ST9602MD User Manual

Part 1. Safety Caution

Before using this system, please carefully read the following precautions.

✧ please not put the RX antenna near the wall or metal objects.

✧ Please not open the enclosure for any operation without manufacture's approval.

✧ **Before turning power on the TX and RX, make sure the antennas are in good connection already**.

✧ During application, the distance between RX and TX need to be longer than 10meters.

✧ Make sure no any metal objects to enter the system shell

✧ Do not remove the antenna with power. Before disassemble the antenna please make sure the power is off.

Remark: All the settings are configured before shipping. Do not change the parameters without permission.

Part 2. Package List in one package box

1*ST9602MD,
2*Manpack Antenna,
1*Battery(12V/21Ah),
1*Manpack Harness,
1*Power Cable,
1*RS232 Data Cable,
1*Battery Charger
1*Wifi Antenna
1*Hand Grip

Part 3. Interface Introduction

RF 1
WIFI
GPS
RF2

Rs232
Ethernet Interface

Indicators

On/Off

DC12V

Reset
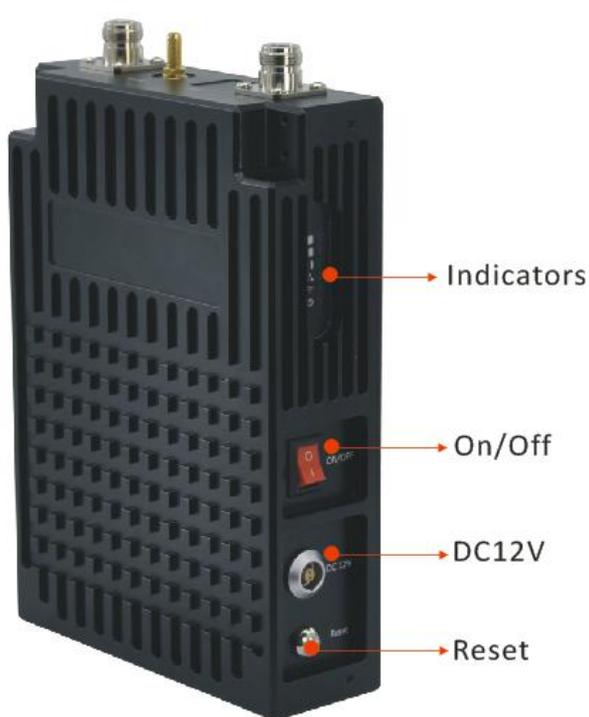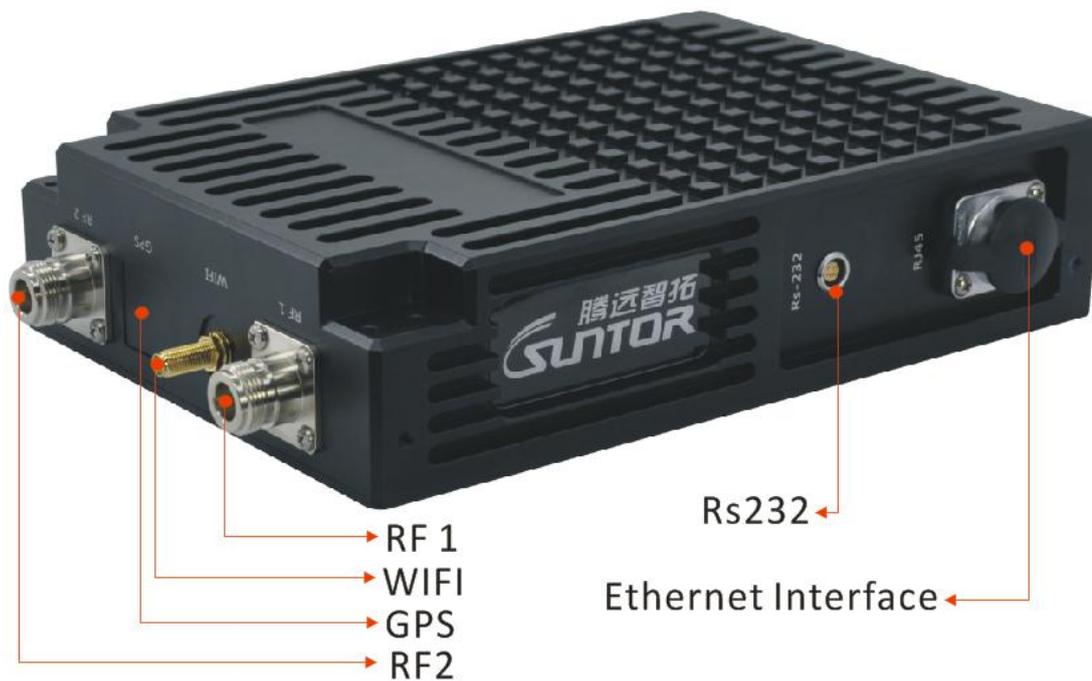
Battery

Part 4. Installation Steps

1. Put the device vertically. Then connect the antenna for each device and make sure the connection is firmly.
2. Connect the data source to the Ehternet port(RS232 port is for serial data input)
3. Connec the device with battery by power cable
4. Check all the connections are in good condition and then press the on/off button.

◇   **Note: Before disassemble the antenna, please make sure the power is off.**

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✧ **Reset Button: If you can not find the IP address during application, you can press the reset button to Restore Factory Defaults. The factory default IP: 192.168.17.1**

Part 5. Network

1. **Firstly, keep the gateway of PC and ST9602MD same.**
For example, ST9602MDD IP address: 192.168.17.222
You need to set PC IP Address: 192.168.17.X(X=2~253 any number between 2~253, except 222)
subnet mask: 255.255.255.0

2. **Log In**
Open IE browser, input ST9602MD IP address: 192.168.1.222. User Name: admin. Password: no pass work, keep it blank.
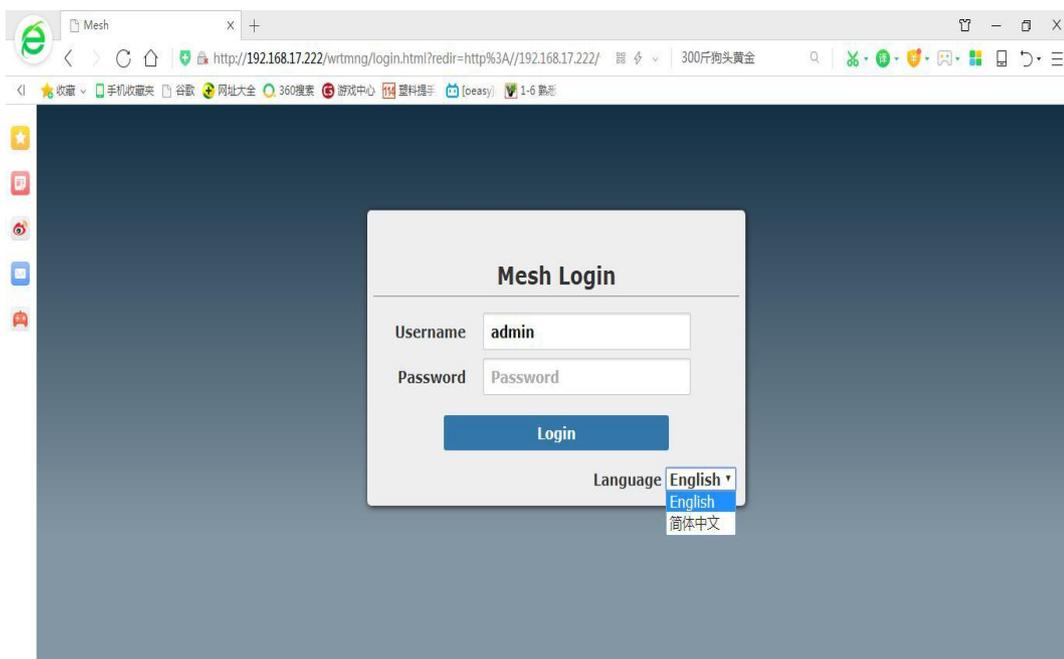
There are three lable on the home screen: Mode, Status and Settings
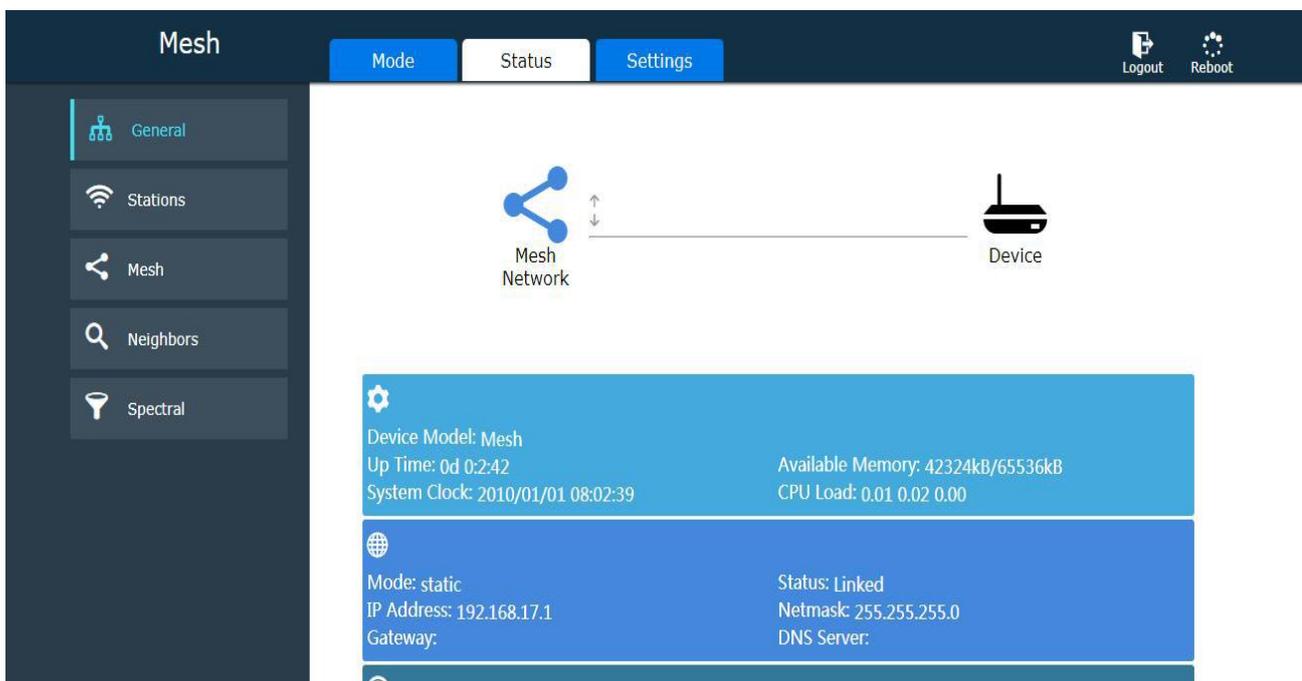
3. **Change IP Address**

Settings→Network→Network Management

4. **Create a new network interface**

Mode→MESH→Next Step

Choose wireless enable→Input Name→Choose Authorization→Set Password→Next Step

Setting finish→Click Apply(After you click Apply, the System configuration need a long time to complete. Please wait patiently and not take other operation)

5. **Wifi Covering**
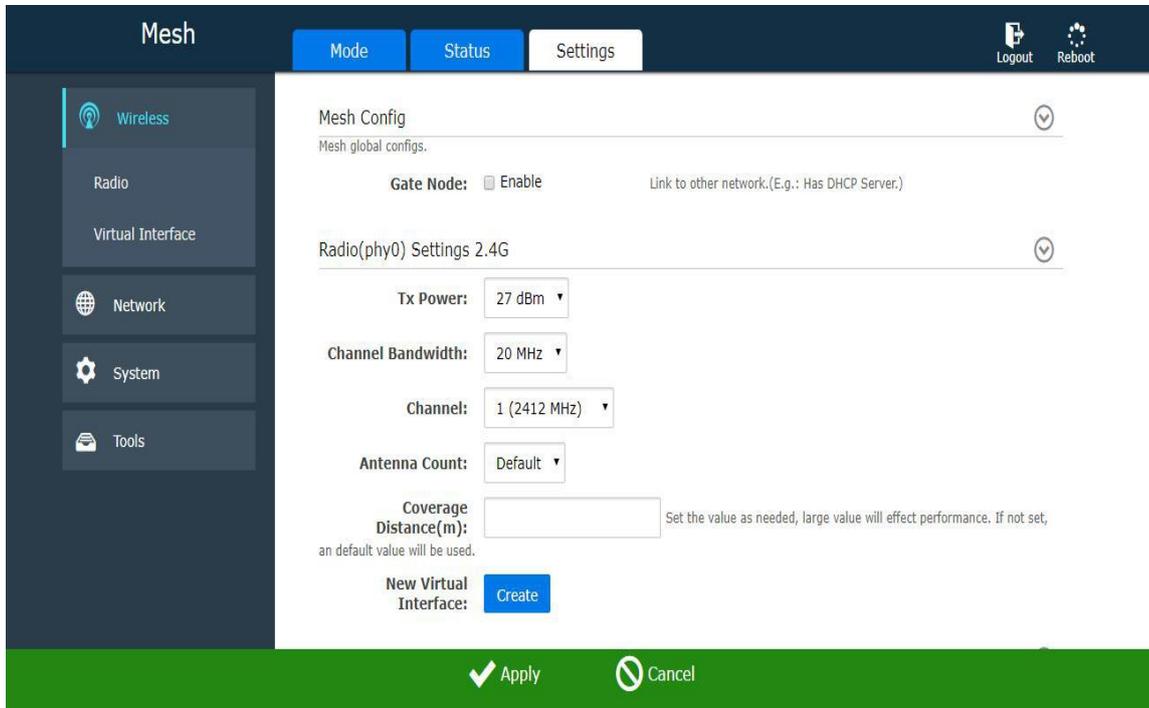
Setting→Wireless(2.4Ghz)→Create(As shown above)
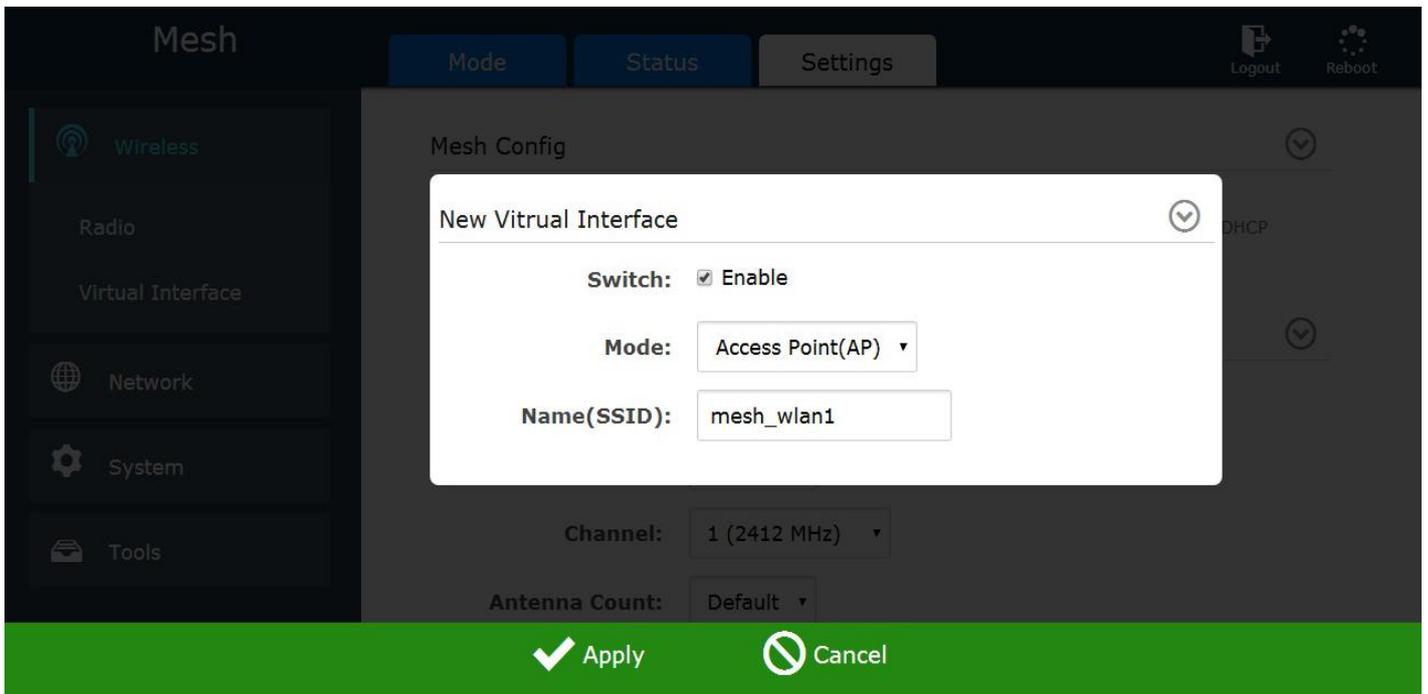
As shown above: Choose the Enable→Mode Access Point(AP)→Input Name→Click Apply

At the bottom of the window, Open DHCP and input Start IP Address and End IP Address. As shown below:

After finishing the creating, click the apply.(After you click Apply, the System configuration need a long time to complete. Please wait patiently and not take other operation)

6. Check the network status

Using other equipment to research the network of ST9602MD and connect its network. After connecting successful, MESH→Status→Stations→Choose Auto Refresh. Then you can get the connection information. Such as the quantity of connected equipments, IP Address and signal strength

7. Restore Factory Defaults

Settings→System→Click Restore→Click ok
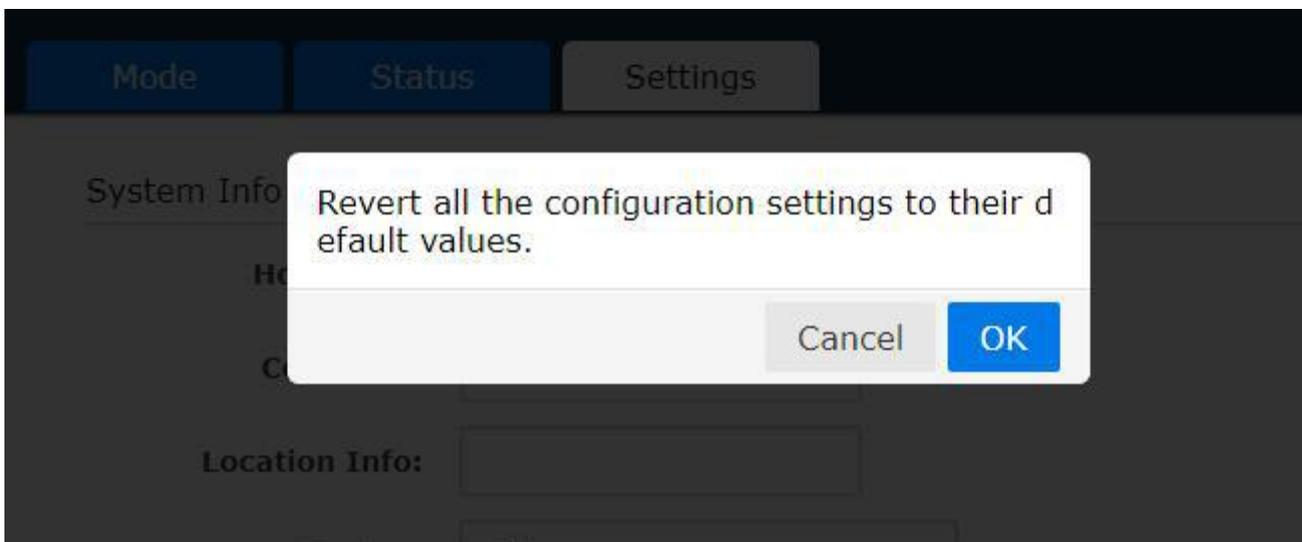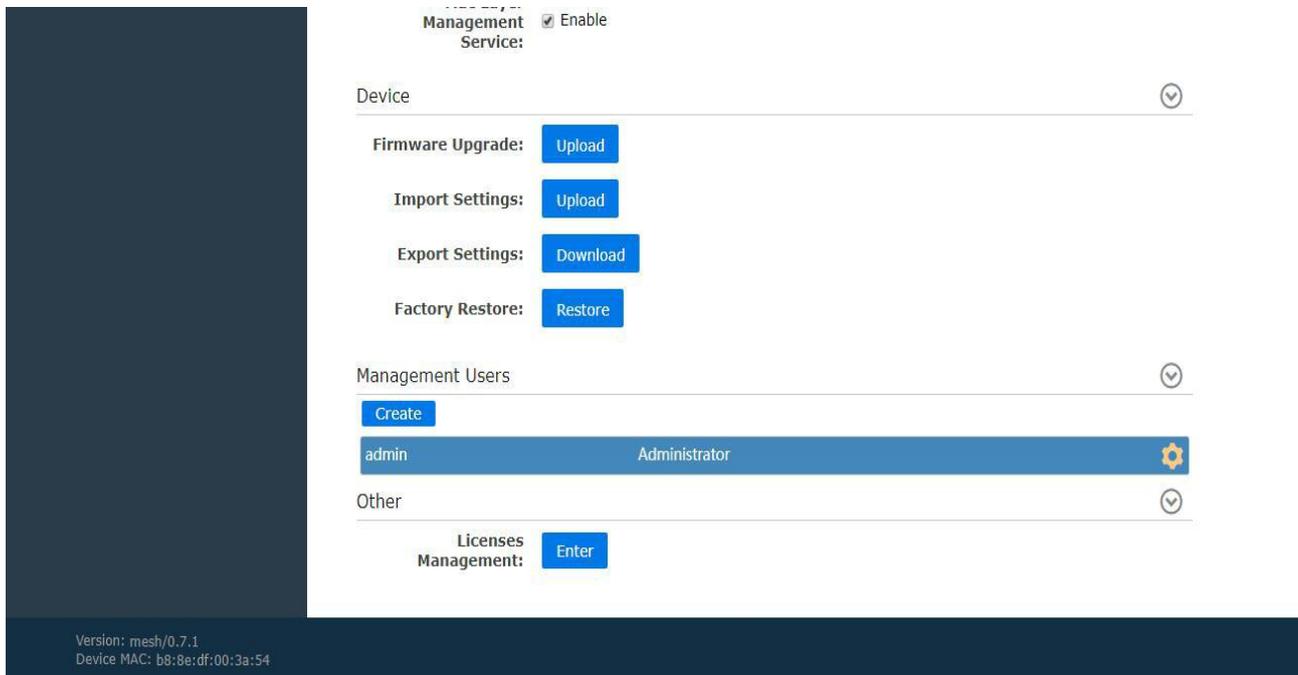
Note: After the Restore Factory Defaults, the IP will be 192.168.17.1

8. MESH topological graph

8.1. According to the application environment to adjust the parameters and frequency
Tx Power Setting
Longer distance need bigger Tx Power, Short distance need smaller Tx Power

Channel Bandwidth Settting

In more barriers environment, settng banwidth smaller. In Open air, make the bandwidth bigger

Frequency Setting

According to application enviroment to advoid the same frequency with other arounding electronics equipment.

Antenna Quantity Setting

Choose antenna count 2

Covering Distance Setting

According to application environment to set the communication distance(Unit: meter)

8.2. MESH topological graph

Click Status→Topology(Note: Choose auto refresh)