SEW832 Serial to Ethernet Server

User's Manual

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Table of Contents

1.Introduction

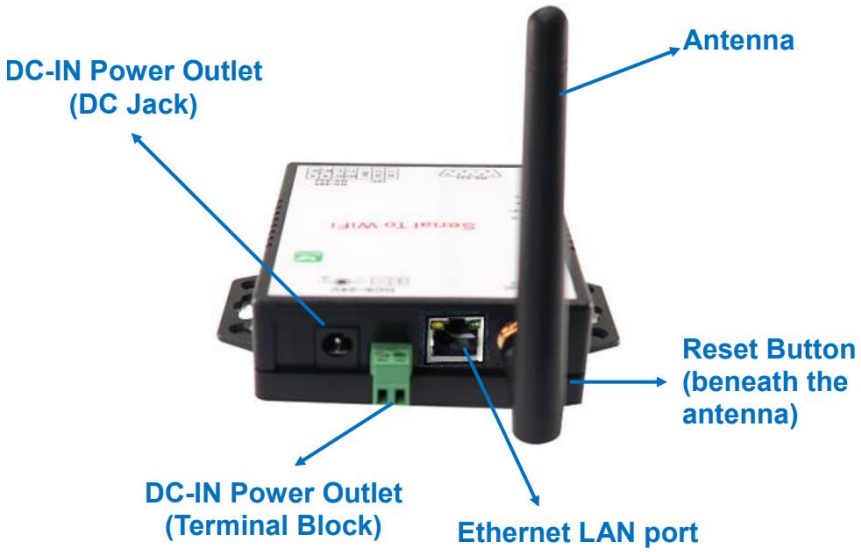
This SEW832 Ethernet+WiFi Serial Server provides the ways of connecting serial devices to both Ethernet and Wireless LAN (Wi-Fi 802.11 b/g/n). It is designed to operate serial ports through Ethernet (10/100Mbps) and wireless (Wi-Fi 802.11 b/g/n) over TCP/IP network. As the data is transmitted via TCP/IP protocol, therefore data acquisition and controlling is available to go through Intranet and Internet. There are two serial ports as one is a RS-232 and other one is RS-422/485. Configuration is easy to operate via web page setup.

This WiFi Serial Server is a high performance design composed with carefully selecting qualified components from reliable and certified sources. This operation manual will guide you to configure functions step by step.

This WiFi Serial Server provides TCP Server Mode, TCP Client Mode, and UDP Mode for selection. It also supports manual configuration via web browser and support various protocols including HTTP, DHCP, ICMP, and ARP. These are the best solution to coordinate your Serial interface devices.

1.1 Product Views

Antenna Side



Serial Interface Side

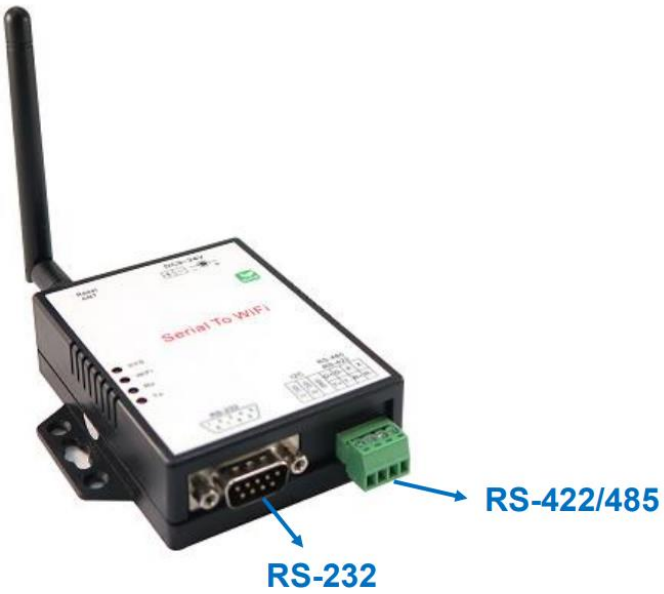


Figure 1 Product Views

1.2 Wiring Architecture

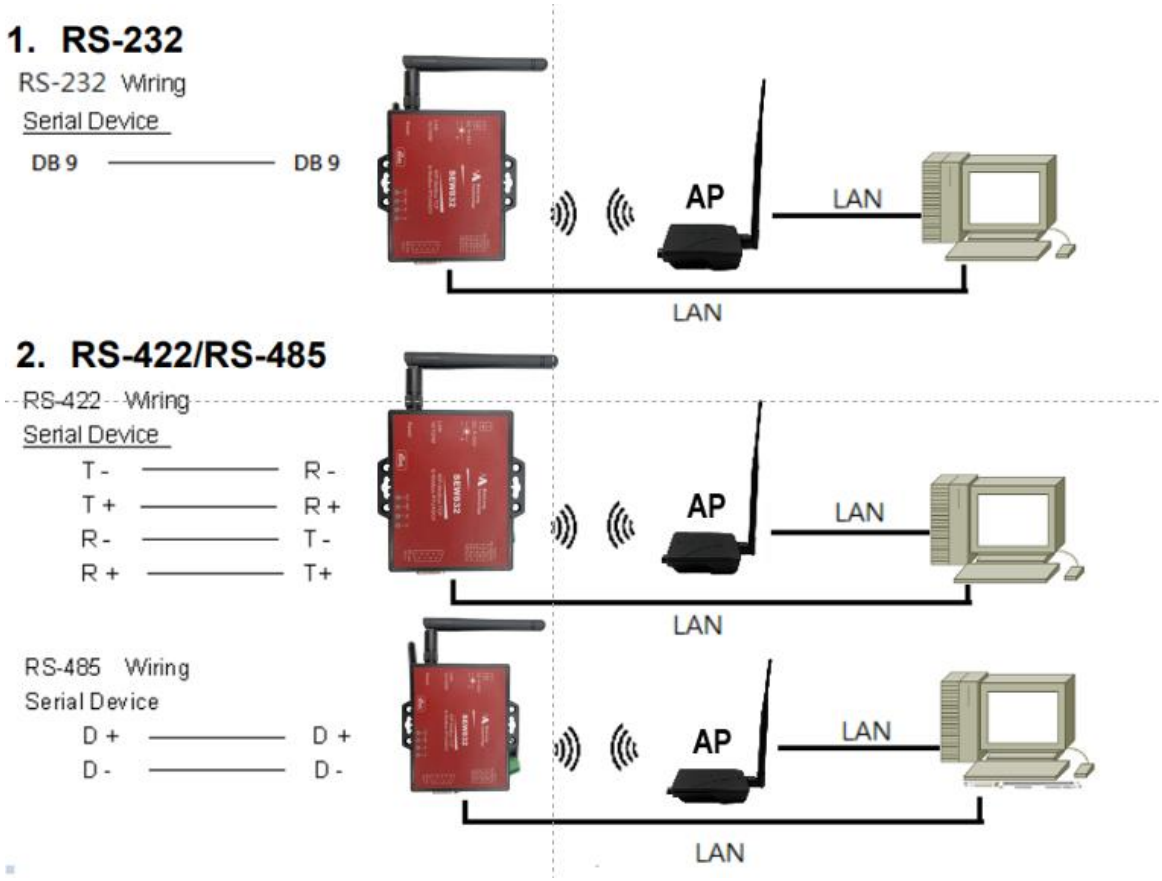


Figure 2 Wiring Architecture

2. Configuration

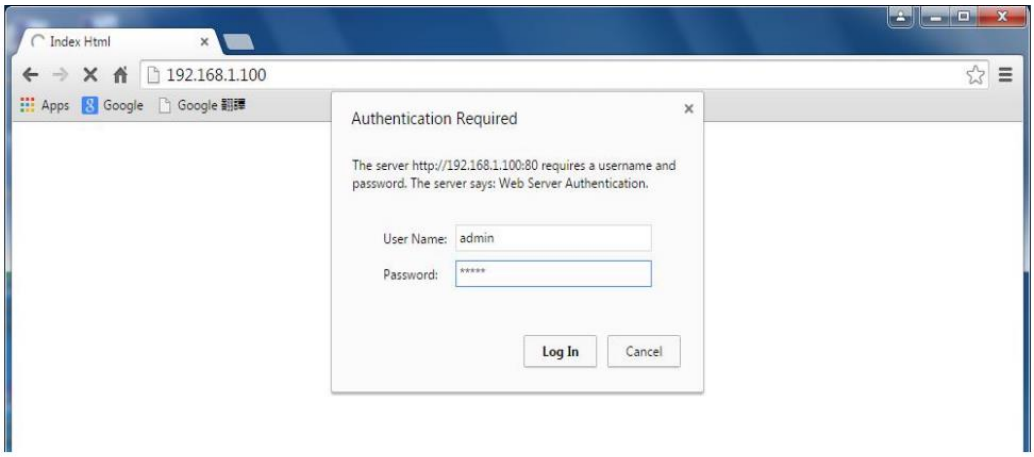
2.1Configuration Via Web

Step1➔ The first thing is to configure the Host PC's IP address

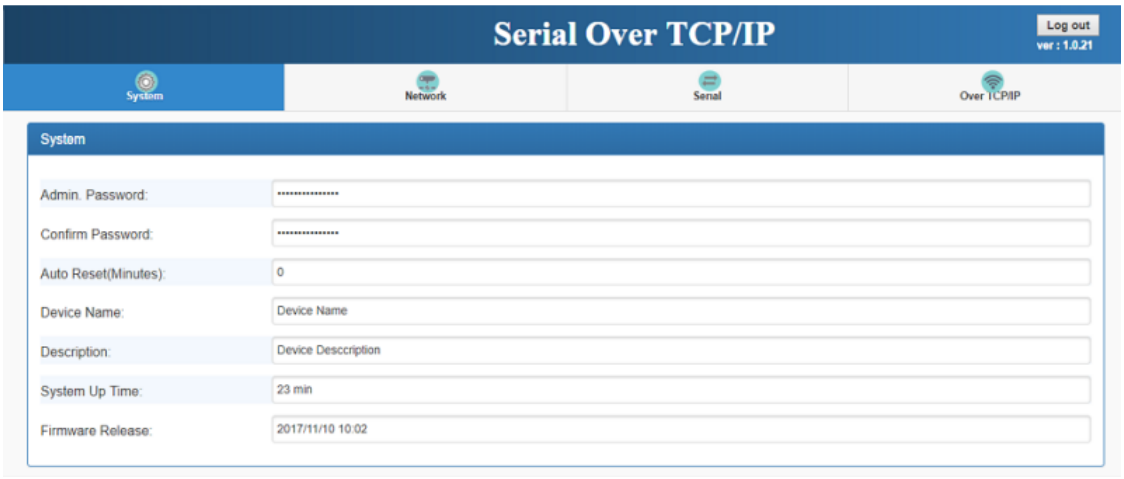
IP :192.168.1.xx

Step2➔ Open a web page of configuration http://*192.168.1.100*

Step3➔ Default *User name*: "***admin"*** and *Password*: "***admin"***



Step4➔And now you have successfully connected to this Modbus gateway

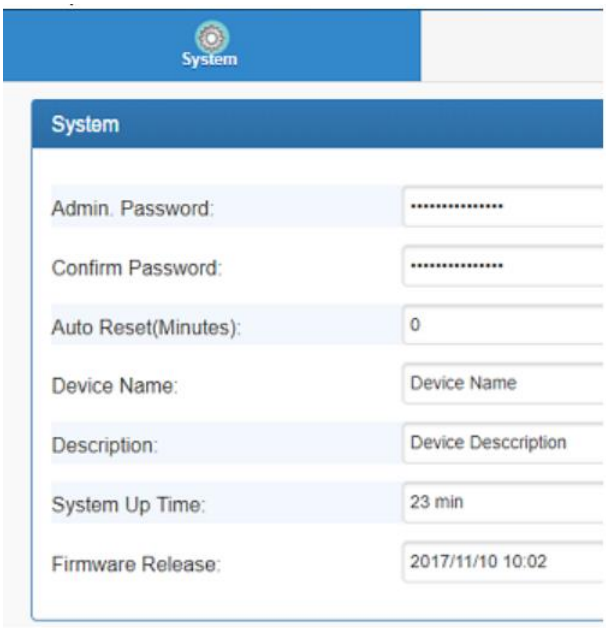


2.2 Configuration Sections

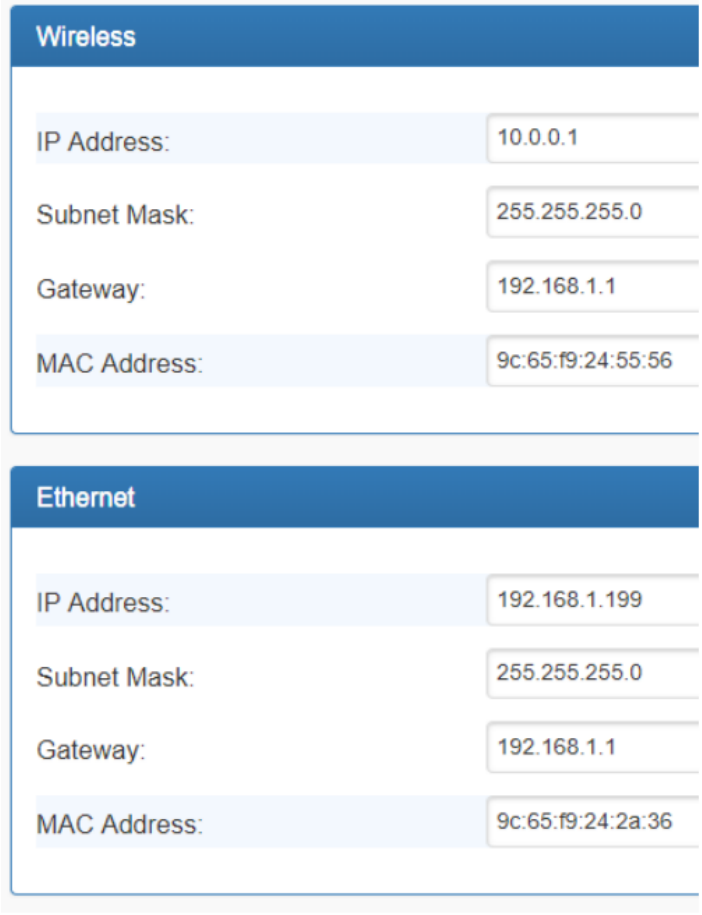
There are 4 pages as per "System", "Network", "Serial" and "Over TCP/IP".

2.2.1 System Setup

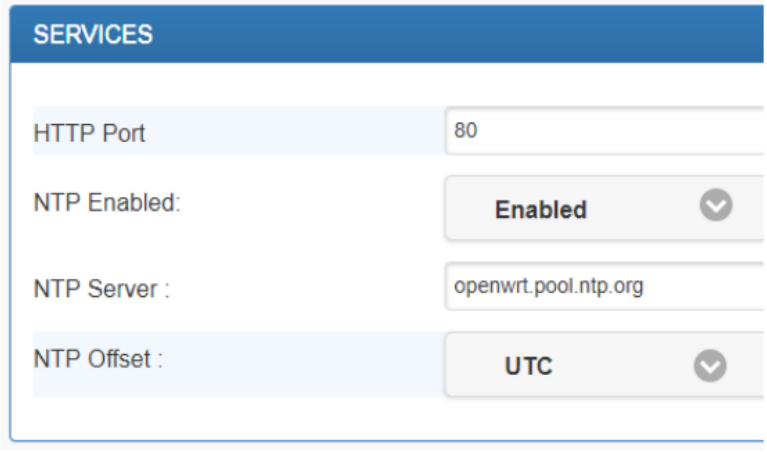
1.System: Where one can change Password, set up Auto Reset time and modify Device Name, Description of device etc.



2. Appearance of Wireless and Ethernet setup:

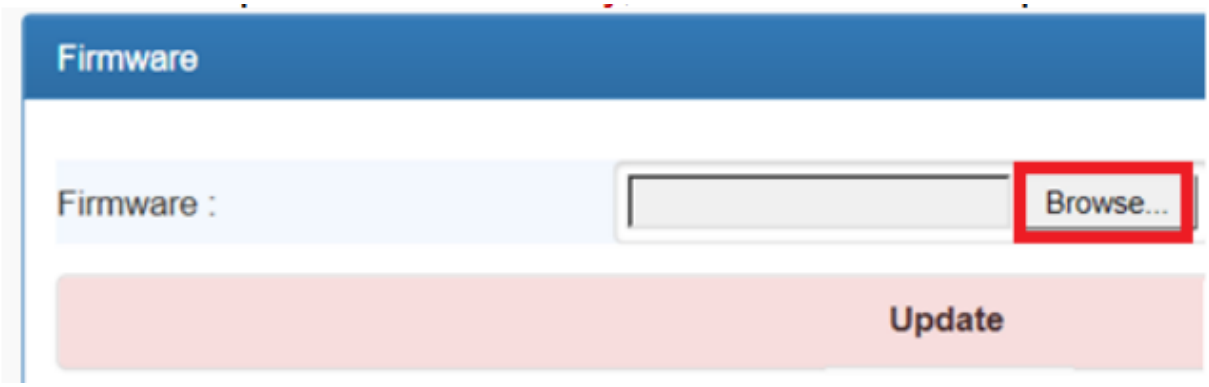


3. NTP: Enable / Disable NTP function; Set up NTP server and Time Zone.



4. Firmware update:

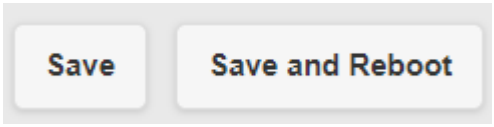
(1) If necessary, click "Browse" to open file manager



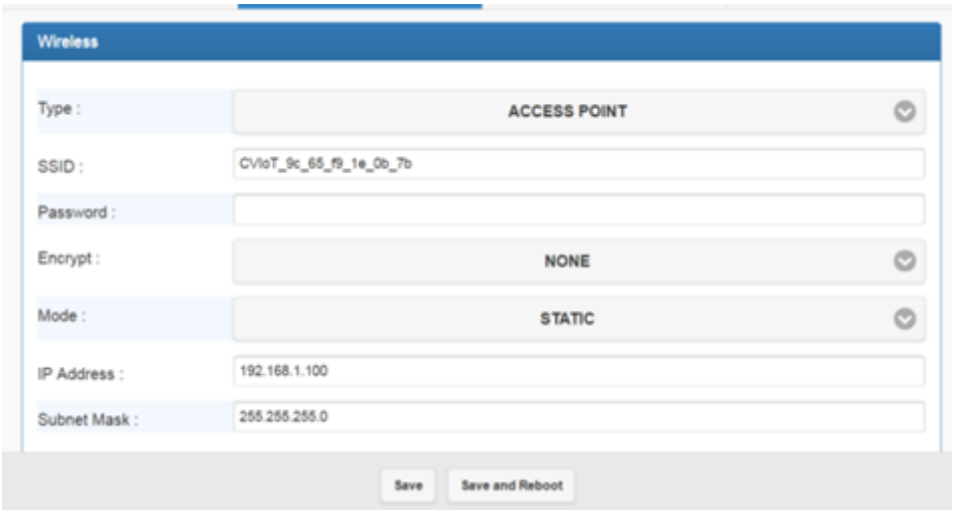
(2) Select the file with specified version and click "Confirm" button.

(3) When the selected file name appears on the input column, click "Update" button.

5. Up to now, Setup is successfully configured. Please click "Save" this page before "Save and Reboot" for permanent web pages.

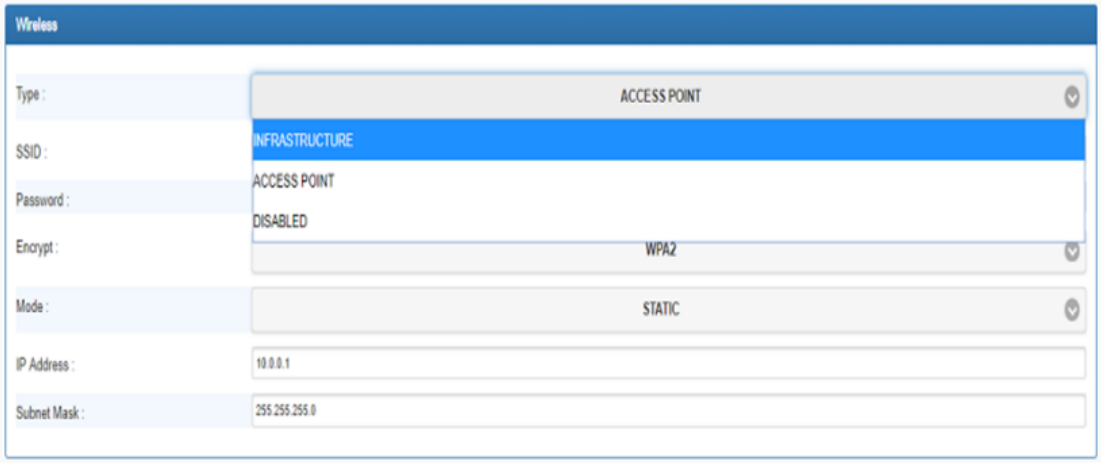


2.2.2 Network Setup



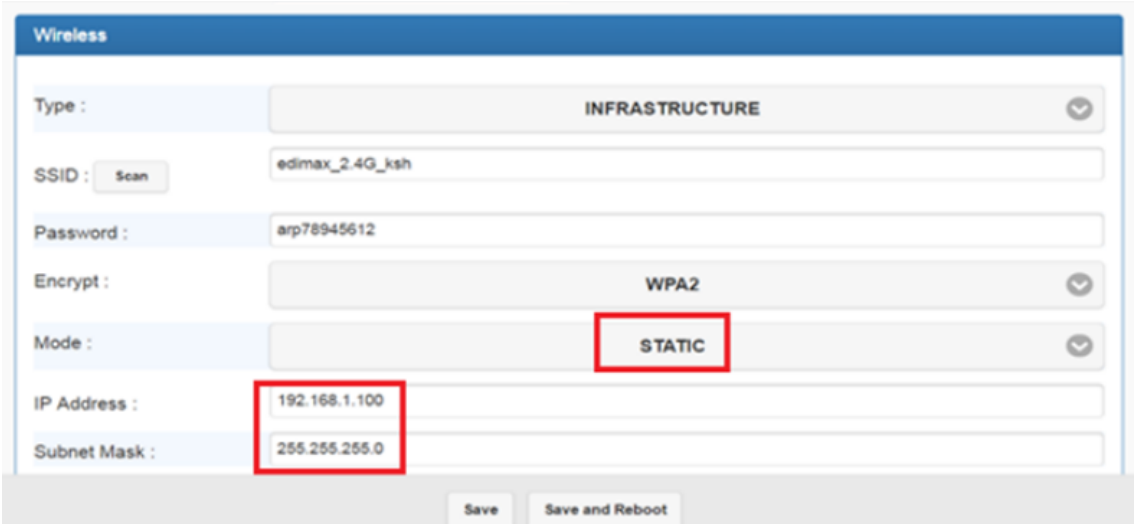
1. Wireless section:

(1) Type: to select "INFRASTRUCTURE" or "ACCESS POINT"



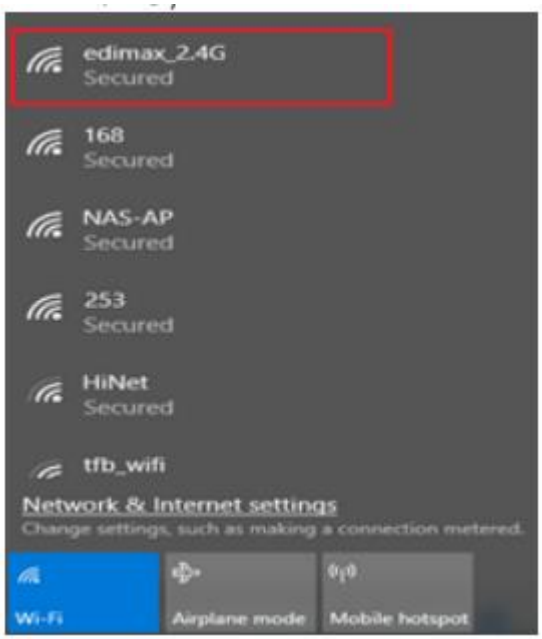
(2) When selected "INFRASTRUCTURE", go to SSID, click "Scan" will get list of available SSID, select one to link.

(3) Input password for the AP and assign STATIC IP address

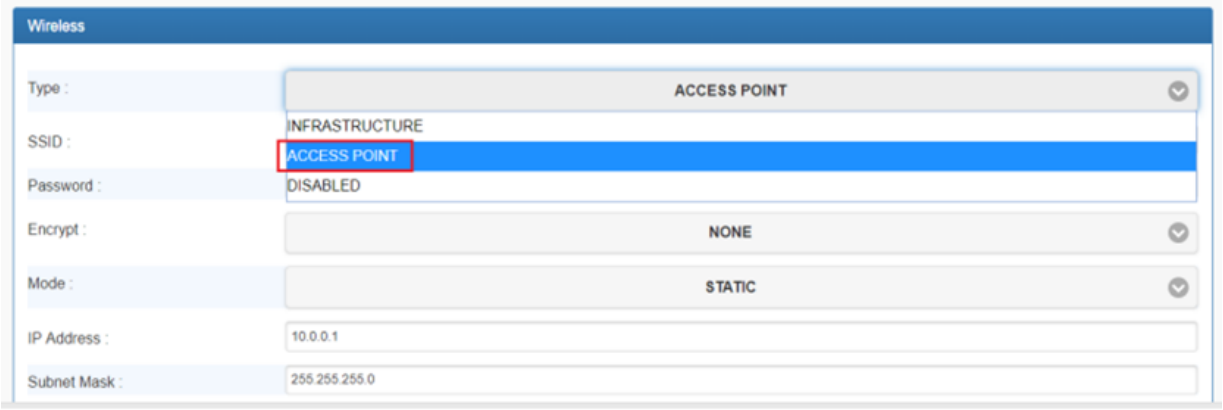


(4) In NB/PC, choose same SSID to link. NB/PC must close Ethernet in

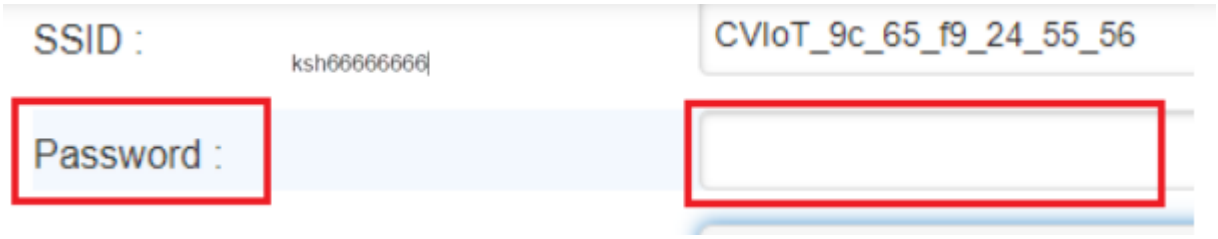
advance



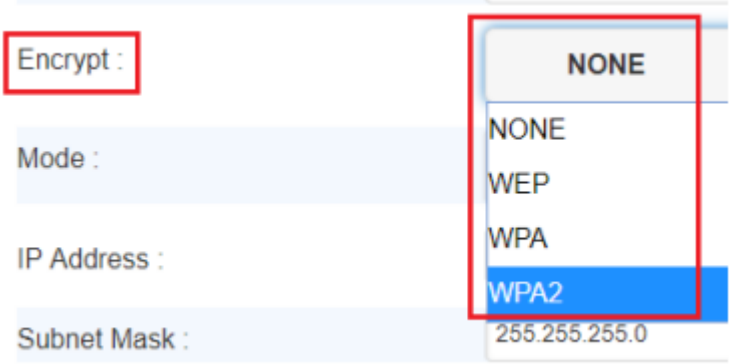
2. When selected "ACCESS POINT", Converter acts as an Access Point which is allowed to be connected by PC /NB /Smart Phone/ PAD. It supports DHCP server function. Soft AP broadcasts its SSID "CVIoT_XX_XX_XX_XX_XX_XX". PC /NB /Smart Phone/PAD should connect to this SSID and then open web browser with default IP for Converter setup.



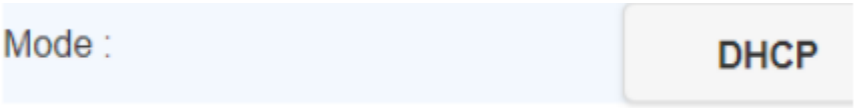
3. Password: Key in selected AP log in password



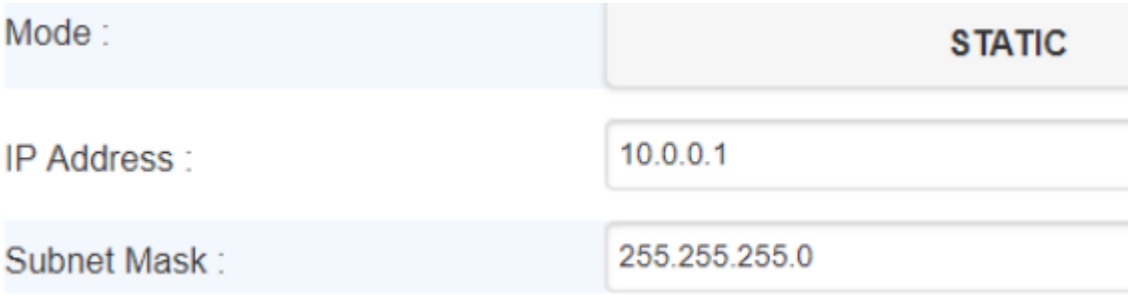
4. Encrypt



5. Mode: IP Address
   (1)"DHCP": Let AP to assign IP address to itself

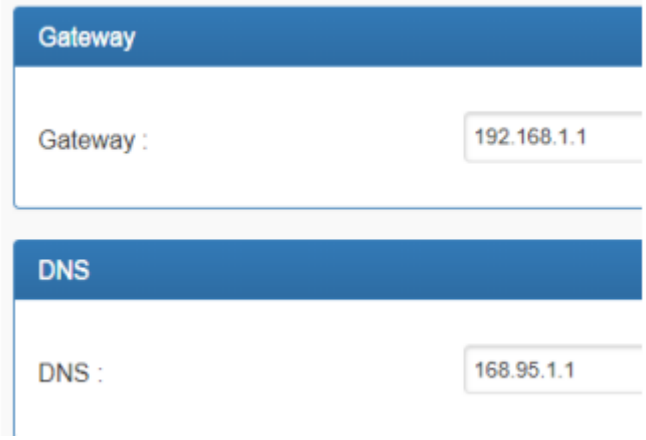


   (2)"STATIC": To input assigned IP address, Subnet Mask.



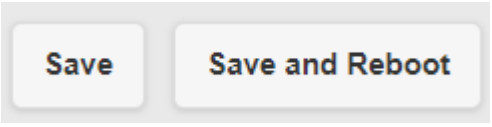
6. Ethernet: select STATIC or DHCP to assign IP address.

7. Gateway and DNS: To check with MIS for right IP address.



※The Gateway must be set with correct IP enable to connect with Internet.

8. Up to now, Setup is successfully configured. Please click "Save" this page before permanent change of configuration.

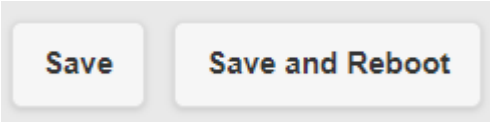


2.2.3 Serial Port Setup

Input each parameters to match with the remote terminal units.

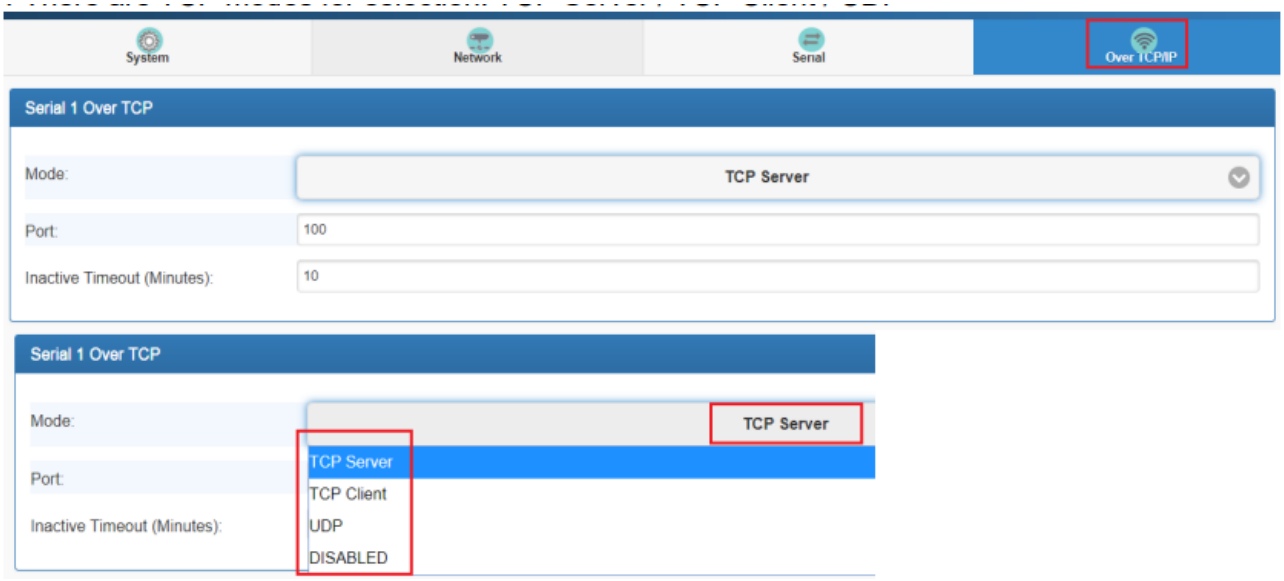
1.Baud Rate
2.Parity
3.Data Bits
4.Stop Bits
5.Flow Control
6.RxDelay(ms)
7.TxDelay(ms)

9. Click "Save" this page before permanent pages



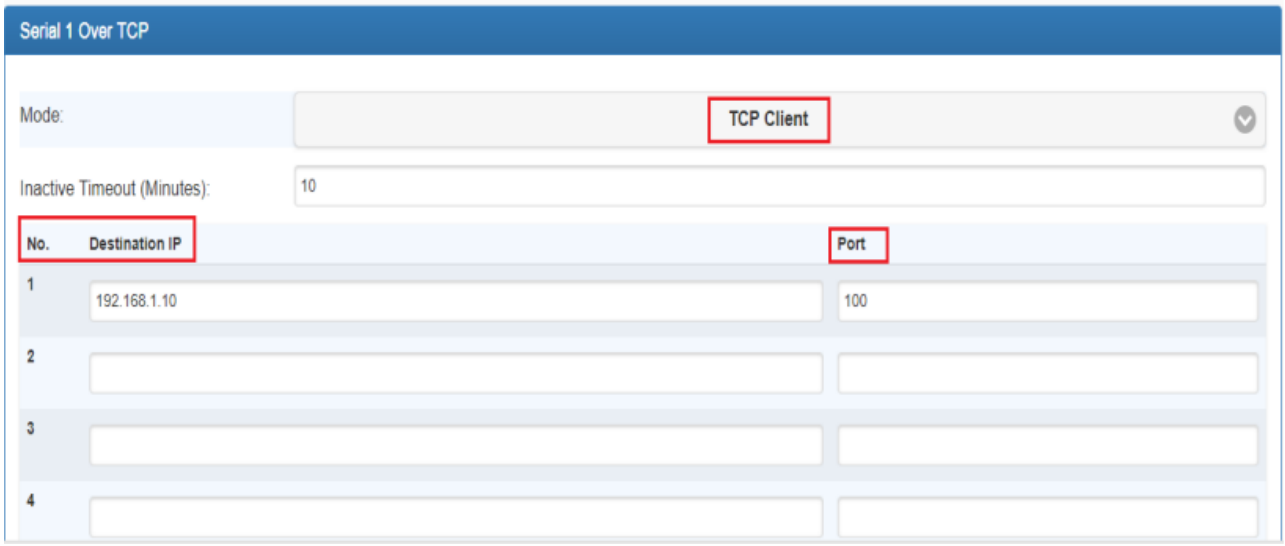
2.2.4 Serial Port Overt TCP/IP Setup

There are TCP modes for selection: TCP Server / TCP Client / UDP



1. Configure as TCP Server
   Configure TCP server port number and message time out period. At this mode, this device will wait for client connection.

2. Configure as TCP Client
   Allow to configure 4 remote destination host IP address, port number. At TCP client mode, Serial Server establishes a connection with remote host and sending data to remote host actively.



3. Configure as UDP
   Picture as above TCP client mode. Allow to configure 4 remote destination host IP address, port number. At UDP mode, this Device establishes a connection with remote host and sending data to remote host actively.

2.2.5 Reset Button

If any chance you forgot the login password or have incorrect settings making this Device inoperable, upon the power is on and the "SYS" LED light on, use a point tip to press this button and hold it for more than 20 seconds the release the point tip. The Device will reboot and all the parameters will be reset to the factory default.