	54

Management Interface: This Management interface make you can to get on and change the configuration of the device from remote instead of using the GUI.

Manage	ment interface							
Purpose	550	Edit	Security	Hidden SSID	Client Isolation	VLAN Isolution	L2 holeton	VLAN ID
ж.	En.Jul709050	Edt	WPA2/PSK AES			11		59

Enable: Click this check box to enable this SSID interface. The default SSIDs are enable on the first 5GHz SSID.

SSID: Specifies the SSID for the current profile.

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

Client Isolation: Click the appropriate radio button to enable this function for allowing or preventing communication between client devices.

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

L2 Isolation: Enable this function prevenet client devices to communicate on the both WLAN and LAN.

VLAN ID: Specifies the VLAN tag for each profile. If your netowrk 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.

Save: Click Save to accept the changes.

Wireless Security

The Wireless Security section lets you configure the AP's security modes

Wireless Security - 5GHz		
Security Mode	WPA-PSK	٠
Encryption	AES	•
Passphrase		
Group Key Update Interval	3600	

Secuirty Mode: Including WPA2-PSK, WPA2-Enterprise. We strongly recommend you to use WPA2-PSK mode.

Wreless Security			
Security Mode	WPA2-Enterprise	٠	
Encryption	AEIS	÷.	
Group Key Update Interval	9600		(30~5600; 0:Disable)
Radius Server	192,165,100.36		
Radius Port	1812		
Radius Secret	1234567890123456789012	545	

Encryption: Default is AES.Please ensure that your wireless clients use the same settings.

Group Key Update Interval: Specifies how often, in

seconds, the Group Key changes. The default value is 3600

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

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

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

Radius Settings

NAS-ID: Enable or disable accounting feature.

NAS-Port: Enable or disable accounting feature.

NAS-IP: Enable or disable accounting feature.

Radius Accounting

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.

Note: 802.11n does not allow WPA2-PSK TKIP security mode. The connection mode will automatically change from 802.11n to 802.11g.

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

Fast Roaming		
Enable Fast Roaming	Enable	Disable

Please enter the settings of the SSID and initialize the Security mode to WPA2 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.

Wireless MACFiltering

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 the AP/CPE. The default setting is: Disable Wireless MAC Filter.

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

Wireless MAC Filter								
ACL Mode	Disabled	٠						
			Add					
á.	MAC Address							

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 Traffic Shaping

Traffic shaping regulates the flow of packets leaving an interface to deliver improved Quality of Service. The function will allow administrators to restrict the wireless bandwidth per SSID.



Enable Traffic Shaping: Check this option to enable Wireless Traffic Shaping.

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

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

Save: Click Save to confirm the changes.

Guest Network Settings

Adding a guest network when EnJet disable 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 5 GHz ac/a/n

Guest	Network Settings					
Enable	SSID	Edit		Security	Hidden SSID	Client Isolation
6	EnGenius-6GHz_GuestNatwork	Ent	None			
Manual	IP Settings					
-⊮A	ddress	192	168 200.1			
- Sub	net Mask	258	256 255 6			
Automa	tic DHCP Server Settings					
- 5ta	ting IP Address	192	168 200 100	2		
+ End	ing IP Address	+92	168 200 200	2		
- With	(S Server IP	0.0	0.0			

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

the addresses by the DHCP server.

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

RSSI Threshold

Status	Enable Disable	
RSSI	-85 dBm (Range: -60dBm ~ -100dBm)

RSSI Threshold: Enable the Fast Handover feature when EnJet disable by ensuring that each client is served by at least one Access Point at any time. Access Points continuously monitor the connectivity quality of any client in their range and efficiently share this information with other Access Points in the vincinity of that client to coordinate which of them should serve the client best.

RSSI: Enter the RSSI (Received Signal Strength Index) in order to determine the handover procedure which the current wireless link will terminate. RSSI is an indication of the power level being received by the antenna. Therefore, the higher the RSSI number, the stronger the signal.

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 and WDS AP modes.

Management VLAN Settings

CAUTION: If you reconfigure the Management VLANID, you may kee connectivity to the access point. Verify that the switch and DHCP server can support the reconfigured VLANID, and then its connectivity to the new IP address. Management VLAN Enable 4099 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 the EnStationAC. Verify that the DHCP server supports the reconfigured VLAN ID and then reconnect to the EnStationAC using the new IP address.

Chapter 8 Management



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.

anne- aeringe			
Status	Enables		
Contact			
Location			
Port	161		
Community Name (Read Only)	public;		
Community Name (Read Write)	private		
Trap Destination			
Port	162		
- IP Address			
- Contributinity Name	public		
SNMPV3 Settings			
Status	Enable.+		
Username	adron	(1.31 Characters)	
- Authorized Protocol	MD6 +		
- Authorized Key	12345678	(8-32 Characters)	
- Protocol	DES		
Privato Kay	12345678	(5.32 Characters)	
Engine 10	and the second sec	A DESCRIPTION OF A DESC	

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: MDS 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

CLI Setting		
au	Ecuble .	8
2221.01		
SSH Setting		
SSH	Deable n	
HTTPS Setting		
HITEPS	Evantile (*)	
HTTPS forward	Disable 🗟	

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

- Example	A LINDOW		
- No			
Subject	II mail AlortE N 600	IXTEGO OZ GE FE FE FE C	onte
mel Account		Constant Section of	0032
Userwarne			
- Password			
- SMTP Server		Port 25	
Security Mode	None 🔄		Send Test Mail

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

To: Enter the address that you wish to send emails to.

Subject: Enter the text that you wish to appear in the email's 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.

Security Mode: Selects the security mode: SSL/TLS or STARTTLS or None.

Apply: To save setting and take effect.

Time Zone

Time Setting

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

mate and rule seconds		
0. Manually Set Date and Time		
Date: 2013 / 00 / 25		
Tima 08 10 (24-Hour)		
Synchronize with PC		
Automatically Get Date and Time		
NTP Server: (209,01.9.7		
NTP Server, 206 01 9 7		
Time Zone		
Time Zone Time Zone UTC+00.00 Gambia, Liberta, Morocco		
Time Zone Time Zone Time Zone UTC+00.00 Canibia, Liberta, Morocco	۵	
Time Zone Time Zone Time Zone UTC+00.00 Cambia, Liberta, Morocco E Enable Daylight Saving Start January - Into- Sure 12 amo	۵	

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

Automatically Get Date and Time: Select 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.

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

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

End: Select the day, month, and time when daylight savings times ends.

Auto RebootSettings

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



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

Frequency of Auto Reboot: Specifies how often you wish to reboot the EnStationAC by Min, Hour, Day or Week.

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.

WiFi Scheduler							
Status	Enable # D NOTE: Please # Wi-Fi Scheduler	isable Issure that the	Time Z	one Setting	in synce	d with your I	ocal time when enabling the
Wreless Radio	alles and a second						
SSID Selection	Englehus3A6A	1-50Hz +					
Schedule Templates	Choose a templ	ate					
	Day	Availabilit	¢.	Durati	on		
	Sunday	systeme	1	00	: 00	= 24	. 00
	Monday	available	+	00	00	= 24	00
Schedule Table	Tuesday	evalutie	3 - E	00	.00	- 24	00
	Wednesday	available		90	00	- 24	00
	Thursday	available		00	00	- 24	: 00
	Friday	available		00	00	= 24	00
	Saturday	evalutile	- 24	00	00	- 24	00

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

Wireless Radio: Select 2.4 GHz or 5 GHz from the dropdown 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 EnStationAC and trace the routing table to a target in the network.

Ping Test Parameters			
Targot IP / Domain Name Ping Packet Size Number of Pings Start	64 4	Bytes	

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.

Traceroute Test Parameter

Target IP / Doman Name	
[[_518/T]] [5809];;	

Target IP: Enter the IP address you would like to trace

Nslookup Test Parameter

Target IP/Domain Name: Enter the IP address or domain name you wish to do Nslookup test.

Speed Test Parameters

Speed Test Parameters

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

Target IP / Domain Name: Enter an IP address or domain name you wish to impelement 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 60001 port for the speed test.

Start: Click start to implement speed test.

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	Finnware Versio
Scan				

Account

This page allows you to change the EnStationAC 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

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 EnStationAC.

- ILUMATE	upgrade			
Oursent First	meane Version 2.0.0			
Solect the r	new fernware from your	r hard disk.		
Browse.	No Me selected			
Upload	Contraction and			

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

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 defaultsettings.

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			

User Setting

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

System Log	
Status	* Enable 🔍 Disable
Log type	All +
Reflesh Clear	Aug 25 01:00:05 EnflationAC user notice root: starting ripilent Aug 25 01:00:05 01 EnflationAC user notice root: starting ripilent Aug 25 01:07:05 EnflationAC user notice root: starting ripilent Aug 25 01:07:05 EnflationAC user notice root: starting ripilent Aug 25 01:07:05 EnflationAC user notice root: starting ripilent Aug 25 01:00:05 EnflationAC user notice root: starting ripilent

Remote Log

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

Renote Log	Disabiu
Log Server IP Address	0.0.0.0

Syslog: Enables or disables the syslog function.

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

Remote Log: Enable or disable the remote log service.

Apply: Click Apply to apply the changes.

Status: Enable/Disable this function.

TraficLog: 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.

ALL	
Debug	
Information	
Notice	
Warning	
Error	
Critical	
Alert	
Emergency	

Logout

Click Logout in Management menu to logout.

chGenius			1000 and	201	-
NSTATIONAC	Single Radio Outdoor AP , 172R , #67Mbps		Changes : 2	Reset	Lopeut
Overview	Device Information				
Denice Status Connections	Device Name	EVISTATIONAG			
Network ()	-LAN	0000007777777			
Batic	- Windows LAN - SGHz	00124747979			
Wrates.	Courty	USA			
Munapement	Current Local Time	Tue Aug 11 12 48 21	UTC 2018		
Abancer	Familiare Version	20.39			
Trive Zone	Management VLAN ID	Unixoged			
Milli Scheduler					
Taste					
Bystem Manager	LAN Information - IPv4				
Account	# Address	192 168 1.1			
Ferman	Butmet Mass	258 288 298 0			
Leg	Calendar	102,106.1.1			
	Primary DNB	0000			
	Secondary DNS	0.0.0			
	DHOP Client	Osable			

*The model name will be varied by different models.

Please confirm again to logout the system or not.

want to locout?
100 C

Reset

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

ENERATIONNO ···	Berges Rode Subbour Art, 2188, 95746as		Changes 2	Reset	8-hgreet
Conservation Conservation	Converse Industrializer Device Industria LAM Minister (Arthodie) Conversi Land Three Provide Avenue Remote Avenue Minister Avenue Minister (LAM) (C)	Electricity of Colump All Colump of the All of the Occupy of the All of the Column The All of the All of the Column Colu	v10.044		
Antonio Transporte Long	P Adjuste Rated Load Delevery Process (240) Becomes (240) Delevery (240)	Ling York II I Die geld gehi e Feit Seit II B (IIII) B (IIII) B (IIII) B (IIII) B (IIII)			

*The model name will be varied by different models.

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 62.

Reboot the Device

Restore the device to default settings

CAUTION: All settings will be cleared and reset to either factory default or user default. Restore to Factory Defaults

Restore to User Default.

Appendix



Appendix A - FCC Interference Statement

Federal Communication Commission Interference Statement

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.

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



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.

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 a minimum distance of 20 cm between the radiator & your body.

Appendix B - Professional Installation Instruction (FCC)

Installation Personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

Installation Location

The product shall be installed at a location where the radiating antenna can be kept 20 cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

Ex ternal Antenna

Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC limit and is prohibited.

Installation Procedure

Please refer to user's manual for the detail.



Warning:

Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

Appendix C-ICInterference 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.

Cedispositifest conforme à la norme CNR-247 d'Industrie Canada applicable auxappareils radio exempts delicence. Sonfonctionnement 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:



where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.



Avertissement:

lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3, doivent être clairement indiqués.

IMPORTANT NOTE: 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 minimum distance 20cm between the radiator & your body.

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.

Radiation Exposure Statement:

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

Déclaration d'exposition aux radiations:

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

DETACHABLE ANTENNA USAGE

This radio transmitter (IC: 10103A-ENSTA5-ACV2 / Model: EnStation5-ACv2, ENS500EXT-ACv2, ENS500-ACv2, EAS100- 14, EAS100EXT, EAS100-19) has been approved by ISED to operate with the antenna type listed below with maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 10103A-ENSTA5-ACV2/ Model: EnStation5-ACv2, ENS500EXT-ACv2, ENS500-ACv2, EAS100-14, EAS100EXT, EAS100-19) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Approved antenna(s) list EnStation5-ACv2, ENS500EXT-ACv2, ENS500-ACv2 EAS100-14, EAS100EXT, EAS100-19

No.	Type	Connector	V /	Gain	(dBi)		Remark
1 Patch	INTY	Ant. 1 (5150-5850MHz)		Ant. 2 (5150-5850MHz)		For Model: ENS500-ACv2	
	Patch	atch I-PEA	13.35	0. 22-1		13.42	and EAS100-14 use only
2 Dipole	RSMA	5150MHz	5550	MHz	5850MHz	For Model:	
		5.12	5.	09	5.17	EAS100EXT-ACV2 and EAS100EXT use only	
3 Patch	LBEV	Ant. 1 (5150-592	25MHz)	Ant. 2 (5150-5925MHz)		For Model: EnStation5-ACv2	
	PPEX	15.5		0.000	15.5	and EAS100-19 use only	

Appendix D Professional installation instruction (IC)

1. Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 20cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

3. External antenna

Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of ISED limit and is prohibited.

4. Installation procedure Please refer to user's manual for the detail.

5.Warning

Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

1.Installation

Ce produit est destine a un usage specifique et doit etre installe par un personnel qualifie maitrisant les radiofrequences et les regles s'y rapportant. L'installation et les reglages ne doivent pas etre modifies par l'utilisateur final.

2. Emplacement d'installation

En usage normal, afin de respecter les exigences reglementaires concernant l'exposition aux radiofrequences, ce produit doit etre installe de facon a respecter une distance de 20cm entre l'antenne emettrice et les personnes.

3.Antenn externe.

Utiliser uniiquement les antennes approuvees par le fabricant. L'utilisation d'autres antennes peut conduire a un niveau de rayonnement essentiel ou non essentiel depassant les niveaux limites definis par ISED, ce qui est interdit.

4. Procedure d'installation Consulter le manuel d'utilisation.

5. Avertissement

Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne depasse pas les limites en vigueur. La violation de cette regle peut conduire a de serieuses penalites federales.