

# USR-G806 User Manual

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# 1. Overview

Product link:

<http://www.usriot.com/p/wifi-4g-lte-router/>



**Figure 1 Download Page**

If user has any question, please submit it back to customer center: <http://h.usriot.com>

## 1.1. Brief introduction

USR-G806 supports WAN, LAN, WLAN and 4G interface. User can access to 3G/4G network by WLAN interface or Ethernet interface.

## 1.2. Product feature

- One RJ45 for WAN/LAN port. 1 RJ45 for LAN port only. (10/100M)
- Support 1 WLAN(802.11b/g/n)
- Support Web Server
- Support LED to show work status
- Support Reload button to restore default settings by hardware way
- Support VPN client(PPTP/L2TP)
- Support one SIM card socket
- Support DDNS and port forwarding
- Support QoS and firewall

### 1.3. Hardware introduction

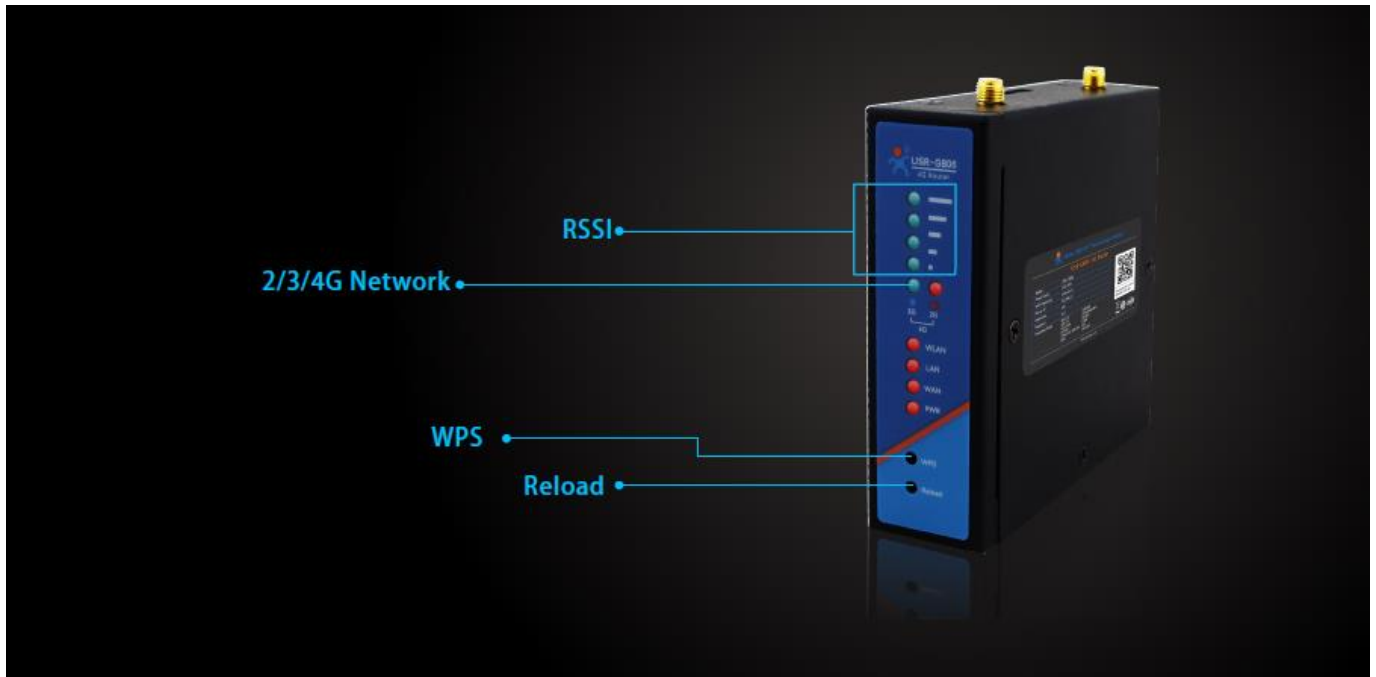
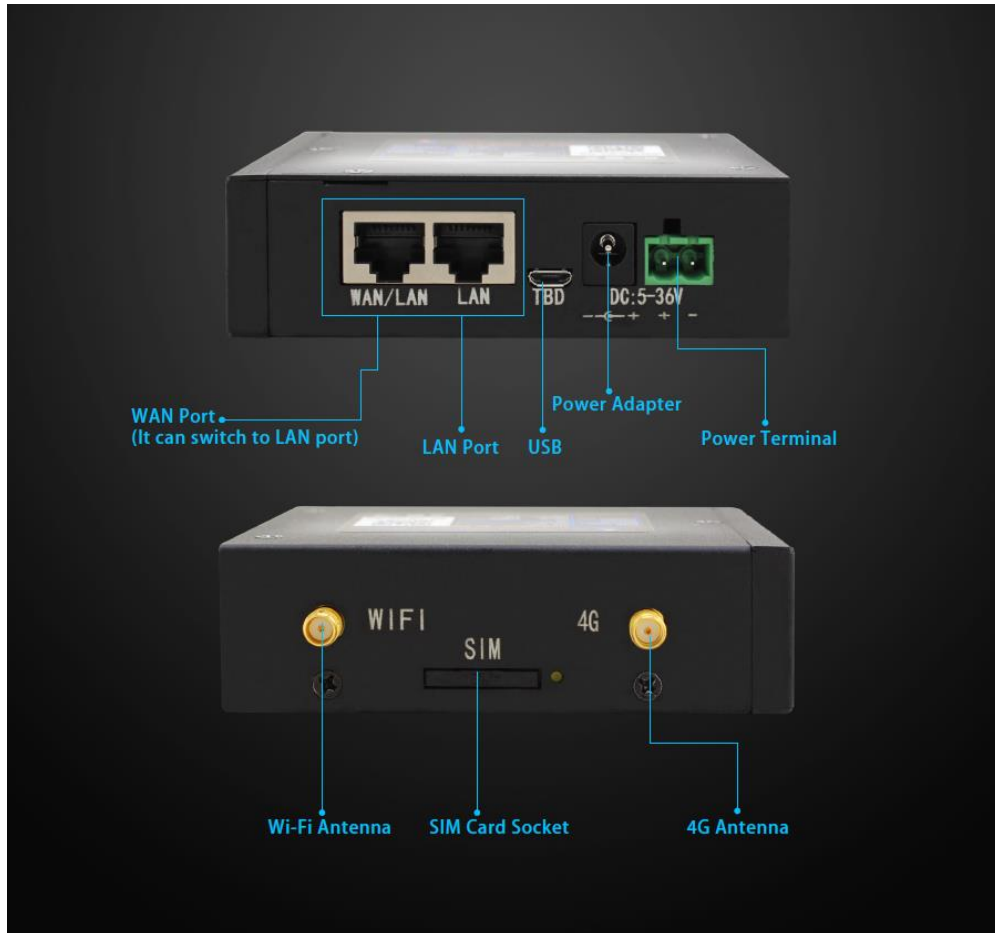


Figure 2 LED

LED	Function	
RSSI	The more green LEDs lighten, the signal is stronger.	
2G	2G:On 3G:Off	2G network accessing
	2G:Off 3G:On	3G network accessing
3G	2G:On 3G:On	4G network accessing
WLAN	On: Wi-Fi enabled	Off: Wi-Fi disabled
LAN	Blink: LAN port working	Off: LAN port not working
WAN	Blink: WAN/LAN port working	Off: WAN/LAN port not working
PWR	On: Power on	Off: Power off
Button	Function	
WPS	Reserved	
Reload	Restore default settings	

Figure 3 LED functions


**Figure 4 Interface**

## 1.4. Band

USR-G806 has different band model to support different area. To check if the USR-G806 works in specific country, please check which 3G/4G technology and band is used in this country and operator. Then please contrast our form of different model.

G806	Asia
G806-43	Asia
G806-E	Europe
G806-V	America Verizon
G806-A	America AT&T
G806-AU	Australia

**Figure 5 Different G806 type**

	G806 Operating Band
FDD-LTE	1
	3
TDD-LTE	38
	39
	40
	41

WCDMA	1
	8
GPRS	3
	8

**Figure 6 Band of USR-G806**

G806-43 Operating Band	
FDD-LTE	1
	3
	8
TDD-LTE	38
	39
	40
	41
WCDMA	1
	8
CDMA1X	800MHz
CDMA2000-EVDO	
GPRS	3
	8

**Figure 7 Band of G806-43**

G806-E Operating Band	
FDD-LTE	1
	3
	5
	7
	8
	20
TDD-LTE	38
	40
	41
WCDMA	1
	5
	8
GPRS	3
	8

**Figure 8 Band of G806-E**

G806-V Operating Band	
FDD-LTE	4
	13

**Figure 9 Band of G806-V**

	G806-A Operating Band
FDD-LTE	2
	4
	12
WCDMA	2
	4
	5

**Figure 10 Band of G806-A**

	G806-AU Operating Band
FDD-LTE	1
	2
	3
	4
	5
	7
	8
	28
TDD-LTE	40
WCDMA	1
	2
	5
	8
GPRS	2
	3
	5
	8

**Figure 11 Band of G806-AU**

## 2. Product Functions

This chapter introduces the functions of USR-G806, as the following diagram shown, you can get an overall knowledge of it.



Figure 12 Product function

### 2.1. Install procedure

- (1) Connect the 4G antenna and Wi-Fi antenna to the router. (Longer one is 3G/4G antenna and Shorter one is Wi-Fi antenna.)
- (2) Plug the SIM card in socket.
- (3) Power on the module by power adaptor and check the LED status.
- (4) Connect PC or mobile to the G806 router via LAN interface or Wi-Fi interface. Wi-Fi password is "www.usr.cn".
- (5) Log in Web Server of router. (Default IP address of router is 192.168.1.1, either the username and password is "root".)
- (6) Configure APN parameters according to SIM card. Some SIM card APN can be recognized automatically.(Network->APNSET)
- (7) Configure other parameters according to user applications.

### 2.2. APN

APN configuration by Web Server as follow:

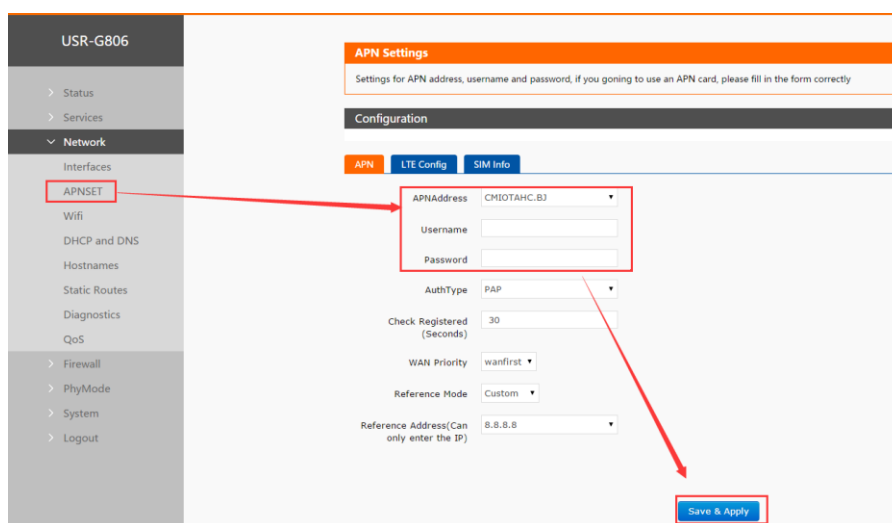
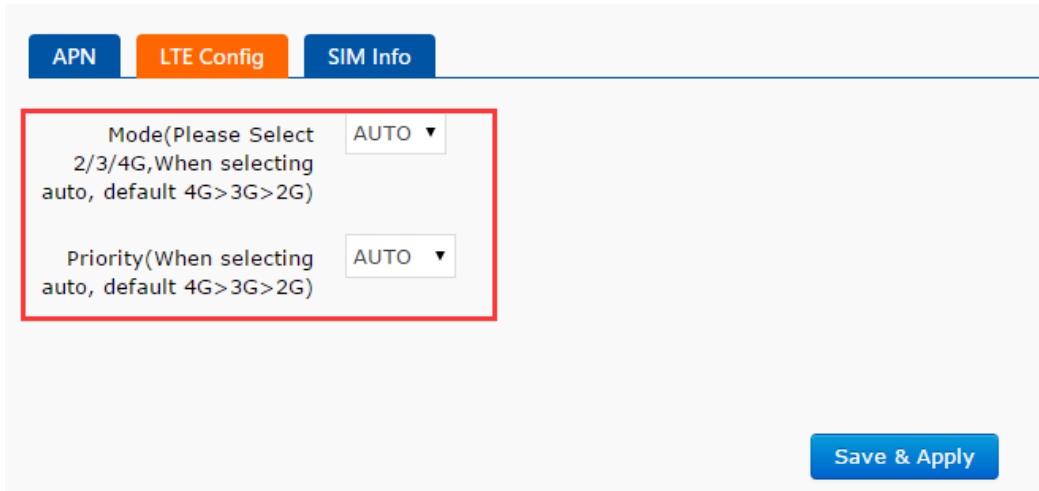


Figure 13 APN configuration



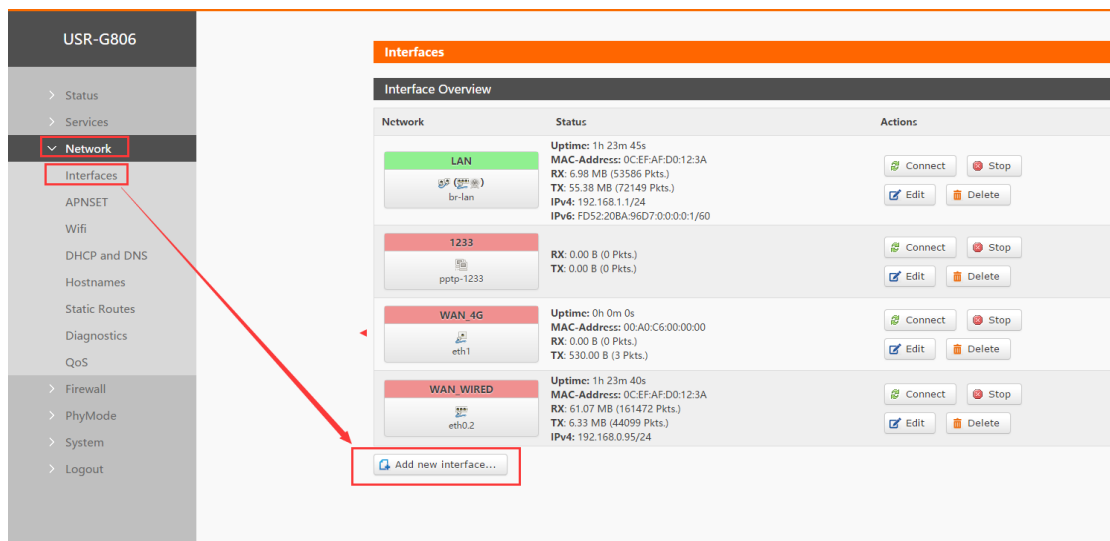
To choose the network type, please configure the LTE configuration.



**Figure 14 LTE configuration**

### 2.2.1. Create a VPN client

User can set VPN client configuration by Web Server as follow:



**Figure 15 VPN Client**

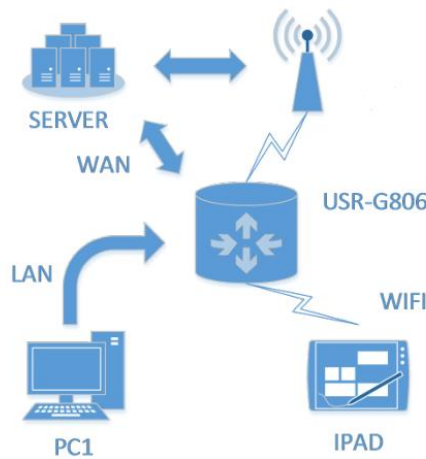
## 2.3. Networking mode

### 2.3.1. WAN+LAN+4G

In this networking mode, user can access internet through WAN interface and 4G interface. WAN interface has higher priority than 4G interface to ensure communication and save 4G flows. When WAN interface occurs problems, router can change to 4G interface to connect internet. In this mode, user can also connect to router through WIFI.

To achieve this mode, user don't need to change the router's parameters. Just connect the cable to router and insert SIM card, then power the router.

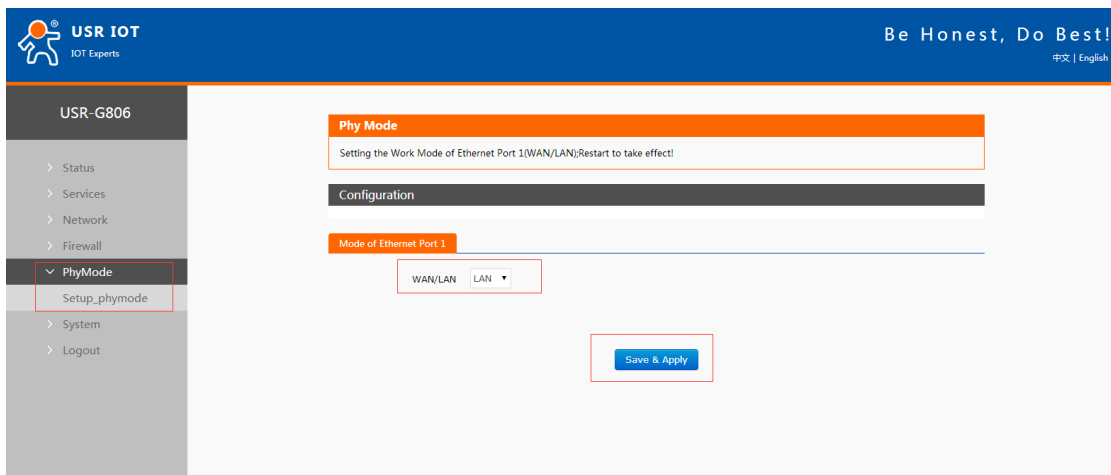
Application diagram as follow:



**Figure 16 WAN+LAN+4G networking**

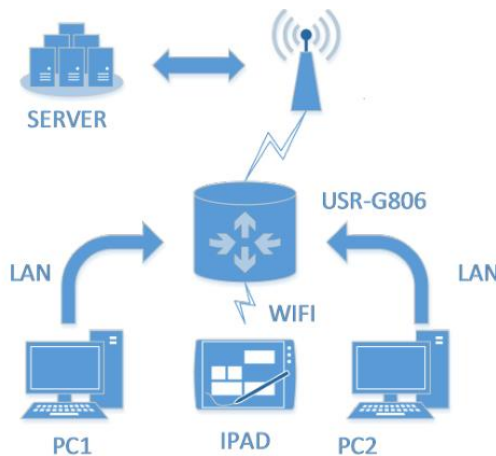
### 2.3.2. LAN+LAN+4G

In this networking mode, two devices can connect to router through LAN and access the Internet by 4G network. User can achieve this by Web Server as follow:



**Figure 17 Switch WAN/LAN interface**

Application diagram as follow:

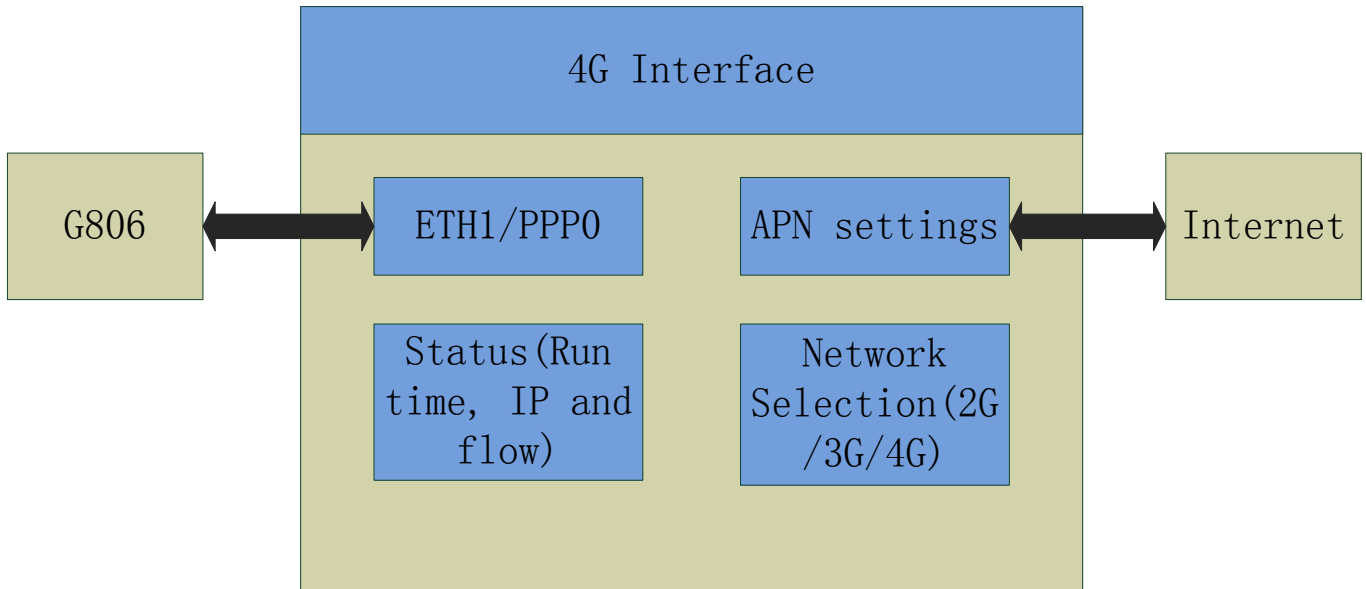


**Figure 18 LAN+LAN+4G networking**

## 2.4. Common functions

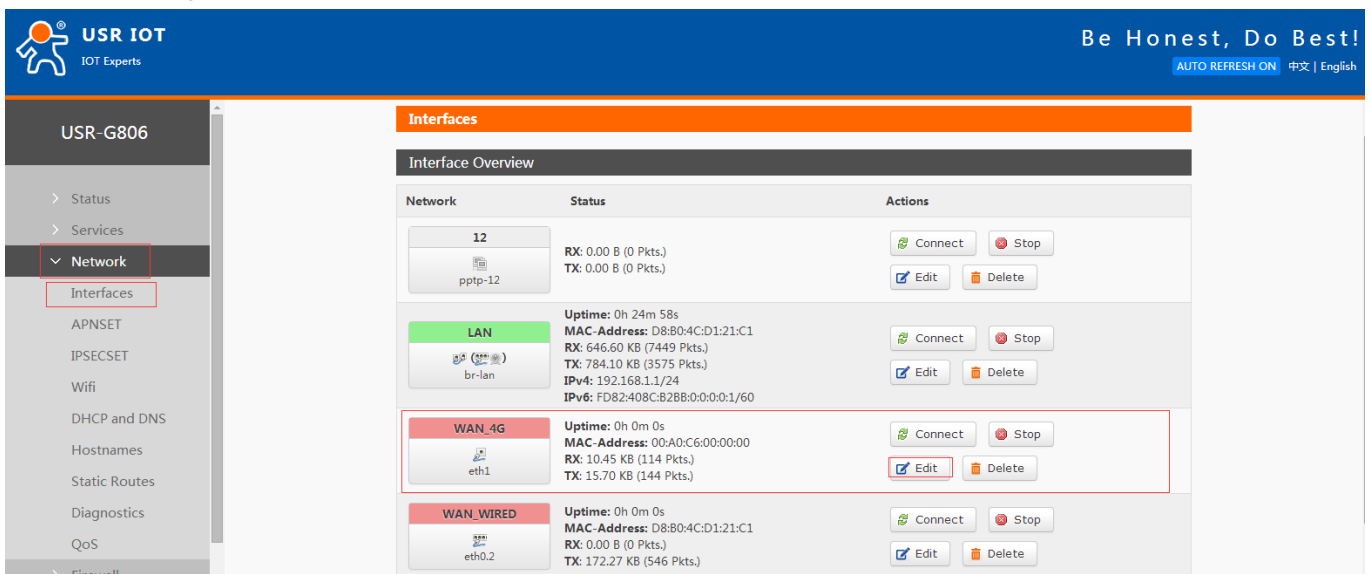
### 2.4.1. 4G interface

G806 supports one 4G interface to access internet. Functional diagram as follow:



**Figure 19 4G interface**

User can configure 4G interface by Web Server as follow:



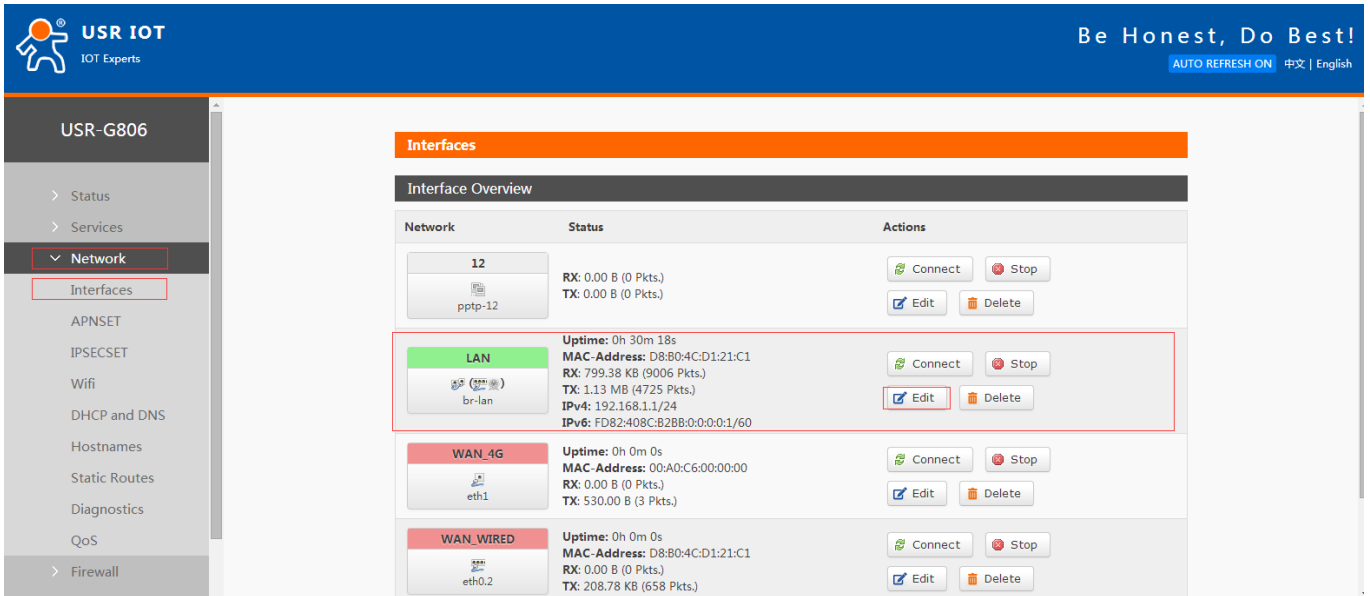
**Figure 20 4G interface**

### 2.4.2. LAN interface

G806 supports two LAN interface (one is WAN/LAN interface).

Default settings: One LAN interface (WAN/LAN used as WAN interface; IP address: 192.168.1.1; Subnet mask: 255.255.255.0; Open DHCP function).

User can configure LAN interface by Web Server as follow:

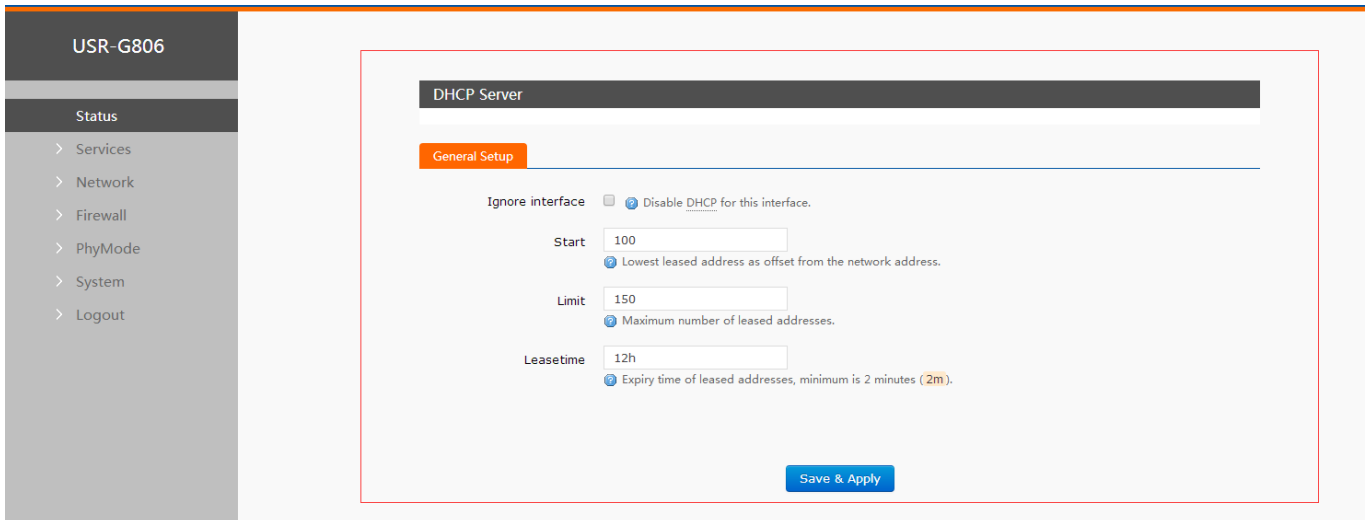


**Figure 21 LAN interface**

### 2.4.2.1. DHCP Function

DHCP default range of distribution is from 192.168.1.100 to 192.168.1.250 and default address lease time is 12 hours. Address range and lease time can be changed.

After you enter Web Server LAN interface, you can find 'DHCP Server' on Web Server as follow:

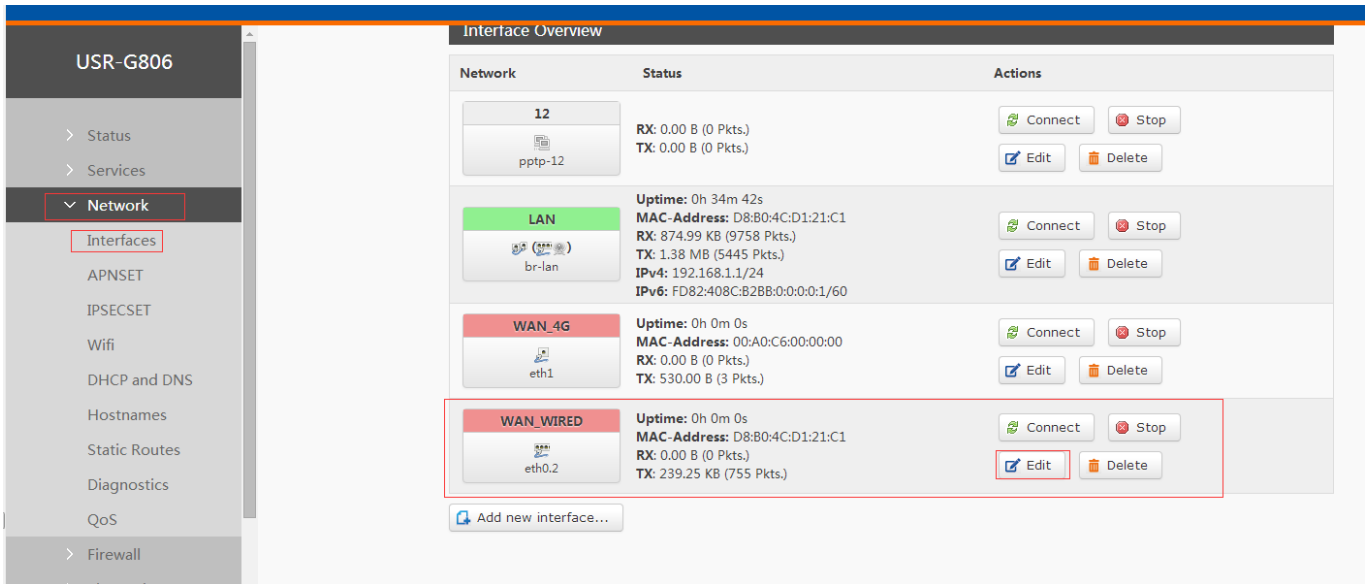


**Figure 22 DHCP function**

### 2.4.3. WAN interface

G806 supports one WAN interface and WAN interface can switch between WAN/LAN interface. WAN interface supports DHCP and Static IP, and default setting is DHCP.

User can configure WAN interface by Web Server as follow:


**Figure 23 WAN interface**

### 2.4.4. WLAN interface

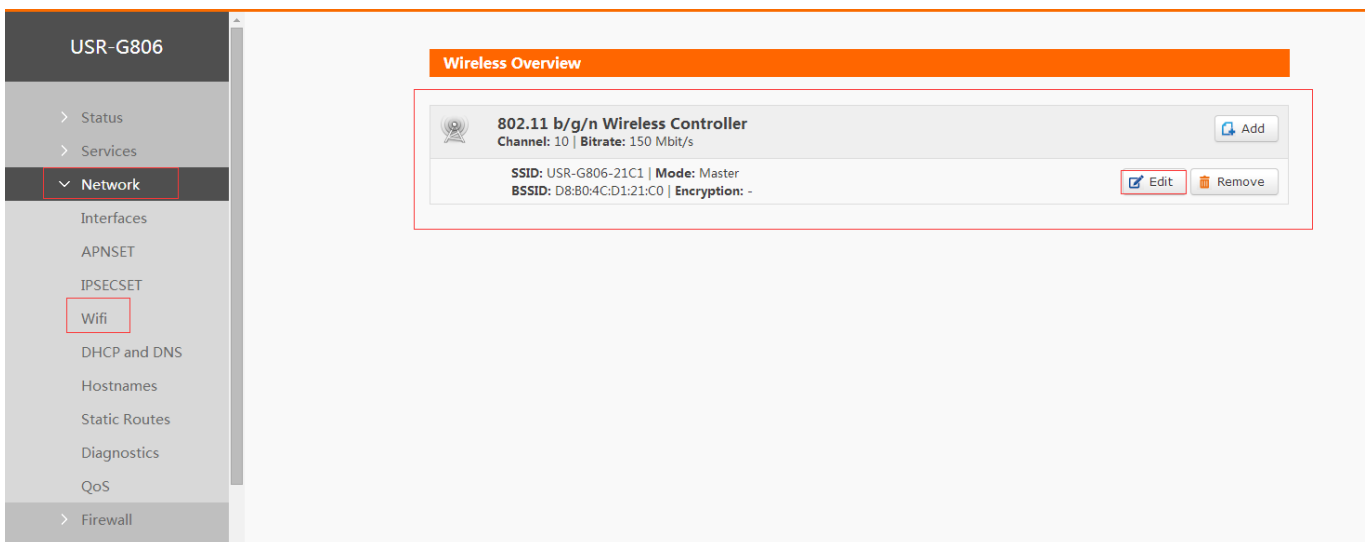
G806 supports at most 24 STA device connection.

Default parameters as follows:

SSID	USR-G806-XXXX(XXXX is MAC)
Password	www.usr.cn
Channel	Auto
Bandwidth	40MHz
Encryption Mode	WPA2-PSK

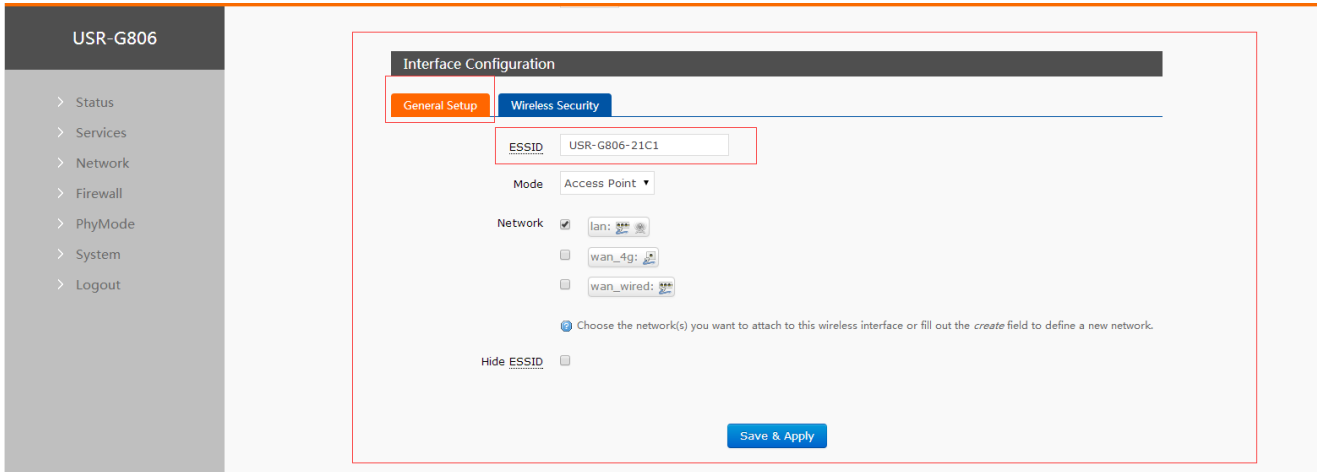
**Figure 24 WALN default parameters**

WLAN interface on Web Server as follow:


**Figure 25 WLAN interface**

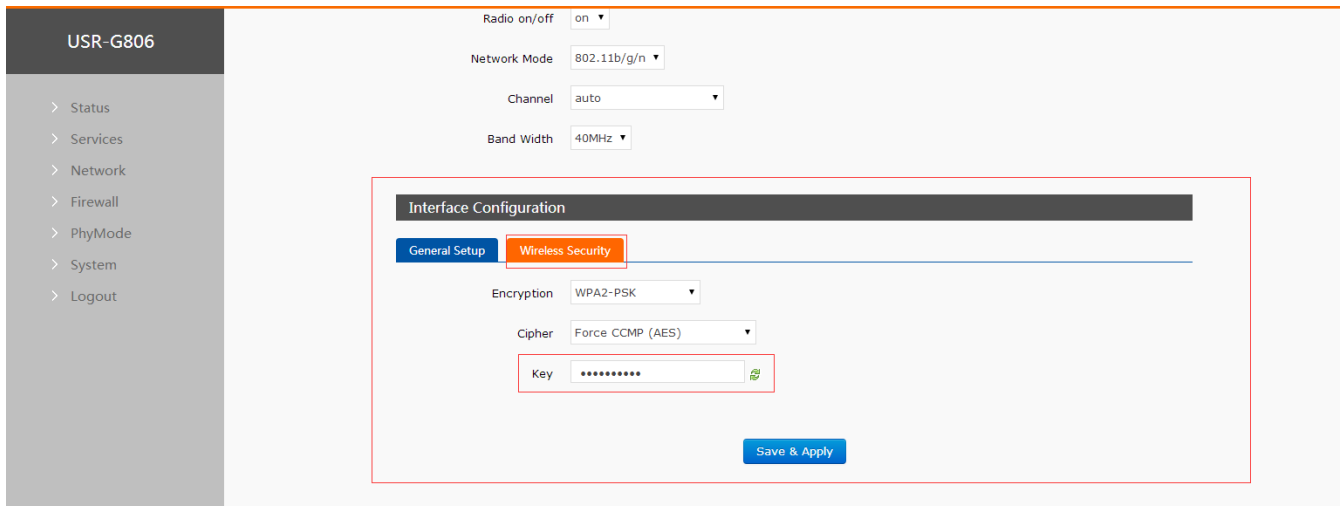
After clicking “Edit” and entering WLAN interface configuration web, user can change follow parameters.

User can configure SSID on Web Server as follow:



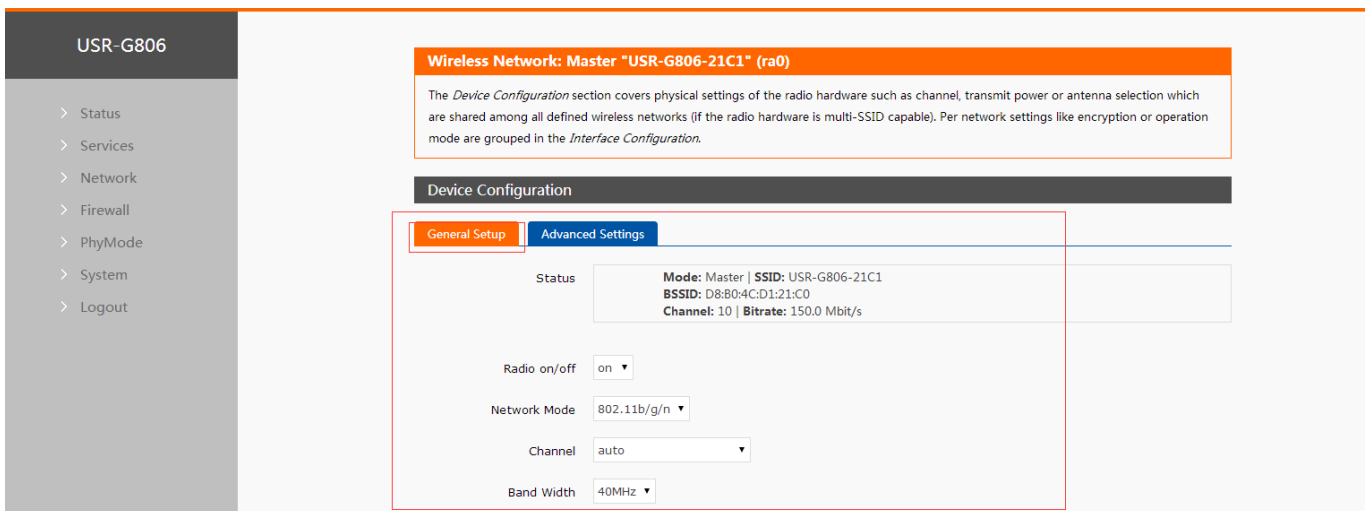
**Figure 26 Configure SSID**

User can configure password on Web Server as follow:



**Figure 27 Configure password**

Other settings on Web Server as follow:

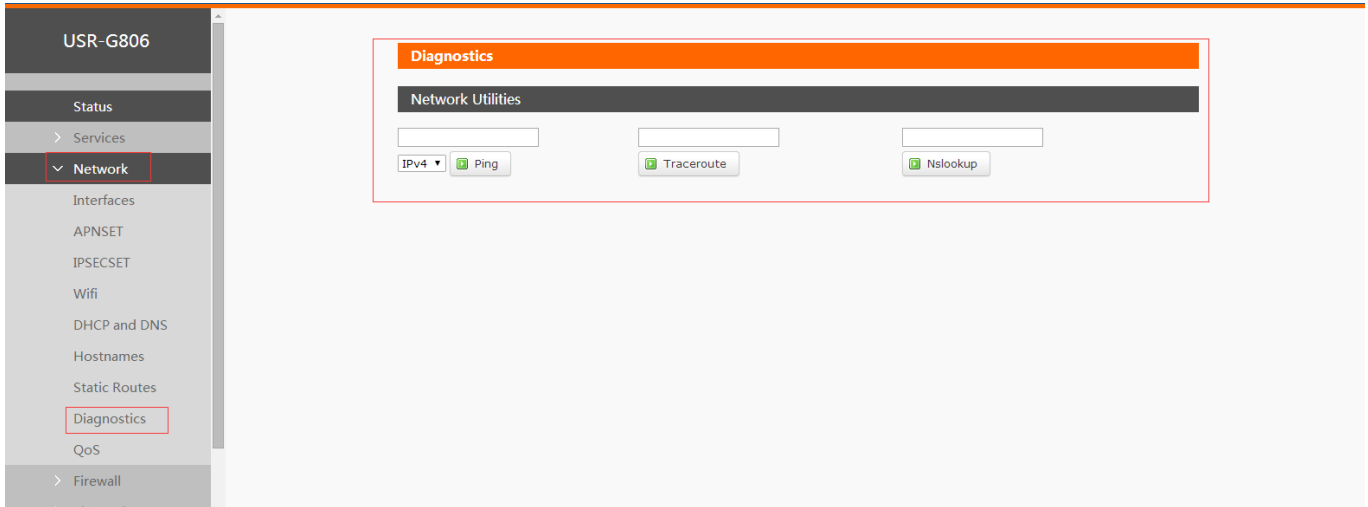


**Figure 28 Other settings**

User can close WLAN interface by changing 'Radio on/off' into off.

## 2.4.5. Network Diagnosis

User can use network diagnosis function by Web Server as follow:



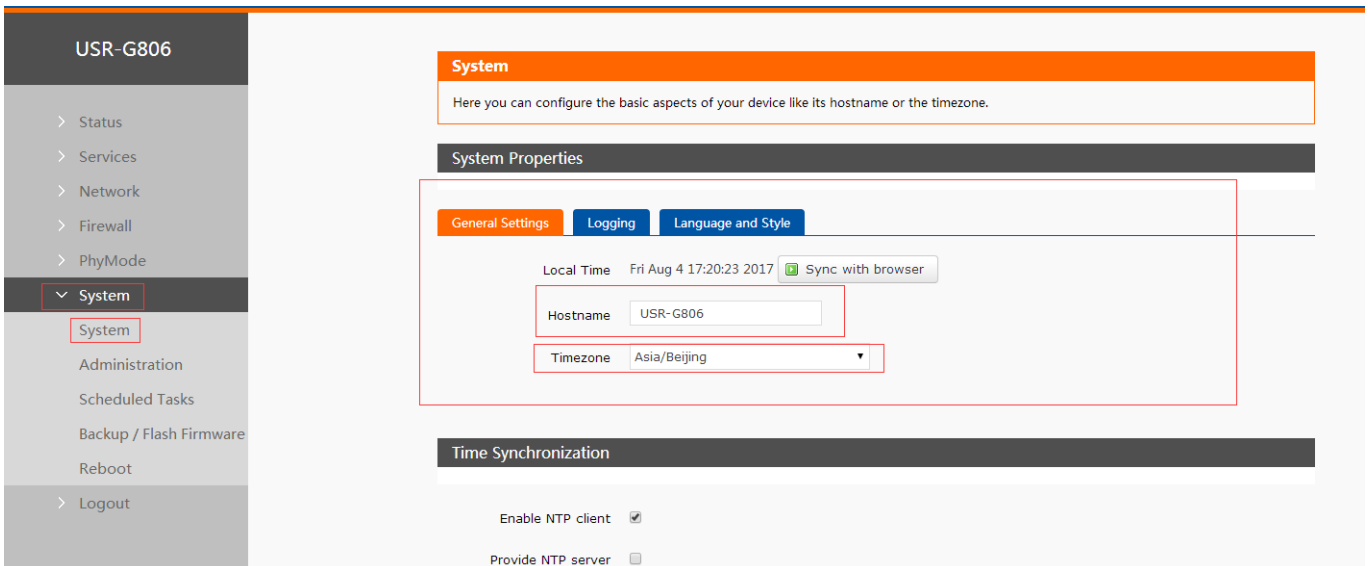
**Figure 29 Network diagnosis**

- Ping: User can do PING test to a specific address in G806.
- Traceroute: Can acquire routing path to visit a specific address.
- Nslookup: Can analyse DNS into IP address

## 2.4.6. Module Name and Time Zone

G806 default module name is USR-G806 and default Time Zone is Beijing time zone.

User can configure module name and Time Zone by Web Server as follow:



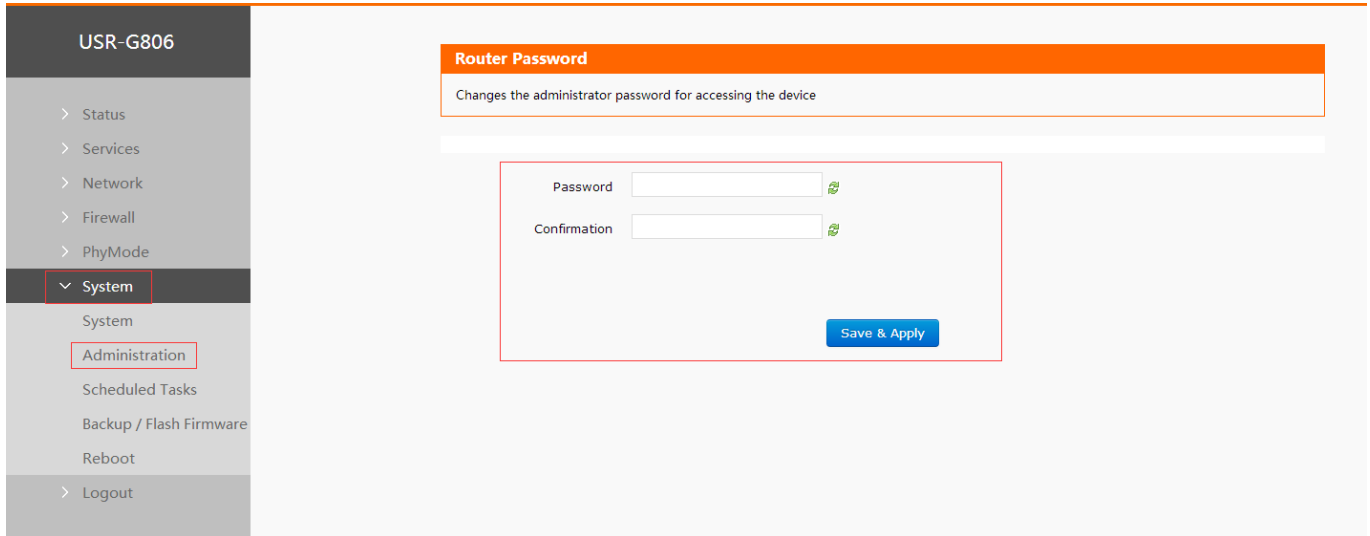
**Figure 30 Module name and Time Zone**

## 2.5. Basic Functions

### 2.5.1. Web Server Password

Default password is root, this password is used to enter Web Server.

User can change password by Web Server as follow:

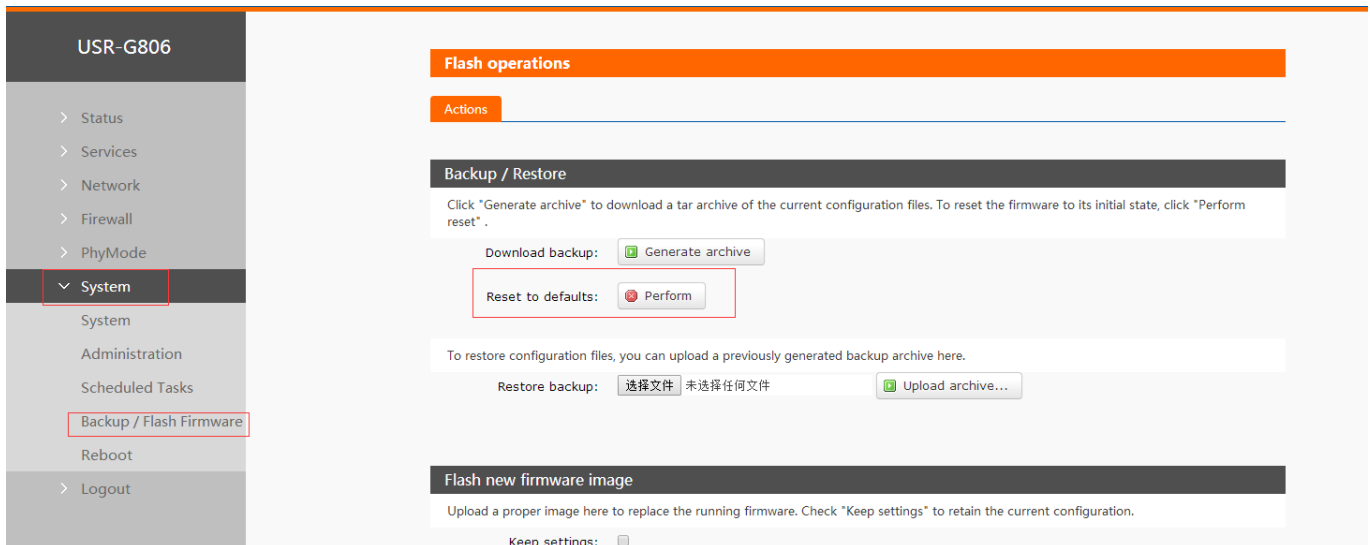


**Figure 31 Change Web Server password**

### 2.5.2. Restore

Hardware restore: Press Reload button over 5 seconds and release, G806 will restore default settings and reset.

User can restore default settings by Web Server as follow:

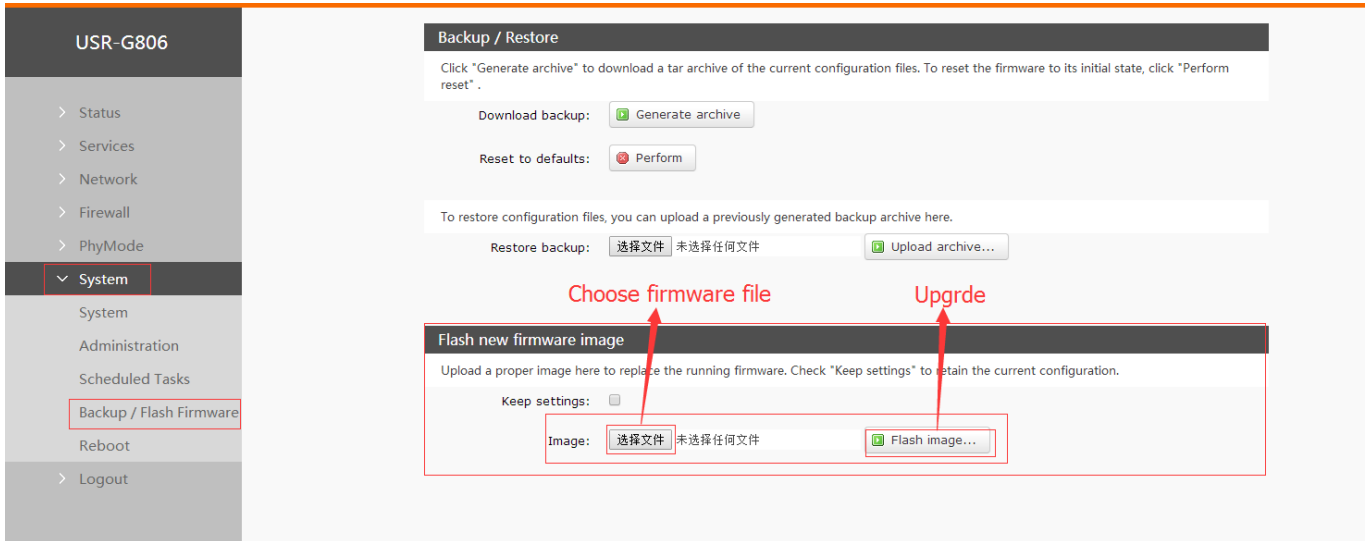


**Figure 32 Restore default settings**

### 2.5.3. Upgrade Firmware Version

Upgrade by Web Server as follow:





**Figure 33 Upgrade firmware version**

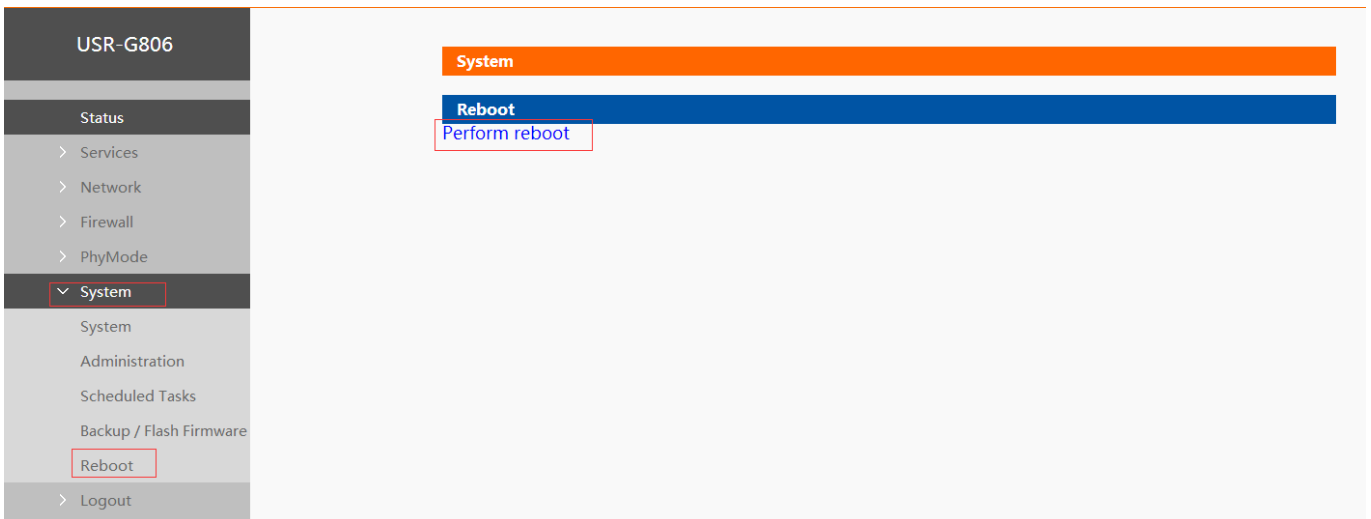
**Note:**

- The whole upgrade process will last about 1 minute, user can enter Web Server after about 1 minute.
- User can choose saving settings.
- User should keep powering up and LAN/WIFI connection during the whole upgrade process.

**2.5.4. Reset**

Reset time is about 40~60 seconds.

Reset by Web Server as follow:



**Figure 34 Reset module**

### 3. Web Server

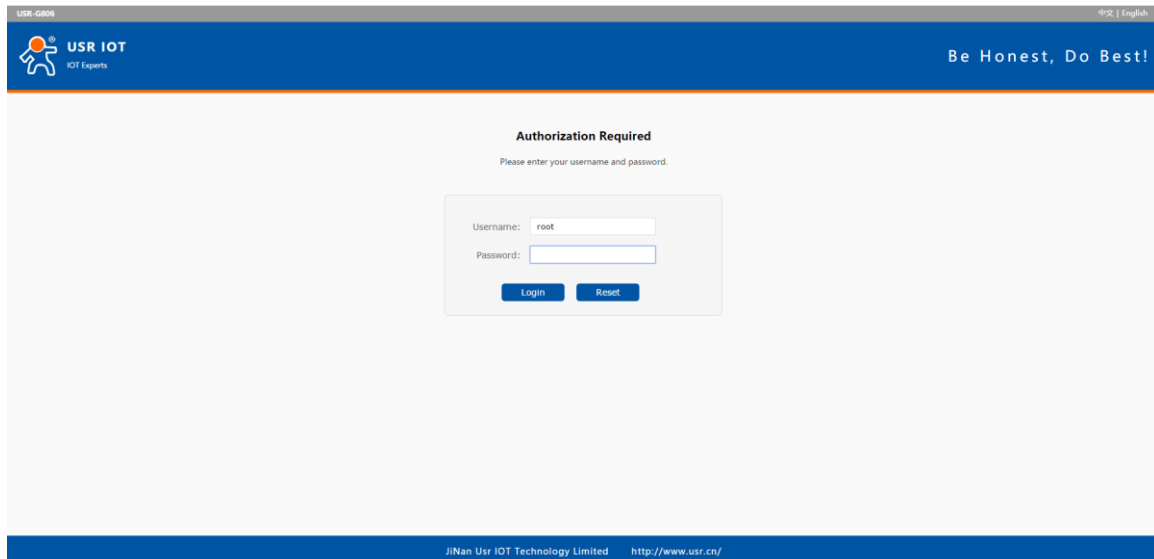
When user need to configure the G806, user can connect PC to USR-G806 through LAN interface or WLAN, then open Web Server.

Default parameters of G806 as follows:

SSID	USR-G806-XXXX
IP Address	192.168.1.1
User name	root
Password	root
WLAN Password	www.usr.cn

**Figure 35 Default parameters**

Take default parameters as example: User can connect PC to SSID USR-G806-XXXX. Then open browser and enter 192.168.1.1, log in with User name and Password(both are root), user can enter Web Server.



**Figure 36 Web Server login web**

User can change the language between Chinese/English in the top right corner.

## 4. Contact us

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## 5. Disclaimer

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## 6. Updated History

2017-08-02 V1.0.4.1 established based on Chinese version V1.0.4.

2017-11-09 V1.0.4.2 updated. Modified some words to standards and corrected spelling/grammatical mistakes. Optimized whole manual arrangement. Changed related pictures to new G806 pictures.

2018-01-05 V1.0.4.3 updated. Changed related pictures to normal G806 version pictures. Optimized whole manual arrangement. Divided G806 user manual into normal version and G806-A version.