

# EnGenius®

11N Multi-Function Access Point

**EAP300**

11N Multi-Function Access Point

V2.0



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**Revision History**

<b>Version</b>	<b>Date</b>	<b>Notes</b>
1.0	2011/06/24	First Release

## 1 Introduction

**EAP300** is a multi-functioned 11n product with 3 major multi-functions, is designed to operate in every working environment for enterprises.

EAP300 is a Wireless Network device that delivers up to 6x faster speeds and 7x extended coverage than 802.11b/g devices. EAP300 supports home network with superior throughput, performance and unparalleled wireless range.

To protect data during wireless transmissions, EAP300 encrypts all wireless transmissions through WEP data encryption and supports WPA/WPA2. Its MAC address filter allows users to select stations with access to connect network. In addition, the function of user isolation protects private network between client users. EAP300 thus is the best product to ensure network safety for enterprises.

### 1.1 Features and Benefits

Features	Benefits
High Speed Data Rate Up to 300Mbps	<b>Capable of handling heavy data payloads such as MPEG video streaming.</b>
10/100 Fast Ethernet	<b>Support up to 100Mbps networking speed.</b>
IEEE 802.11n draft Compliant and backward compatible with 802.11b/g	<b>Fully compatible with IEEE 802.11b/g/n devices.</b>
Multi-Function, 3 functions	<b>Allowing users to select AP, WDS AP or WDS Bridge mode in various applications.</b>
Point-to-point, Point-to-multipoint Wireless Connectivity	<b>Allowing to transfer data from buildings to buildings.</b>
Support Multi-SSID function (4 SSID) in AP mode	<b>Allowing clients to access different networks through a single access point and to assign different policies and functions for each SSID by manager.</b>

WPA2/WPA/ IEEE 802.1x support	<b>Powerful data security.</b>
MAC address filtering in AP mode	<b>Ensuring secure network connection.</b>
User isolation support (AP mode)	<b>Protecting the private network between client users.</b>
Power-over-Ethernet (IEEE802.3af)	<b>Flexible Access Point locations and saving cost.</b>
Keep personal setting	<b>Keeping the latest setting when firmware upgrade.</b>
SNMP Remote Configuration Management	<b>Helping administrators to remotely configure or manage the Access Point easily.</b>
<b>QoS (WMM) support</b>	<b>Enhancing user performance and density.</b>

## 1.2 Package Contents

The package contains the following items. In case of return, please keep the original box set, and the complete box set must be included for full refund.

- EAP300
- 12V/1A 100V~240V Power Adapter
- RJ-45 Ethernet LAN Cable
- CD-ROM with User's Manual
- Quick Guide

## 1.3 System Requirements

The following are the minimum system requirements in order to configure the device.

- Computer with an Ethernet interface or Wireless Network function.
- Windows, Mac OS or Linux based operating systems

- Internet Explorer or Firefox or Safari Web-Browser Software

## 1.4 Applications

The wireless LAN products are easy to install and highly efficient. The following list describes some of the many applications made possible through the power and flexibility of wireless LANs:

**a) Difficult-to-wire environments**

There are many situations where wires cannot be laid easily. Historic buildings, older buildings, open areas and across busy streets make the installation of LANs either impossible or very expensive.

**b) Temporary workgroups**

Consider situations in parks, athletic arenas, exhibition centers, disaster-recovery, temporary offices and construction sites where one wants a temporary WLAN established and removed.

**c) The ability to access real-time information**

Doctors/nurses, point-of-sale employees, and warehouse workers can access real-time information while dealing with patients, serving customers and processing information.

**d) Frequently changed environments**

Show rooms, meeting rooms, retail stores, and manufacturing sites where frequently rearrange the workplace.

**e) Small Office and Home Office (SOHO) networks**

SOHO users need a cost-effective, easy and quick installation of a small network.

**f) Wireless extensions to Ethernet networks**

Network managers in dynamic environments can minimize the overhead caused by moves, extensions to networks, and other changes with wireless LANs.

**g) Wired LAN backup**

Network managers implement wireless LANs to provide backup for mission-critical applications running on wired networks.

**h) Training/Educational facilities**

Training sites at corporations and students at universities use wireless connectivity to ease access to information, information exchanges, and learning.



## 2 Before you Begin

This section will guide you through the installation process. Placement of the ENGENIUS EAP300 is very important to avoid poor signal reception and performance. Avoid placing the device in enclosed spaces such as a closet, cabinet or wardrobe.

### 2.1 Considerations for Wireless Installation

The operating distance of all wireless devices cannot be pre-determined due to a number of unknown obstacles in the environment that the device is deployed. These could be the number, thickness and location of walls, ceilings or other objects that the wireless signals must pass through. Here are some key guidelines to ensure that you have the optimal wireless range.

- Keep the number of walls and ceilings between the EnGenius access point and other network devices to a minimum. Each wall or ceiling can reduce the signal strength; the degradation depends on the building's material.
- Building materials makes a difference. A solid metal door or aluminum studs may have a significant negative effect on range. Locate your wireless devices carefully so the signal can pass through a drywall or open doorways. Materials such as glass, steel, metal, concrete, water (fish tanks), mirrors, file cabinets and brick will also degrade your wireless signal.
- Interferences can also come from your other electrical devices or appliances that generate RF noise. The most usual types are microwaves, or cordless phones.

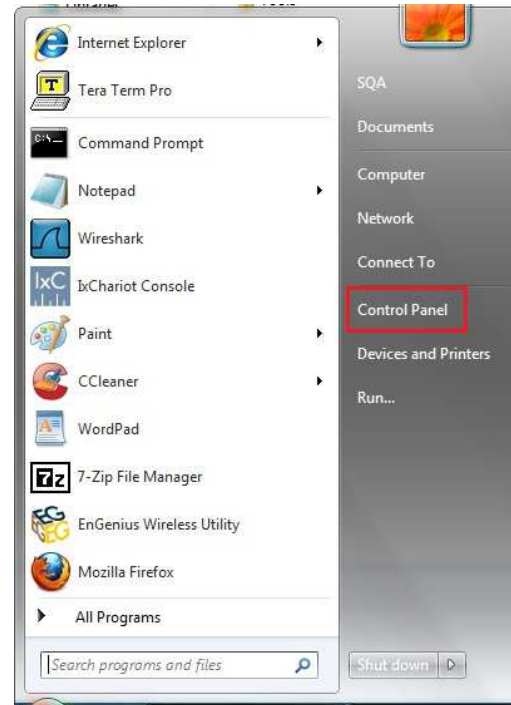
## 2.2 Computer Settings (Windows XP/Windows 7)

This device can be configured as an Access Point, WDS AP or WDS Bridge. The default IP address of the device is **192.168.1.1** (In Access Point Mode as default). In order to log into this device, you must first configure the TCP/IP settings of your PC/Notebook.

- Click Start button and open Control Panel.



Windows XP

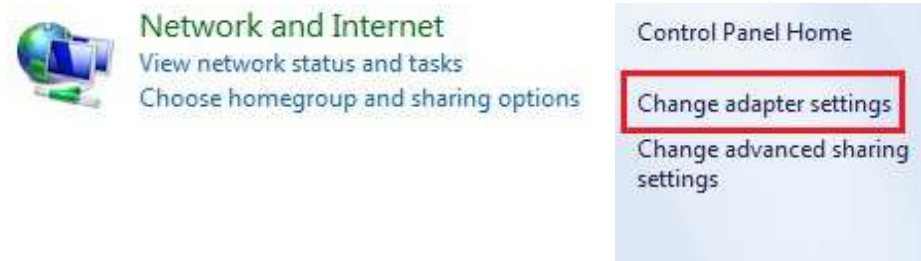


Windows 7

- Windows XP, click [Network Connection]

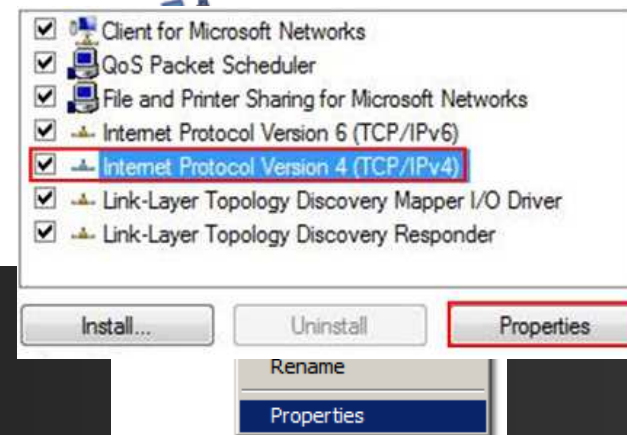


- Windows 7, click [View Network Status and Tasks] then [Change adapter settings]



- Right click on [Local Area Connection] and select [Properties].

- Select “Internet Protocol (TCP/IP)” and click [Properties]



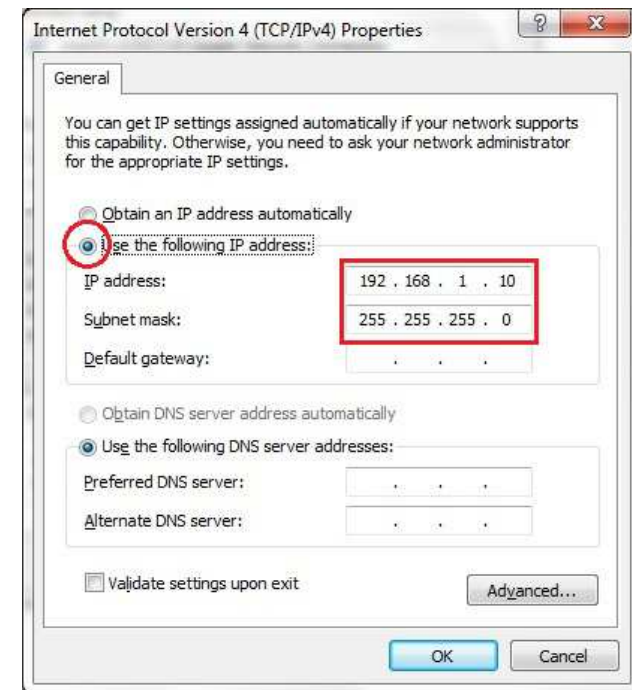
- Select “**Use the following IP address**” and enter IP address and subnet mask then click [OK].

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

For example: Device IP address: 192.168.1.1

PC IP address: 192.168.1.10

PC subnet mask: 255.255.255.0

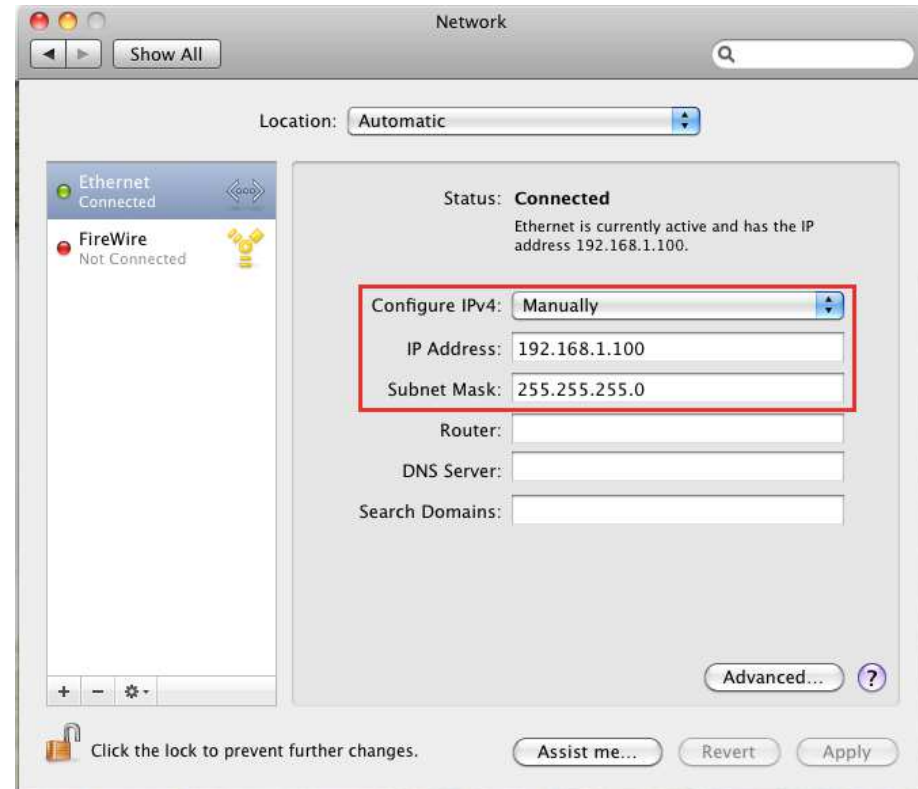


## 2.3 Apple Mac X OS

- Go to **System Preferences > Network**



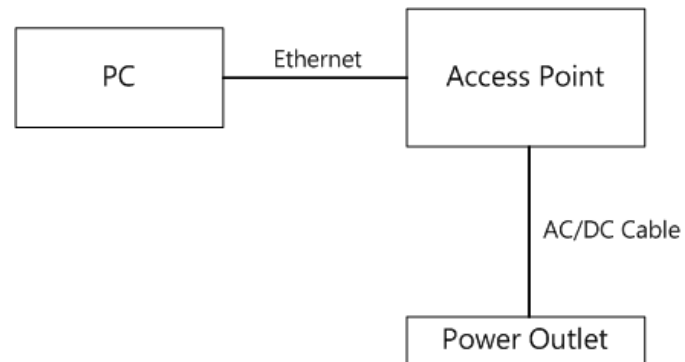
- Under Network setting, select **"Manually"** and enter IP address and subnet mask.
- Click **Apply** when done.



## 2.4 Hardware Installation

1. Place the unit in an appropriate location after conducting a site survey.
2. Plug one end of the Ethernet cable into the Ethernet port of the device and another end into your PC/Notebook.
3. Insert the DC-inlet of the power adapter into the port labeled “DC-IN” and the other end into the power socket on the wall.

This diagram depicts the hardware configuration.



## 3 Configuring Your Access Point

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

### 3.1 Default Settings

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

**Default Settings**

IP Address	192.168.1.1
Username / Password	admin / admin
Operation Mode	Access Point
Wireless SSID	EnGeniusxxxxxx
Wireless Security	None

**Note:** xxxxxx represented in the wireless SSID above is the last 6 characters of your device MAC Address. This can be found on the device body label and is unique for each device.

### 3.2 Web Configuration

- Open a web browser (Internet Explorer/Firefox/Safari) 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.



- 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.

A screenshot of the EnGenius login page. The page has a white background with a light gray border. At the top center, the text "EnGenius" is displayed. Below it, there are two input fields: "Username:" with the text "admin" entered, and "Password:" with five black dots. At the bottom, there are two buttons: "Login" and "Cancel".

- You will see the following webpage if login successfully.



EnGenius® | 2.4GHz Wireless-N Multi-function AP

Access Point Mode

- System
- Wireless
- Network
- Management
- Tools
- Logout

You can use the Status page to monitor the connection status for WLAN/LAN interfaces, firmware and hardware version numbers.

System	
Operation Mode	Access Point
System Time	2009/01/01 00:05:43
System Up Time	5 min 49 sec
Hardware Version	1.0.0
Serial Number	000000001
Kernel Version	1.0.0
Application Version	1.0.0

WLAN Settings	
Channel	11

SSID_1	
ESSID	EnGeniusCC3004
Security	Disable
BSSID	00:AA:BB:CC:30:04

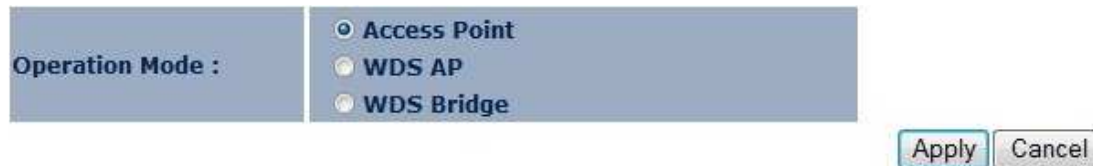
- The navigation drop-down menu on left is divided into seven main sections:

1. **System:** This menu includes the operation mode, status, DHCP, schedule, event log, and monitor. Through this section, you can also change the device operating mode, such as Access Point, WDS AP or WDS Bridge.
2. **Wireless:** This menu includes status, basic, advanced, security, filter, client list and VLAN.
3. **Network:** This menu includes status, LAN and spanning tree.
4. **Management:** This menu includes the admin setup, SNMP, firmware upgrade, save/restore backup and device reset.
5. **Tools:** Displays the time zone, diagnostics and LED control.
6. **Logout:** To logout the system. Need to open up a new browser window in order to login again.

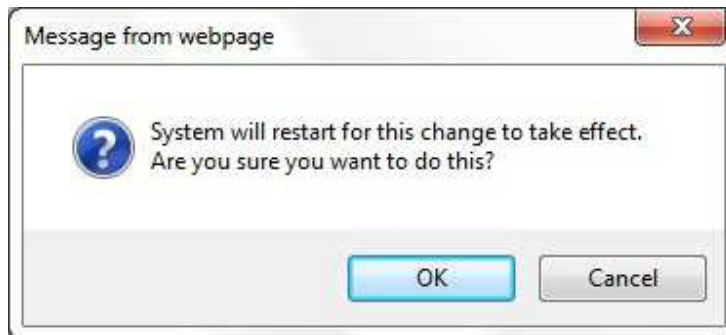
## 4 System

### 4.1 Operation Mode

Each of the operating modes offers different features. In order to switch the operating mode, select it from the System >> Operation Mode. There are three operation modes: Access Point, WDS AP and WDS Bridge.



A dialog box will appear to notify you that the system will restart in order for the change to take effect. Click on the **OK** button to continue.



Please wait while the device counts down and restarts into the new operating mode.

System mode is changed and module is reloading, please wait  seconds.

## 4.2 Status

This page will display status of the device.

### System

Operation Mode Access Point  
 System Time 2009/01/01 00:05:43  
 System Up Time 5 min 49 sec  
 Hardware Version 1.0.0  
 Serial Number 000000001  
 Kernel Version 1.0.0  
 Application Version 1.0.0

System	
<b>Operation Mode</b>	The device is currently in which mode.
<b>System Time</b>	The device's system time. If this is incorrect, please set the time in the Tools / Time page.
<b>System Up Time</b>	The duration about the device has been operating without powering down or reboot.
<b>Hardware Version and Serial Number</b>	Hardware information for this device.
<b>Kernel and Application Version</b>	Firmware information for this device.

<b>WLAN Settings</b>	
Channel	11
<b>SSID_1</b>	
ESSID	EnGeniusCC3004
Security	Disable
BSSID	00:AA:BB:CC:30:04

WLAN Settings	
<b>Channel</b>	The wireless channel in use.
<b>ESSID</b>	The SSID (Network Name) of the wireless network. (up to 4 SSIDs are supported)
<b>Security</b>	Wireless encryption is enabled for this SSID.
<b>BSSID</b>	The MAC address of this SSID.

### 4.3 DHCP

This page shows the status of the DHCP server and also allows you to control how the IP addresses are allocated.

**Note:** Only in Access Point mode.

#### DHCP Client Table :

This DHCP Client Table shows client IP address assigned by the DHCP Server.

IP Address	MAC Address	Expiration Time
192.168.1.10	00:C0:9F:26:64:EE	Forever

Refresh

You can assign an IP address to the specific MAC address.

Enable Static DHCP IP

IP Address	MAC Address
192.168.1.100	80E3A39B703A

Add

Reset

#### Current Static DHCP Table :

NO.	IP Address	MAC Address	Select
1	192.168.1.50	00:24:E8:C7:41:0D	<input type="checkbox"/>

Delete Selected

Delete All

Reset

Apply

Cancel

The DHCP Client Table shows the LAN clients that have been allocated an IP address from the DHCP Server.

#### DHCP Client Table :

This DHCP Client Table shows client IP address assigned by the DHCP Server.

IP Address	MAC Address	Expiration Time
192.168.1.10	00:C0:9F:26:64:EE	Forever

Refresh

DHCP Client Table	
<b>IP address</b>	The LAN IP address of the client.
<b>MAC address</b>	The MAC address of the client's LAN interface.
<b>Expiration Time</b>	The time that the allocated IP address will expire.
<b>Refresh</b>	Click this button to update the DHCP Client Table.

**Enable Static DHCP IP**

IP Address	MAC Address
192.168.1.100	80E3A39B703A

**Current Static DHCP Table :**

NO.	IP Address	MAC Address	Select
1	192.168.1.50	00:24:E8:C7:41:0D	<input type="checkbox"/>

You can also manually specify the IP address that will be allocated to a LAN client by associating the IP address with its MAC address.

Type the IP address you would like to manually assign to a specific MAC address and click **Add** to add the condition to the Static DHCP Table.



## 4.4 Schedule

This page allows you to setup the schedule times that the Wireless Active feature will be activated / deactivated.

Click **Add** to create a Schedule entry.

**Enabled Schedule Table (up to 10)**

NO.	Description	Service	Schedule	Select
1	schedule 01	Wireless Active	From 11:00 To 12:00--- Mon, Wed	<input type="checkbox"/>

Add

Edit

Delete Selected

Delete All

Apply

Cancel

<b>Schedule Description :</b>	<input type="text" value="schedule 01"/>
<b>Service :</b>	<input checked="" type="checkbox"/> Wireless Active
<b>Days :</b>	<input type="checkbox"/> Every Day <input checked="" type="checkbox"/> Mon <input type="checkbox"/> Tue <input checked="" type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat <input type="checkbox"/> Sun
<b>Time of day :</b>	<input type="checkbox"/> All Day (use 24-hour clock) From <input type="text" value="11"/> : <input type="text" value="0"/> To <input type="text" value="12"/> : <input type="text" value="0"/>

Apply

Cancel

Schedule

<b>Schedule Description</b>	Assign a name to the schedule.
<b>Service</b>	The service provides for the schedule.
<b>Days</b>	Define the Days to activate or deactivate the schedule.
<b>Time of day</b>	Define the Time of day to activate or deactivated the schedule. Please use 24-hour clock format.

## 4.5 Event Log

This page displays the system log of the device. When powered down or rebooted, the log will be cleared.

View the system operation information.

```

day 1 00:00:07 [SYSTEM]: WLAN, start LLTD
day 1 00:00:06 [SYSTEM]: TELNETD, start Telnet-cli Server
day 1 00:00:06 [SYSTEM]: HTTPS, start
day 1 00:00:06 [SYSTEM]: HTTP, start
day 1 00:00:05 [SYSTEM]: UPnP, Start
day 1 00:00:05 [SYSTEM]: SNMP, start SNMP server
day 1 00:00:05 [SYSTEM]: SCHEDULE, Wireless Radio On
day 1 00:00:04 [SYSTEM]: NTP, start NTP Client
day 1 00:00:04 [SYSTEM]: DHCP, DHCP Server Stopping
day 1 00:00:03 [SYSTEM]: WLAN[2.4G], Channel = 11
day 1 00:00:03 [SYSTEM]: LAN, IP address=192.168.1.1
day 1 00:00:03 [SYSTEM]: LAN, start
day 1 00:00:01 [SYSTEM]: BR, start
day 1 00:00:01 [SYSTEM]: SYS, Application Version: 1.0.0
day 1 00:00:01 [SYSTEM]: Start Log Message Service!

```

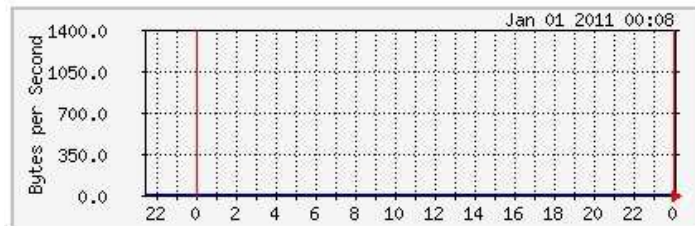
Event Log	
Save	Save the log to a file.
Clear	Clear the log.
Refresh	Update the log.

## 4.6 Monitor

This page shows a histogram of the Ethernet and Wireless LAN traffic. Click on **[Detail]** to get the detail information.

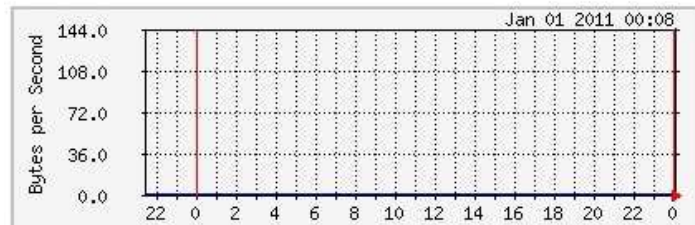
**Ethernet Daily Graph (5 Minute Average)**

[Detail](#)



	Maximum	Average	Current
<b>RX</b>	293 B/sec	293 B/sec	293 B/sec
<b>TX</b>	1365 B/sec	1365 B/sec	1365 B/sec

**WLAN Daily Graph (5 Minute Average)**



	Maximum	Average	Current
<b>RX</b>	0 B/sec	0 B/sec	0 B/sec
<b>TX</b>	144 B/sec	144 B/sec	144 B/sec

## 5 Wireless

### 5.1 Status

This page shows the current status of the device's Wireless settings.

View the current wireless connection status and related information.

<b>WLAN Settings</b>	
Channel	11
<b>SSID_1</b>	
ESSID	EnGeniusCC3004
Security	Disable
BSSID	00:AA:BB:CC:30:04

WLAN Settings	
<b>Channel</b>	The wireless channel in use.
<b>ESSID</b>	The SSID (Network Name) of the wireless network. (up to 4 SSIDs are supported)
<b>Security</b>	Wireless encryption is enabled for this SSID.
<b>BSSID</b>	The MAC address of this SSID.

## 5.2 Basic

This page shows the current status of the device's Wireless settings.

This page allows you to define Mode, Band, Multiple ESSID. You can also set up a static wireless channel or make Wireless device move to a clean Wireless Channel automatically.

<b>Radio :</b>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
<b>Mode :</b>	AP ▾
<b>Band :</b>	2.4 GHz (B+G+N) ▾
<b>Enabled SSID#:</b>	1 ▾
<b>ESSID1 :</b>	EnGeniusCC3004
<b>Auto Channel:</b>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<b>Channel :</b>	11 ▾

Apply Cancel

Basic	
<b>Radio</b>	Enable or Disable the device's wireless signal.
<b>Mode</b>	Select between Access Point or Wireless Distribution System (WDS) modes.
<b>Band</b>	Select the types of wireless clients that the device will accept.
<b>Enable SSID#</b>	Select the number of SSID's (Wireless Network names) you would like.

	You can create up to 4 separate wireless networks.
<b>SSID#</b>	Enter the name of your wireless network. You can use up to 32 characters.
<b>Auto Channel</b>	When enabled, the device will scan the wireless signals around your area and select the channel with the least interference.
<b>Channel</b>	Manually select which channel the wireless signal will use.
<b>Check Channel Time</b>	When Auto Channel is Enabled, you can specify the period of the device will scan the wireless signals around your area.

### Wireless Distribution System (WDS)

Using WDS to connect Access Point wirelessly, and in doing so extend a wired infrastructure to locations where cabling is not possible or inefficient to implement.

Note that compatibility between different brands and models is not guaranteed. It is recommended that the WDS network be created using the same models for maximum compatibility.

Also note that all Access Points in the WDS network needs to use the same Channel and Security settings.

*To create a WDS network, please enter the MAC addresses of the Access Points that you want included in the WDS. There can be a maximum of four access points.*

<b>Radio :</b>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
<b>Mode :</b>	WDS ▾
<b>Band :</b>	2.4 GHz (B+G+N) ▾
<b>Channel :</b>	11 ▾
<b>MAC Address 1 :</b>	000000000000
<b>MAC Address 2 :</b>	000000000000
<b>MAC Address 3 :</b>	000000000000
<b>MAC Address 4 :</b>	000000000000
<b>WDS Data Rate :</b>	300M ▾
<b>Set Security :</b>	Set Security

### 5.3 Advanced

This page allows you to configure wireless advance settings. It is recommended the default settings are used unless the user has experience with these functions.

These settings are only for expert user who is familiar with Wireless LAN procedure. Do not change these settings unless you know what effect the changes will have on your AP. Incorrect settings might reduce wireless performance.

<b>Fragment Threshold :</b>	<input type="text" value="2346"/>	(256-2346)
<b>RTS Threshold :</b>	<input type="text" value="2347"/>	(1-2347)
<b>Beacon Interval :</b>	<input type="text" value="100"/>	(20-1024 ms)
<b>DTIM Period :</b>	<input type="text" value="1"/>	(1-255)
<b>N Data Rate:</b>	Auto ▾	
<b>Channel Bandwidth</b>	<input checked="" type="radio"/> Auto 20/40 MHz <input type="radio"/> 20 MHz	
<b>Preamble Type :</b>	<input type="radio"/> Long Preamble <input checked="" type="radio"/> Short Preamble	
<b>CTS Protection :</b>	<input checked="" type="radio"/> Auto <input type="radio"/> Always <input type="radio"/> None	
<b>Tx Power :</b>	100 % ▾	

Apply Cancel

Advanced (Access Point / WDS AP mode)	
<b>Fragment Threshold</b>	Specifies the size of the packet per fragment. This function can reduce the chance of packet collision. However when this value is set too low, there will be increased overheads resulting in poor performance.
<b>RTS Threshold</b>	When the packet size is smaller than the RTS Threshold, then the packet will be sent without RTS/CTS handshake which may result in incorrect transmission.



<b>Beacon Interval</b>	The time interval that the device broadcasts a beacon. This beacon is used to synchronize all wireless clients on the network.
<b>DTIM Period</b>	A Delivery Traffic Indication Message informs all wireless clients that the access point will be sending Multi-casted data.
<b>N Data Rate</b>	You can limit the transfer rates between the device and wireless clients. Each Modulation Coding Scheme (MCS) refers to a specific transfer speed.
<b>Channel Bandwidth</b>	Set whether each channel uses 20 or 40Mhz. To achieve 11n speeds, 40Mhz channels must be used.
<b>Preamble Type</b>	A preamble is a message that helps access points synchronize with the client.  Long Preamble is standard based so increases compatibility. Short Preamble is non-standard, so it decreases compatibility but increases performance.
<b>Tx Power</b>	Set the power output of the wireless signal.

These settings are only for expert user who is familiar with Wireless LAN procedure. Do not change these settings unless you know what effect the changes will have on your AP. Incorrect settings might reduce wireless performance.

<b>Fragment Threshold :</b>	<input type="text" value="2346"/> (256-2346)
<b>RTS Threshold :</b>	<input type="text" value="2347"/> (1-2347)
<b>N Data Rate:</b>	Auto ▾
<b>Channel Bandwidth</b>	<input checked="" type="radio"/> Auto 20/40 MHz <input type="radio"/> 20 MHz
<b>Preamble Type :</b>	<input type="radio"/> Long Preamble <input checked="" type="radio"/> Short Preamble
<b>CTS Protection :</b>	<input checked="" type="radio"/> Auto <input type="radio"/> Always <input type="radio"/> None
<b>Tx Power :</b>	100 % ▾

Advanced (WDS Bridge mode)	
<b>Fragment Threshold</b>	Specifies the size of the packet per fragment. This function can reduce the chance of packet collision. However when this value is set too low, there will be increased overheads resulting in poor performance.
<b>RTS Threshold</b>	When the packet size is smaller than the RTS Threshold, then the packet will be sent without RTS/CTS handshake which may result in incorrect transmission.
<b>N Data Rate</b>	You can limit the transfer rates between the device and wireless clients. Each Modulation Coding Scheme (MCS) refers to a specific transfer speed.
<b>Channel Bandwidth</b>	Set whether each channel uses 20 or 40Mhz. To achieve 11n speeds, 40Mhz channels must be used.
<b>Preamble Type</b>	A preamble is a message that helps access points synchronize with the client. Long Preamble is standard based so increases compatibility. Short Preamble is non-standard, so it decreases compatibility but increases performance.

<b>Tx Power</b>	Set the power output of the wireless signal.
-----------------	--

## 5.4 Security

This page allows you to set the wireless security settings.

**Note:** Only in Access Point and WDS AP mode.

This page allows you setup the wireless security. You can turn on WEP or WPA by using Encryption Keys, besides you can enable 802.1x Authentication or RADIUS to coordinate with RADIUS server.

**ESSID Selection :** EnGeniusCC3004 ▾  
**Separate :**  SSID  STA  
**Broadcast ESSID :** Enable ▾  
**WMM :** Enable ▾  
**Encryption :** Disable ▾  
 **Enable 802.1x Authentication**

Disable  
 Disable  
 WEP  
 WPA pre-shared key  
 WPA RADIUS

Security (Access Point / WDS AP mode)	
<b>SSID Selection</b>	Select the SSID that the security settings will apply to.
<b>Separate</b>	Tick the box in SSID or STA to Enable Separate feature.  Separate prevents communication and data sharing between wireless stations associated with same SSID or different SSID.
<b>Broadcast SSID</b>	If Disabled, then the device will not be broadcasting the SSID. Therefore it will be invisible to wireless clients.
<b>WMM</b>	Wi-Fi Multi-Media is a Quality of Service protocol which prioritizes traffic in the order according to voice, video, best effort, and background.

	Note that in certain situations, WMM needs to be enabled to achieve 11n transfer speeds.
<b>Encryption</b>	<p>The encryption method to be applied. You can choose from WEP, WPA pre-shared key or WPA RADIUS.</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b> - no data encryption is used.</li> <li>• <b>WEP</b> - data is encrypted using the WEP standard.</li> <li>• <b>WPA-PSK</b> - data is encrypted using the WPA-PSK standard. This is a later standard than WEP, and provides much better security than WEP. If all your Wireless stations support WPA-PSK, you should use WPA-PSK rather than WEP.</li> <li>• <b>WPA2-PSK</b> - This is a further development of WPA-PSK, and offers even greater security, using the AES (Advanced Encryption Standard) method of encryption.</li> <li>• <b>WPA-RADIUS</b> - This version of WPA requires a Radius Server on your LAN to provide the client authentication according to the 802.1x standard. Data transmissions are encrypted using the WPA standard.</li> </ul> <p>If this option is selected:</p> <ul style="list-style-type: none"> <li>• This Access Point must have a "client login" on the Radius Server.</li> <li>• Each user must have a "user login" on the Radius Server.</li> <li>• Each user's wireless client must support 802.1x and provide the login data when required.</li> <li>• All data transmission is encrypted using the WPA standard. Keys are automatically generated, so no key input is required.</li> </ul>

IEEE 802.1x is an authentication protocol. Every user must use a valid account to login to this Access Point before accessing the wireless LAN. The authentication is processed by a RADIUS server. This mode only authenticates users by IEEE 802.1x, but it does not encrypt the data during communication.

**Enable 802.1x Authentication**

**RADIUS Server IP Address :**

**RADIUS Server Port :**

**RADIUS Server Shared Secret :**

802.1x Authentication	
<b>RADIUS Server IP Address</b>	The IP Address of the RADIUS Server
<b>RADIUS Server port</b>	The port number of the RADIUS Server.
<b>RADIUS Server password</b>	The RADIUS Server's password.

**WEP Encryption:**

Encryption :	WEP ▾
Authentication Type :	<input checked="" type="radio"/> Open System <input type="radio"/> Shared Key <input type="radio"/> Auto
Key Length :	64-bit ▾
Key Type :	Hex (10 characters) ▾
Default Key :	Key 1 ▾
Encryption Key 1 :	1234567890
Encryption Key 2 :	
Encryption Key 3 :	
Encryption Key 4 :	

WEP Encryption	
Authentication Type	Please ensure that your wireless clients use the same authentication type.
Key type	<b>ASCII:</b> regular text (recommended) <b>HEX:</b> for advanced users
Key Length	Select the desired option, and ensure the wireless clients use the same setting. <ul style="list-style-type: none"> <li>• <b>64 Bit</b> - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 64 Bit Encryption, the key size is 10 chars in HEX (0~9 and A~F).</li> <li>• <b>128 Bit</b> - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 128 Bit Encryption, the key size is 26 chars in HEX (0~9 and A~F).</li> </ul>
Default Key	Select the key you wish to be the default. Transmitted data is ALWAYS encrypted using the Default Key; the other Keys are for decryption only. You must enter a <b>Key Value</b> for the <b>Default Key</b> .
Encryption Key #	Enter the key value or values you wish to use. Only the Key selected as Default is required. The others are optional.

#### WPA Pre-Shared Key Encryption:

<b>Encryption :</b>	WPA pre-shared key ▾
<b>WPA Type :</b>	<input type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES) <input checked="" type="radio"/> WPA2 Mixed
<b>Pre-shared Key Type :</b>	Passphrase ▾
<b>Pre-shared Key :</b>	12345678

WPA Pre-Shared Key Encryption	
<b>Authentication Type</b>	Please ensure that your wireless clients use the same authentication type.
<b>WPA type</b>	Select the WPA encryption you would like. Please ensure that your wireless clients use the same settings.
<b>Pre-shared Key Type</b>	Select whether you would like to enter the Key in HEX or Passphrase format.
<b>Pre-shared Key</b>	Wireless clients must use the same key to associate the device. If using passphrase format, the Key must be from 8 to 63 characters in length.

**WPA RADIUS Encryption:**



<b>Encryption :</b>	WPA RADIUS ▾
<b>WPA Type :</b>	<input type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES) <input checked="" type="radio"/> WPA2 Mixed
<b>RADIUS Server IP Address :</b>	<input type="text"/>
<b>RADIUS Server Port :</b>	<input type="text" value="1812"/>
<b>RADIUS Server Shared Secret :</b>	<input type="text"/>

WPA RADIUS Encryption	
<b>WPA type</b>	Select the WPA encryption you would like. Please ensure that your wireless clients use the same settings.
<b>RADIUS Server IP address</b>	Enter the IP address of the RADIUS Server
<b>RADIUS Server Port</b>	Enter the port number used for connections to the RADIUS server.
<b>RADIUS Server password</b>	Enter the password required to connect to the RADIUS server.

## 5.5 Filter

This page allows you to create filters to control which wireless clients can connect to this device by only allowing the MAC addresses entered into the Filtering Table.

**Note:** Only in Access Point and WDS AP mode.

Using MAC Address Filtering could prevent unauthorized MAC Address to associate with the AP.

**Enable Wireless MAC Filtering**

Description	MAC Address
rule02	80A49E837BA2

**Only the following MAC Addresses can use network:**

NO.	Description	MAC Address	Select
1	rule01	00:21:6A:78:8E:70	<input type="checkbox"/>

Wireless Filter (Access Point / WDS AP mode)	
<b>Enable Wireless Access Control</b>	Tick the box to Enable Wireless Access Control. When Enabled, only wireless clients on the Filtering Table will be allowed.
<b>Description</b>	Enter a name or description for this entry.

<b>MAC address</b>	Enter the MAC address of the wireless client that you wish to allow connection.
<b>Add</b>	Click this button to add the entry.
<b>Reset</b>	Click this button if you have made a mistake and want to reset the MAC address and Description fields.
<b>MAC Address Filtering Table</b>	
Only clients listed in this table will be allowed access to the wireless network.	
<b>Delete Selected</b>	Delete the selected entries.
<b>Delete All</b>	Delete all entries
<b>Reset</b>	Un-tick all selected entries.

## 5.6 WPS (Wi-Fi Protected Setup)

WPS feature is following the Wi-Fi Alliance WPS standard and it eases the set up of security-enabled Wi-Fi networks in the home and small office environment.

It reduces the user steps required to configure a network and supports two methods that are familiar to most consumers to configure a network and enable security.

**Note:** Only in Access Point and WDS AP mode.

**WPS:**  Enable

**Wi-Fi Protected Setup Information**

**WPS Current Status:** Configured

**Self Pin Code:** 33816364

**SSID:** EnGeniusCC3004

**Authentication Mode:** WPA/WPA2 pre-shared key

**Passphrase Key :**

**WPS Via Push Button:**

**WPS Via PIN:**

Wi-Fi Protected Setup (WPS)	
<b>WPS</b>	Tick to Enable the WPS feature.
Wi-Fi Protected Setup Information	
<b>WPS Current Status</b>	Shows whether the WPS function is <b>Configured</b> or <b>Un-configured</b> . Configured means that WPS has been used to authorize connection between the device and wireless clients.
<b>SSID</b>	The SSID (wireless network name) used when connecting using WPS.
<b>Authentication Mode</b>	Shows the encryption method used by the WPS process.

<b>Passphrase Key</b>	This is the passphrase key that is randomly generated during the WPS process. It is required if wireless clients that do not support WPS attempts to connect to the wireless network.
<b>WPS Via Push Button</b>	Click this button to initialize WPS feature using the push button method.
<b>WPS Via PIN</b>	Enter the PIN code of the wireless device and click this button to initialize WPS feature using the PIN method.

## 5.7 Client List

This page shows the wireless clients that are connected to the device.

**Note:** Only in Access Point and WDS AP mode.

### WLAN Client Table :

This WLAN Client Table shows client MAC address associate to this device.

Interface	MAC Address	Rx	Tx	Signal(%)	Connected Time	Idle Time
EnGeniusCC3004	00:02:6F:11:AC:93	1852677	1832060	44	10 min 27 secs	0 secs
EnGeniusCC3004	00:02:6F:47:65:CA	1519236	1493659	36	6 min 50 secs	0 secs

Refresh

## 5.8 VLAN

This page allows you to configure the VLAN

**Note:** Only in Access Point and WDS AP mode.

A virtual LAN, commonly known as a VLAN, is a group of hosts with a common set of requirements that communicate as if they were attached to the same wire, regardless of their physical location.

<b>Virtual LAN :</b>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<b>SSID 1 Tag:</b>	<input type="text" value="100"/> (1~4094)
<b>LAN VLAN MGMT :</b>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<b>MGMT Tag:</b>	<input type="text" value="500"/> (1~4094)

VLAN	
<b>Virtual LAN</b>	Choose to Enable or Disable the VLAN feature.
<b>SSID# Tag</b>	Specify the VLAN tag for each SSID.
<b>LAN VLAN MGMT</b>	Choose to Enable or Disable the LAN VLAN MGMT feature.
<b>MGMT Tag</b>	Specify the VLAN tag for LAN.

## 6 Network

### 6.1 Status

This page shows the current status of the device's LAN connection.

#### LAN Settings

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Gateway IP Address	---
MAC Address	00:AA:BB:CC:30:04



## 6.2 LAN

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

<b>Bridge Type :</b>	Static IP ▾
<b>IP Address :</b>	192.168.1.1
<b>IP Subnet Mask :</b>	255.255.255.0
<b>Default Gateway :</b>	
<b>DNS Type :</b>	Static ▾
<b>First DNS Address :</b>	192.168.1.1
<b>Second DNS Address :</b>	192.168.1.1

LAN IP	
<b>Bridge Type</b>	Select Static IP or Dynamic IP from the drop-down list. If you select Static IP, you will be required to specify an IP address and subnet mask. If Dynamic IP is selected, then the IP address is received automatically from the external DHCP server.
<b>IP address</b>	The LAN IP Address of this device.
<b>IP Subnet Mask</b>	The LAN Subnet Mask of this device.
<b>Default Gateway</b>	The Default Gateway of this device. Leave it blank if you are unsure of this setting.
<b>DNS Type</b>	Select Static or Dynamic from the drop-down list.
<b>First / Second DNS Address</b>	The first / second DNS address for this device.

**DHCP Server** feature is only in Access Point mode.

#### DHCP Server

<b>DHCP Server :</b>	Disabled ▾
<b>Lease Time :</b>	Forever ▾
<b>Start IP :</b>	192.168.1.100
<b>End IP :</b>	192.168.1.200
<b>Domain Name :</b>	eap300
<b>First DNS Address :</b>	
<b>Second DNS Address :</b>	

DHCP Server (Access Point mode)	
<b>DHCP Server</b>	Enable or disable DHCP feature. The DHCP Server automatically allocates IP addresses to your LAN device. Disabled as default.
<b>Lease Time</b>	The duration of the DHCP server allocates each IP address to a LAN device.
<b>Start / End IP</b>	The range of IP addresses of the DHCP server will allocate to LAN device.
<b>Domain name</b>	The domain name for this LAN network.
<b>First / Second DNS Address</b>	The first / second DNS address for this LAN network.

## 6.3 Spanning Tree

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

### Spanning Tree Settings

<b>Spanning Tree Status :</b>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<b>Bridge Hello Time :</b>	<input type="text" value="2"/> seconds (1-10)
<b>Bridge Max Age :</b>	<input type="text" value="20"/> seconds (6-40)
<b>Bridge Forward Delay :</b>	<input type="text" value="15"/> seconds (4-30)
<b>Bridge Priority :</b>	<input type="text" value="32768"/> (0-65535)

## 7 Management

### 7.1 Admin

This page allows you to change the system password and to configure remote management. By default, the password is: **admin**. Password can contain 0 to 12 alphanumeric characters and are case sensitive.

You can change the password that you use to access the device, this is not you ISP account password.

Old Password :	<input type="text"/>
New Password :	<input type="text"/>
Confirm password :	<input type="text"/>
Idle Timeout :	<input type="text" value="10"/> (1~10 Minutes)

Change Password	
Old Password	Enter the current password.
New Password	Enter your new password.
Confirm Password	Enter your new password again for verification.
Idle Timeout	Enter Administration Page timeout time.

## 7.2 SNMP

This page allows you to assign the contact details, location, community name and trap settings for SNMP. This 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 a network. Upon receiving these messages, SNMP-compatible devices (called agents) return data stored in their Management Information Bases.

SNMP is used in network management systems to monitor network-attached devices for conditions that warrant administrative attention.

<b>SNMP Active</b>	Disabled ▾
<b>SNMP Version</b>	All ▾
<b>SNMP Manager IP</b>	0.0.0.0
<b>Read Community</b>	public
<b>Set Community</b>	private
<b>System Location</b>	EnGenius Technologies, Inc.
<b>System Contact</b>	SENAO Networks, Inc.
<b>Trap Active</b>	Disabled ▾
<b>Trap Manager IP</b>	192.168.1.100
<b>Trap Community</b>	public

Apply Cancel

SNMP	
<b>SNMP Active</b>	Enable or disable SNMP feature.
<b>SNMP Version</b>	You may select a specific version or select <b>All</b> from the drop-down list.
<b>Read Community</b>	Specify the password for access the SNMP community for read only access.
<b>Set Community</b>	Specify the password for access to the SNMP community with read/write access.
<b>System Location</b>	Specify the location of the device.
<b>System Contact</b>	Specify the contact details of the device
Trap	
<b>Trap Active</b>	Enable or disable SNMP trapping feature.
<b>Trap Manager IP</b>	Specify the IP address of the computer that will receive the SNMP traps.
<b>Trap Community</b>	Specify the password for the SNMP trap community.

### 7.3 Firmware Upgrade

This page allows you to upgrade the device's firmware.

You can upgrade the firmware of the device in this page. Ensure, the firmware you want to use is on the local hard drive of your computer. Click on Browse to browse and locate the firmware to be used for your update.

#### To perform the Firmware Upgrade:

1. Click the [**Browse**] button and navigate to the location of the upgrade file.
2. Select the upgrade file. Its name will appear in the *Upgrade File* field.
3. Click the [**Apply**] button to commence the firmware upgrade.

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

### Emergency Upgrade

If you upgrade fail, you may enter Emergency Upgrade WEB page.

1. Enter IP address: **192.168.99.9** and enter Emergency Upgrade WEB page.



**Note:** Refer to 2.2 to configure PC/Notebook IP address to 192.168.99.8.

2. Click the [**Browse**] button and navigate to the location of the upgrade file and then click [**Upload**].

### Emergency Web Server

File

3. Wait for 60 seconds for firmware upgrade and reboot the device.

**Updating File.....**

---

**Don't Power Down.**

Please wait for **58** seconds ...

4. You can access the device again.



**EnGenius**

Username:

Password:

## 7.4 Configure

This page allows you to save the current device configurations. When you save the configurations, you also can re-load the saved configurations into the device through the [**Restore Settings**]. If extreme problems occur you can use the [**Restore to Factory Defaults**] to set all configurations to its original default settings.

The current system settings can be saved as a file onto the local hard drive. The saved file can be loaded back on the device. To reload a system settings file, click on BROWSE to locate the system file to be used. You may also reset the device back to factory default settings by clicking RESET.

Restore To Factory Default :	<input type="button" value="Reset"/>
Backup Settings :	<input type="button" value="Save"/>
Restore Settings :	<input type="text"/> <input type="button" value="Browse..."/> <input type="button" value="Upload"/>

Configure	
<b>Restore to Factory Default</b>	Restores the device to factory default settings.
<b>Backup Settings</b>	Save the current configuration settings to a file.
<b>Restore Settings</b>	Restores a previously saved configuration file. Click <b>Browse</b> to select the file. Then <b>Upload</b> to load the settings.

## 7.5 Reset

In some circumstances it may be required to force the device to reboot. Click on **[Apply]** to reboot.

In the event the system stops responding correctly or stops functioning, you can perform a reset. Your settings will not be changed. To perform the reset, click on the APPLY button. You will be asked to confirm your decision. The reset will be completed when the LED Power light stops blinking.

Apply

## 8 Tools

### 8.1 Time Setting

This page allows you to set the system time.

The device reads the correct time from NTP servers on the Internet and sets its system clock accordingly. The Daylight Savings option merely advances the system clock by one hour. The time zone setting is used by the system clock when displaying the correct time in schedule and the log files.

<b>Time Setup :</b>	Synchronize with the NTP Server ▾
<b>Time Zone :</b>	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London ▾
<b>NTP Time Server :</b>	<input type="text"/>
<b>Daylight Saving :</b>	<input type="checkbox"/> Enable From <input type="text" value="January"/> <input type="text" value="1"/> To <input type="text" value="January"/> <input type="text" value="1"/>

Time	
<b>Time Setup</b>	Select the method you want to set the time.
<b>Time Zone</b>	Select the time zone for your current location.
<b>NTP Time Server</b>	Enter the address of the Network Time Protocol (NTP) Server to automatically synchronize with a server on the Internet.
<b>Daylight Savings</b>	Check whether daylight savings applies to your area.

## 8.2 Diagnosis

This page allows you to test your network. Type in the address for diagnosis.

This page can diagnose the current network status.

Address to Ping :	<input type="text"/>
Ping Frequency :	<input type="text" value="1"/> <input type="button" value="Start"/>

Diagnosis	
Address to Ping	Enter the IP address you like to see if a successful connection can be made.
Ping Frequency	Select the frequency for Ping test.
Ping Result	The results of the Ping test.

### 8.3 LED Control

This page allows you to control LED on/off for Power, LAN interface and WLAN interface.

You can use the LED control page to control LED on/off for Power, LAN interface and WLAN interface.

#### LED Control :

Power LED :  On  Off

LAN LED :  On  Off

WLAN LED :  On  Off

Apply

Cancel

## 9 Logout

Click on [**Logout**] button to logout.

This page is used to logout this device.

Logout

## Appendix A – FCC Interference Statement

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### **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.

### **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 20cm between the radiator & your body.

### **Industry Canada statement:**

This device complies with RSS-210 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-210 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.

**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 20 cm de distance entre la source de rayonnement et votre corps.

## Appendix B – CE Interference Statement

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

### 1.1. Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN60950-1  
Safety of Information Technology Equipment
  
- EN50385
- Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz - 300 GHz)
  
- EN 300 328
- Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
  
- 
- EN 301 489-1  
Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
  
- EN 301 489-17
- Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

# CE 0560

[cs]Česky [Czech]	<i>[Jméno výrobce]</i> tímto prohlašuje, že tento <i>[typ zařízení]</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
[da]Dansk [Danish]	Undertegnede <i>[fabrikantens navn]</i> erklærer herved, at følgende udstyr <i>[udstyrets typebetegnelse]</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
[de]Deutsch [German]	Hiermit erkläre <i>[Name des Herstellers]</i> , dass sich das Gerät <i>[Gerätetyp]</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
[et]Eesti [Estonian]	Käesolevaga kinnitab <i>[tootja nimi = name of manufacturer]</i> seadme <i>[seadme tüüp = type of equipment]</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
[en]English	Hereby, <i>[name of manufacturer]</i> , declares that this <i>[type of equipment]</i> is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
[es]Español [Spanish]	Por medio de la presente <i>[nombre del fabricante]</i> declara que el <i>[clase de equipo]</i> cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
[el]Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ <i>[name of manufacturer]</i> ΔΗΛΩΝΕΙ ΟΤΙ <i>[type of equipment]</i> ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
[fr]Français [French]	Par la présente <i>[nom du fabricant]</i> déclare que l'appareil <i>[type d'appareil]</i> est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
[it]Italiano [Italian]	Con la presente <i>[nome del costruttore]</i> dichiara che questo <i>[tipo di apparecchio]</i> è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Latviski [Latvian]	Ar šo <i>[name of manufacturer / izgatavotāja nosaukums]</i> deklarē, ka <i>[type of equipment / iekārtas tips]</i> atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo <i>[manufacturer name]</i> deklaruoja, kad šis <i>[equipment type]</i> atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
 Nederlands [Dutch]	Hierbij verklaart <i>[naam van de fabrikant]</i> dat het toestel <i>[type van toestel]</i> in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
 Malti [Maltese]	Hawnhekk, <i>[isem tal-manifattur]</i> , jiddikjara li dan <i>[il-mudel tal-prodott]</i> jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
 Magyar [Hungarian]	Alulírott, <i>[gyártó neve]</i> nyilatkozom, hogy a <i>[... típus]</i> megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
 Polski [Polish]	Niniejszym <i>[nazwa producenta]</i> oświadczam, że <i>[nazwa wyrobu]</i> jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
 Português [Portuguese]	<i>[Nome do fabricante]</i> declara que este <i>[tipo de equipamento]</i> está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
 Slovensko [Slovenian]	<i>[Ime proizvajalca]</i> izjavlja, da je ta <i>[tip opreme]</i> v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	<i>[Meno výrobcu]</i> týmto vyhlasuje, že <i>[typ zariadenia]</i> spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
 Suomi [Finnish]	<i>[Valmistaja = manufacturer]</i> vakuuttaa täten että <i>[type of equipment = laitteen tyyppimerkintä]</i> tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
 Svenska [Swedish]	Härmed intygar <i>[företag]</i> att denna <i>[utrustningstyp]</i> står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.