

USR-G800-42 User Manual

File Version: V1.0.5



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1. Quick Start

USR-G800-42 is a 4G wireless router which provides a solution for user's device to access 4G network. It is based on industrial high-performance embedded structure. And plays an important role in data transmission fields such as smart home, industrial control etc.

This chapter aims at getting start USR-G800-42 quickly. It's recommended that user read this chapter systemically and operate it according to instructions.

Any questions can be submitted to our customer support center: [Http://h.usriot.com](http://h.usriot.com)

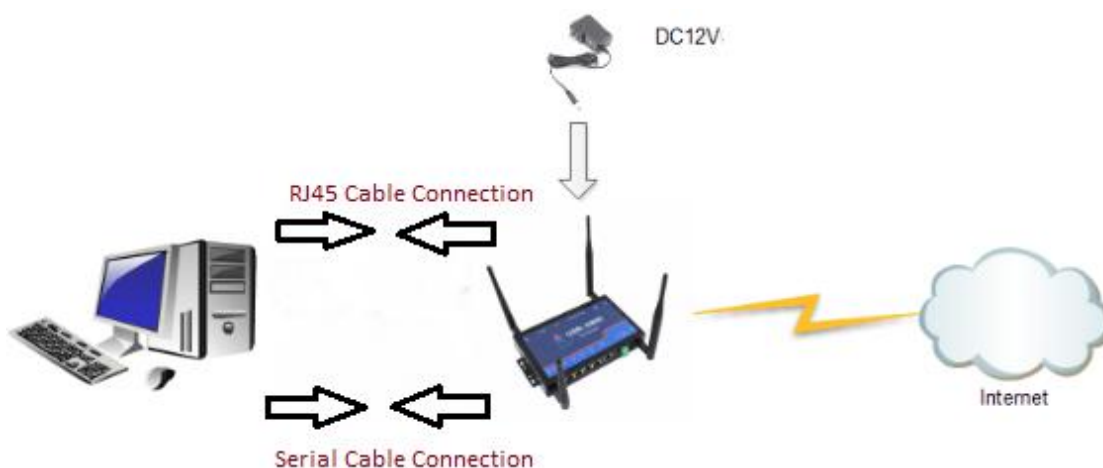
1.1. Hardware Tset Environment

Connect USR-G800-42 with PC by RS232 serial cable and RJ45 cable.

<Note>:

1. RS232 serial cable have to be female to female cross line
2. Four LAN ports, one of them (LAN1-LAN4) can be connected with PC

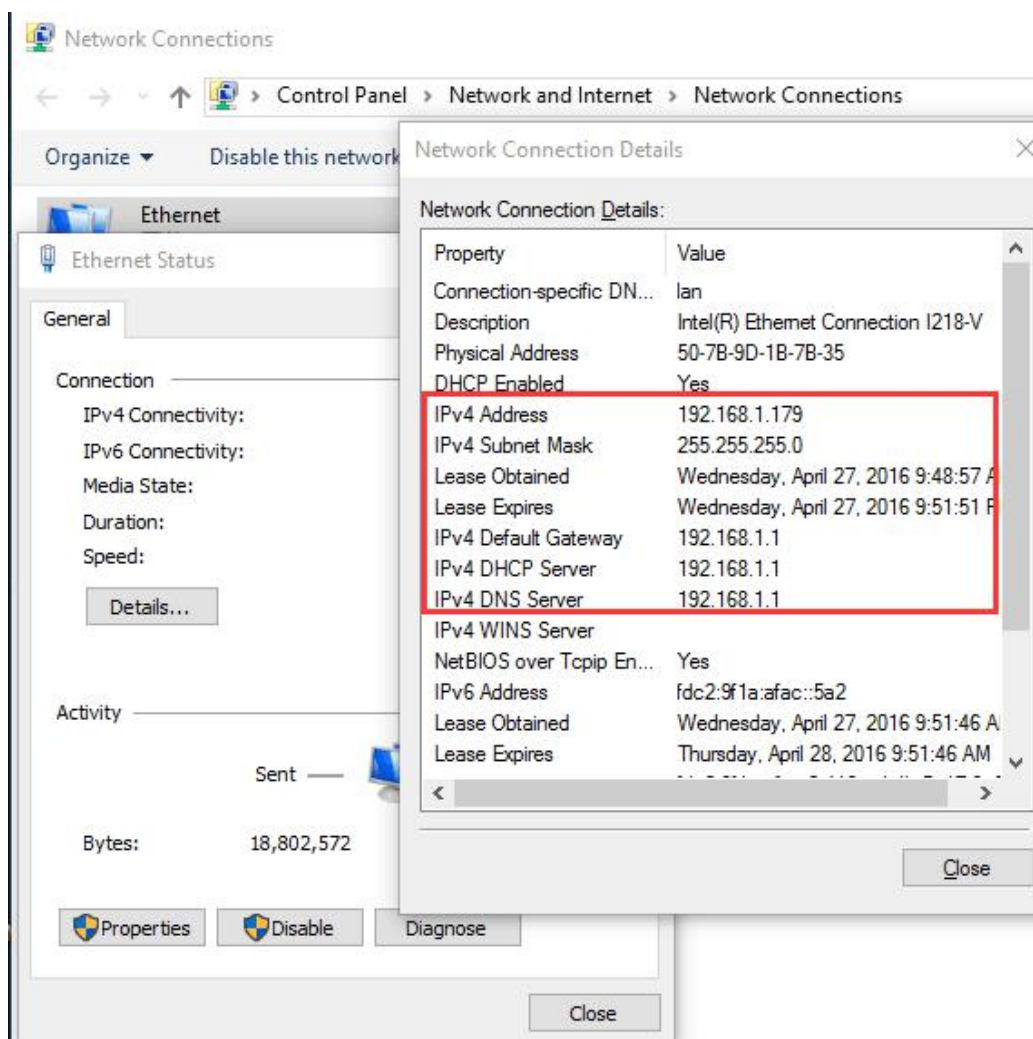
Hardware connection as below:



1.2. Network Connection

Please refer to the following steps:

1. Put SIM card into router
2. Install WIFI antenna and 4G antenna
3. Connect PC and router by RJ45 cable, anyone of LAN port (LAN1-LAN4) can be connected.
4. Configure PC's network connection. Choose to obtain IP automatically, such as the below:



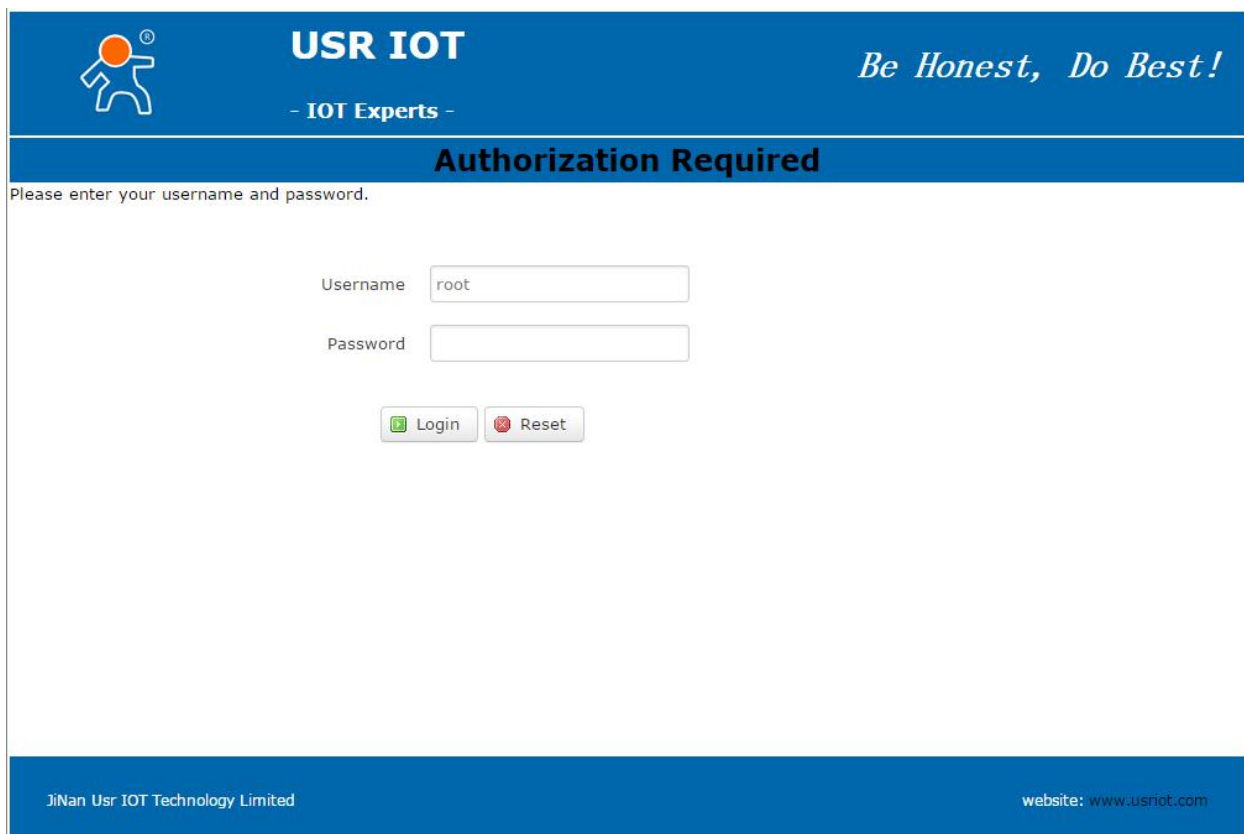
5. Power on router by DC 12V
6. Indicate that the connection is successful when indicating light of USR-G800-42 starts to blink

1.3. Data Transmission Test

Parameter of USR-G800-42:

Parameter	Primary Value
User's Name	root
Password	root
Self IP Address	192.168.1.1

Enter <http://192.168.1.1> to open web page of router:



The screenshot shows the web interface of a USR IOT router. At the top, there is a blue header with the USR IOT logo on the left, the text "USR IOT" in the center, and the slogan "Be Honest, Do Best!" on the right. Below the header, a dark blue bar contains the text "Authorization Required". Underneath, a message says "Please enter your username and password." There are two input fields: "Username" with the value "root" and "Password" which is empty. Below the fields are two buttons: "Login" (with a green arrow icon) and "Reset" (with a red 'X' icon). At the bottom of the page, a blue footer contains the text "JiNan Usr IOT Technology Limited" on the left and "website: www.usriot.com" on the right.

2. Product Introduction

USR-G800-42 is a 4G wireless router which provides a solution for user's device to access 4G network. It is based on industrial high-performance embedded structure. And plays an important role in data transmission fields such as smart home, industrial control etc.

USR-G800-42 supports one WAN port, four LAN ports, WLAN network and 4G. It also supports data transparent transmission between RS232 serial port and 4G network.

2.1. Product Feature

- ◆ It has one WAN port and four LAN ports
- ◆ Support WLAN wireless network
- ◆ Support 4G module with Mini-PCIE interface.
 - TD-LTE: Band 38/39/40/41
 - FDD-LTE: Band 1/3
 - WCDMA: Band 1 / 8
 - TD-SCDMA: Band 34/39
 - GSM/GPRS/EDGE: Band 3/8
- ◆ Multiple indicating lights
- ◆ Data transparent transmission between RS232 and 4G network
- ◆ Web page configuration
- ◆ A key to restore factory setting
- ◆ Both LAN and WAN port with a rate of 10/100Mbps
- ◆ Support VNP (PPTP/L2TP), PPPOE, DHCP
- ◆ Support APN card, SIM card slot is in drawer type
- ◆ Firewall function and static router configured
- ◆ Support DDNS and port-forwarding
- ◆ Traffic service, and the traffic rate can be limited according to interface or IP
- ◆ Support dual SSID of WIFI
- ◆ Support WIFIDOG

2.2. USR-G800-42 Parameter

■ Product Parameter

Product Specification			
	Item	Description	
Product Name	USR-G800-42	4G Wireless Router	
Wired Ethernet	WAN Port	1 WAN Port	
	LAN Port	4 LAN Port	
	Both LAN & WAN ports support 10/100Mbps, Auto MDI/MDIX		
WIFI	Wireless Standard	802.11b/g/n	
	Antenna	WIFI Antenna * 2	
4G Module	TD-LTE	3GPP R9	
		Download rate at 150Mbps	
		Upstream rate at 50Mbps	
			Band 38/39/40/41
	FDD-LTE	3GPP R9	
		Download rate at 150Mbps	
		Upstream rate at 50Mbps	
			Band 1/3
	WCDMA	HSPA+	
		Download rate at 21Mbps	
		Upstream rate at 5.76Mbps	
			Band 1/8
TD-SCDMA	3GPP R9		
	Download rate at 2.8Mbps		
	Upstream rate at 2.2Mbps		
		Band34/39	
GSM/GPRS/EDGE	Download rate at 384Kbps		
	Upstream rate at 128Kbps		
		Band 3/8	
SIM & Antenna	SIM/USIM card	Standard 6-Pin SIM card interface,3V/1.8V SIM card	
	Antenna	3/4G full frequency antenna * 2	
Button	Reload	A key to restore factory setting	
Indicating light	Status	Power, WIFI, 4G, WAN*1, LAN*4	
Serial port	RS232	DB9 Male Plug, RS232 power level	
	Function	Data transparent transmission between RS232 and Ethernet	

Temperature	Work temperature	-20C~70C
	Store temperature	-40C~75C
Moisture	Work moisture	10%~90%
	Store moisture	5%~90%

■ Consumption Parameter

The following data is obtained from the test in the situation of full-speed working, testing is based on the connection of WIFI and one LAN port ,10Kbyte/s data transmission speed.

Test Items (4G Router)	Power supply	Average current	Maximum current
WIFI on full-speed communication	DC12V	175mA	289mA
LAN Port on full-speed communication	DC12V	169mA	245mA

Consumption value is obtained under 12V power supply and full-speed working:

Average consumption: 2.1W; Max consumption: 3.5W.

Average current:175mA; Maximum current: 289mA.

2.3. Hardware Description



Hardware description is as below:

No.	Name	Remarks
1	DC power supply	DC 9~16V Standard 5.5*2.1 power adapter
2	Power terminal	DC 9~16V, green, 5.08-2
3	WAN Port	10/100Mbps,support Auto MDI/MDIX
4	LAN Port (1~4)	10/100Mbps,support Auto MDI/MDIX
5	DB9 Male Port	RS232 port, data transmitted between serial and ethernet
6	USB Port	Reserved
7	Indicating light	8 indicating lights,details please refer to 3.7 chapter

8	SIM card seat	SIM card slot is in drawer type. Need use a sharp object to push yellow button when you put SIM card.
9	Reload	Press for more than 3s and then release to restore factory setting
10	WIFI antenna	WIFI antennas *2, near to reload key and DB9 port
11	3/4G full frequency antenna	Antenna for 4G module, near to SIM card and power supply

<Note>

Please note that the difference between WIFI and 4G antenna.



2.4. Size Description

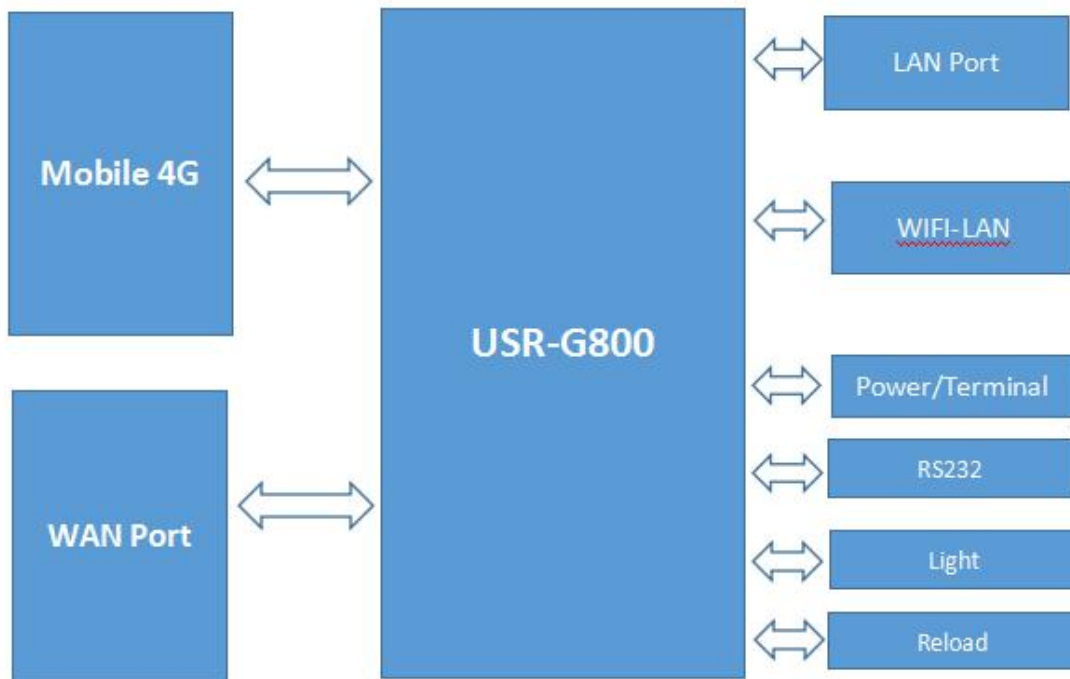


Note:

- Sheet metal casing, PCB is fastened onto the bottom with screws
- Settled holes for C45 Din rail in the two sides
- Size at $207 * 113 * 35$ mm (Not including power terminal, antenna)

3. Product Function

This chapter introduces all function of USR-G800-42, basic frame:



3.1. 4G Interface

USR-G800-42 support 4G communication module interface which can be used to visit outer networks.

USR-G800 AUTO REFRESH ON

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Status ▾
Network ▾
Interfaces
Wifi
Hostnames
Static Routes
Firewall
Diagnostics

SerialtoEth ▾
System ▾
Logout

Interfaces

Interface Overview

Network	Status	Actions
LAN br-lan	Uptime: 0h 28m 2s MAC-Address: D8:B0:4C:D0:04:01 RX: 679.95 KB (8310 Pkts.) TX: 973.36 KB (4428 Pkts.) IPv4: 192.168.1.1/24 IPv6: FDC2:9F1A:AFAC:0:0:0:0:1/60	Edit
WAN_4G eth1	MAC-Address: 00:00:00:00:00:00 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	Edit
WAN_WIRED eth0.2	Uptime: 0h 0m 0s MAC-Address: D8:B0:4C:D0:04:01 RX: 0.00 B (0 Pkts.) TX: 192.34 KB (566 Pkts.)	Edit

ci/.../network

USR-G800 AUTO REFRESH ON

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Status ▾
Network ▾
SerialtoEth ▾
System ▾
Logout

Interfaces - WAN_4G

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation `INTERFACE.VLANNR` (e.g.: eth0.1).

Common Configuration

General Setup

Status **MAC-Address:** 00:00:00:00:00:00
RX: 0.00 B (0 Pkts.)
TX: 0.00 B (0 Pkts.)

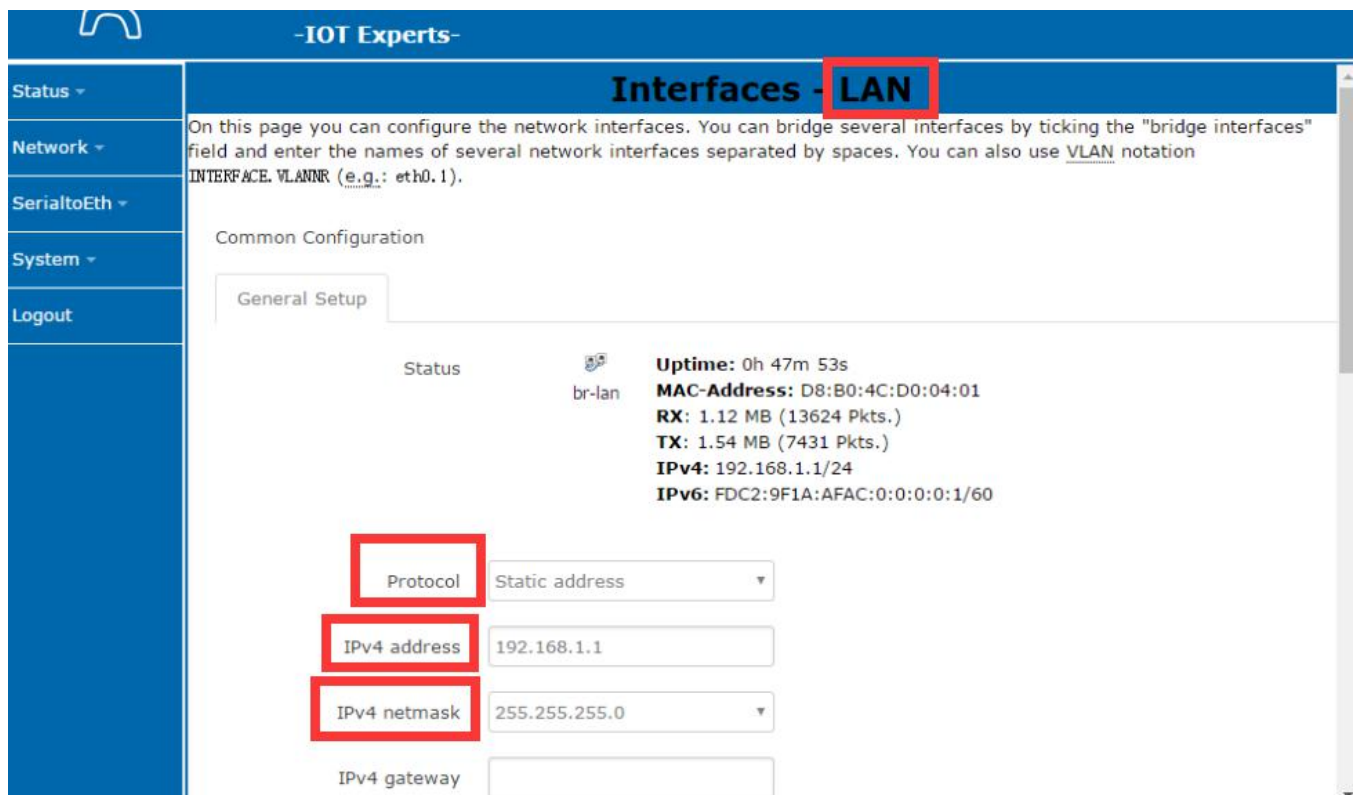
Protocol

Hostname to send when requesting DHCP

<Note>

- Mini-PCIE hardware interface
- Support the below band:
 - TD-LTE: Band 38/39/40/41
 - FDD-LTE: Band 1/3
 - WCDMA: Band 1 / 8
 - TD-SCDMA: Band 34/39
 - GSM/GPRS/EDGE: Band 3/8
- Protocol should be chosen for DHCP (default selection)
- Router will prefer using 4G network, and then WAN port

3.2. LAN Interface




Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General Setup

Status  **Uptime:** 0h 47m 53s
br-lan **MAC-Address:** D8:B0:4C:D0:04:01
RX: 1.12 MB (13624 Pkts.)
TX: 1.54 MB (7431 Pkts.)
IPv4: 192.168.1.1/24
IPv6: FDC2:9F1A:AFAC:0:0:0:1/60

Protocol Static address ▼

IPv4 address 192.168.1.1

IPv4 netmask 255.255.255.0 ▼

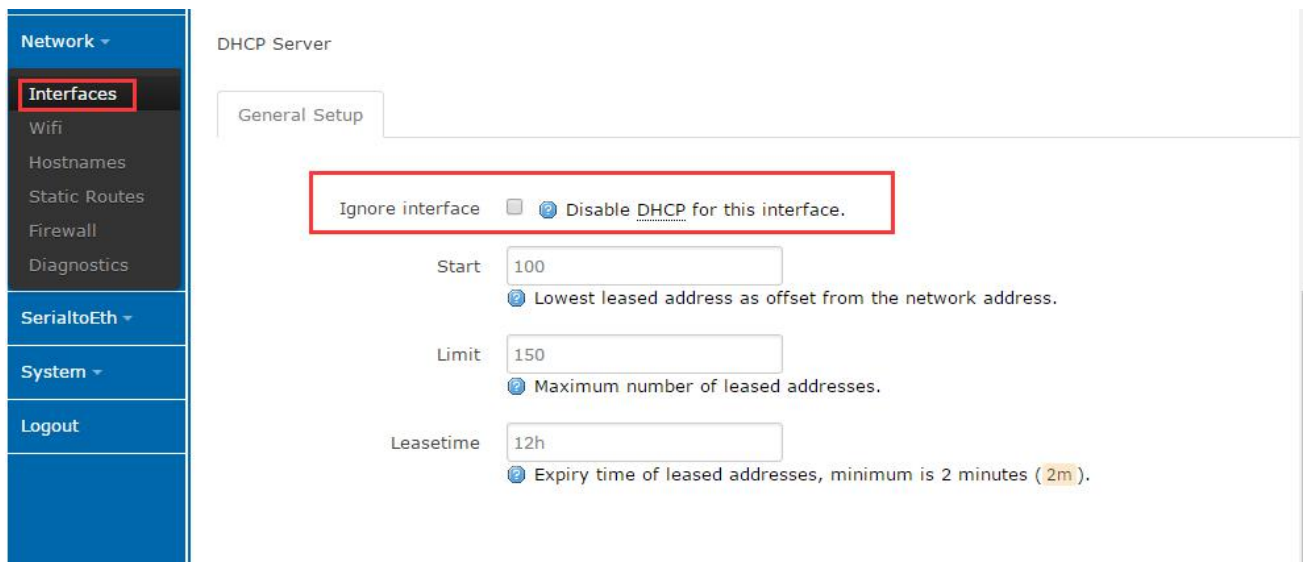
IPv4 gateway

LAN port is under local area network.

- 4 LAN Ports
- Default static IP 192.168.1.1, subnet mask 255.255.255.0. User can revise this parameters, such as, modify static IP as 192.168.2.1
- LAN port and WAN port is interchangeable

3.2.1.DHCP Function

DHCP server function of LAN port defaults to be open, all the network device what connected to LAN port can obtain IP address automatically



Network ▾

Interfaces

Wifi

Hostnames

Static Routes

Firewall

Diagnostics

SerialtoEth ▾

System ▾

Logout

DHCP Server

General Setup

Ignore interface Disable DHCP for this interface.

Start
Lowest leased address as offset from the network address.

Limit
Maximum number of leased addresses.

Leasetime
Expiry time of leased addresses, minimum is 2 minutes (2m).

<Noted>

- Start & end address and address lease time of DHCP pool can be adjusted.
- Scope of default DHCP 192.168.1.100 - 192.168.1.250.
- Default lease time is 12 hours

3.3. WAN Interface

USR-G800 AUTO REFRESH ON


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Interfaces - WAN_WIRED

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General Setup

Status	 eth0.2	Uptime: 0h 0m 0s MAC-Address: D8:B0:4C:D0:04:01 RX: 0.00 B (0 Pkts.) TX: 367.44 KB (1078 Pkts.)
--------	--	--

Protocol:

Hostname to send when requesting DHCP:


<Note>

- One WAN port
- Support DHCP client and static IP
- The way to obtain default IP is DHCP client

3.4. WLAN Network

It mean Local wireless local area network. Web page as below:

USR-G800
AUTO REFRESH ON



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Wireless Network: Client "USR-G800-0401" (ra0)

The *Device Configuration* section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the *Interface Configuration*.

Device Configuration

General Setup

Status **Mode:** Client | **SSID:** USR-G800-0401
BSSID: D8:B0:4C:D0:04:00
Channel: 11 | **Bitrate:** 300.0 Mbit/s

Radio on/off

Network Mode

Channel

Band Width

Default parameter:

Default Parameter	Value
SSID	USR-G800-XXXX XXXX is MAC address
Password	12345678
Channel	Auto
Band Width	40MHz
Encryption	WPA2-PSK

Revise SSID in the below position:

Interface Configuration

General Setup
Wireless Security

ESSID

Mode

Revise password in the below position,

Interface Configuration

General Setup

Wireless Security

Encryption ▼

Cipher ▼

Key 🔒

To revise the WIFI, wireless speed, channel and band width in here:

Status ▾
 Network ▾
 Interfaces
Wifi
 Hostnames
 Static Routes
 Firewall
 Diagnostics
 SerialtoEth ▾
 System ▾
 Logout

Device Configuration

General Setup

Status **Mode:** Client | **SSID:** USR-G800-0401
BSSID: D8:B0:4C:D0:04:00
Channel: 11 | **Bitrate:** 300.0 Mbit/s

Radio on/off ▼

Network Mode ▼

Channel ▼

Band Width ▼


<Note>

- USR-G800-42 as AP, other wireless device can access to its WLAN network
- Work as AP, support max 24 STA connection
- This WLAN port and LAN port is interchangeable
- Coverage area of WIFI is 180M

3.5. Serial to Ethernet Function

USR-G800-42 supports transparent transmission mode, data can be transmitted between serial port and ethernet.

USR-G800
UNSAVED CHANGES: 2



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- Status ▾
- Network ▾
- SerialtoEth ▾
- System ▾
- Logout

Serial to ethernet

Configuration

Network

Serial Port

Work Mode

Remote Address

Remote Port

Local Port

ModbusTCP

USR-G800
UNSAVED CHANGES: 2



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- Status ▾
- Network ▾
- SerialtoEth ▾
- System ▾
- Logout

Serial to ethernet

Configuration

Network

Serial Port

Baud

Data Bit

Parity Bit

Stop Bit

<Note>

- Four work mode in transparent transmission:
 - TCP Server
 - TCP Client
 - UDP Server
 - UDP Client
- Support Modbus TCP
- Configure band rate, data bit, parity bit and stop bit

- Band rate: 300~115200bps; Do not support user-defined
- Serial port means RS232 port (TXD, RXD,GND), not support hardware flow control
- Work as TCP server, can connect with max 128 TCP client
- Default packing time: 50ms; Packing length: 1460 bytes; User can not revise them.

3.6. Reset Button

This button is only used for restore factory setting.

- Press more than 5s and then release it, router will restore factory setting and restart automatically
- Restart moment, all indicating lights will shine for 1s and then light is off. (Except for indicating light of power and 4G)

3.7. Indicating Light

There are 8 indicating lights in all, meanings as below

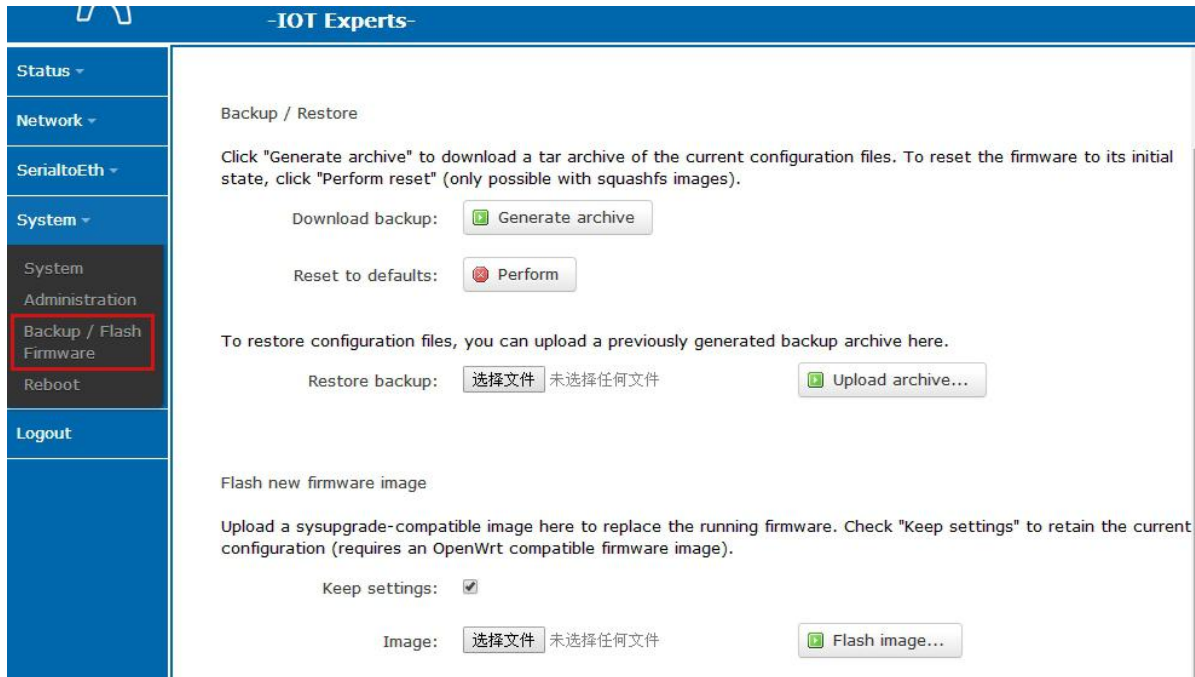
Name	Meaning	Instruction
Power	Power Indicating Light	Blink all the time when power on
4G	4G Communication	Not blink without registering to network, blink for successful when dial up access.
WLAN	WIFI Indicating Light	Blink all the time with successful starting of WIFI Twinkle when STA connection or data transmitting
WAN	WAN port Indicating Light	Blink all the time when WAN cable connected; Twinkle when data transmitting
LAN1	LAN1 port Indicating Light	Blink all the time when cable connect LAN1 port; Twinkle when data transmitting
LAN2	LAN2 port Indicating Light	Blink all the time when cable connect LAN2 port; Twinkle when data transmitting
LAN3	LAN3 port Indicating Light	Blink all the time when cable connect LAN3 port; Twinkle when data transmitting
LAN4	LAN4 port Indicating Light	Blink all the time when cable connect LAN4 port; Twinkle when data transmitting

<Note>

- No indicating light on the seat of LAN port and WAN port, physical connection of LAN port is indicated by WAN and LAN1-4 indicating lights
- Corresponding WAN/LAN indicating light will twinkle when cable is inserted and the network device on the other side is also working; It will not blink if only inserting the cable
- Power light will blink all the time

3.8. Firmware Update

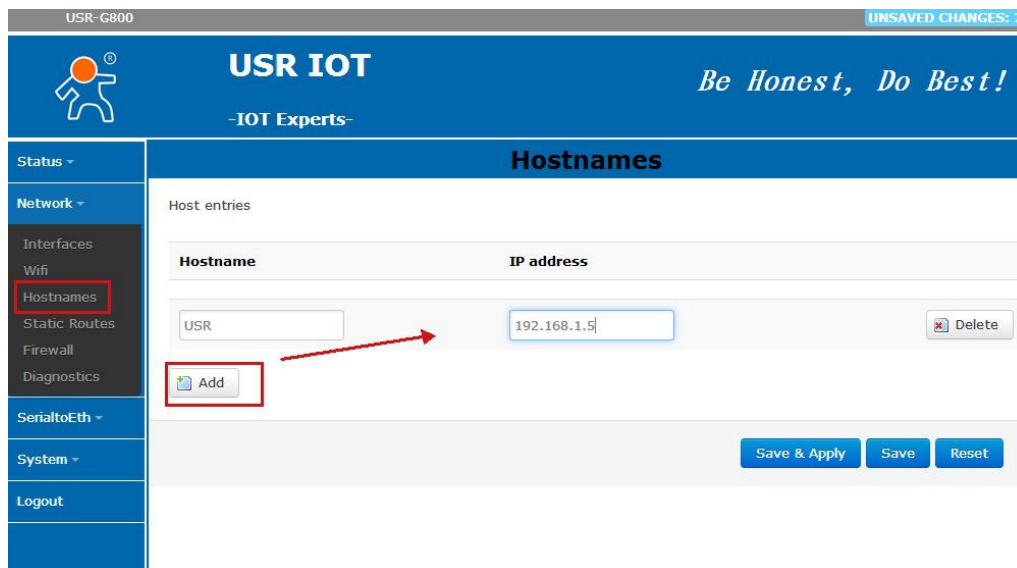
USR-G800-42 support upgrade firmware via Web page, as below:



<Note>

- Upgrade firmware will last 30s-50s, please re-enter web page after 30s
- Retain configuration or not can be selected
- Do not cut off power supply or pull out RJ45 cable when upgrade firmware

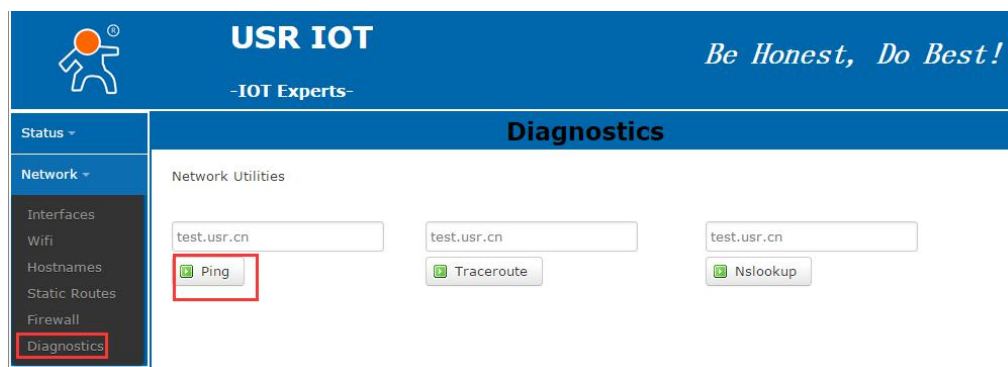
3.9. Host Name Function



USR-G800-42 can analyze the user-defined domain name. Such as:
 Set host name as “USR”, IP address 192.168.0.9. Then mapping relation between host name and IP address can be realized.

Note: This function can only be effective after restarting the router.

3.10. Network Diagnosing Function

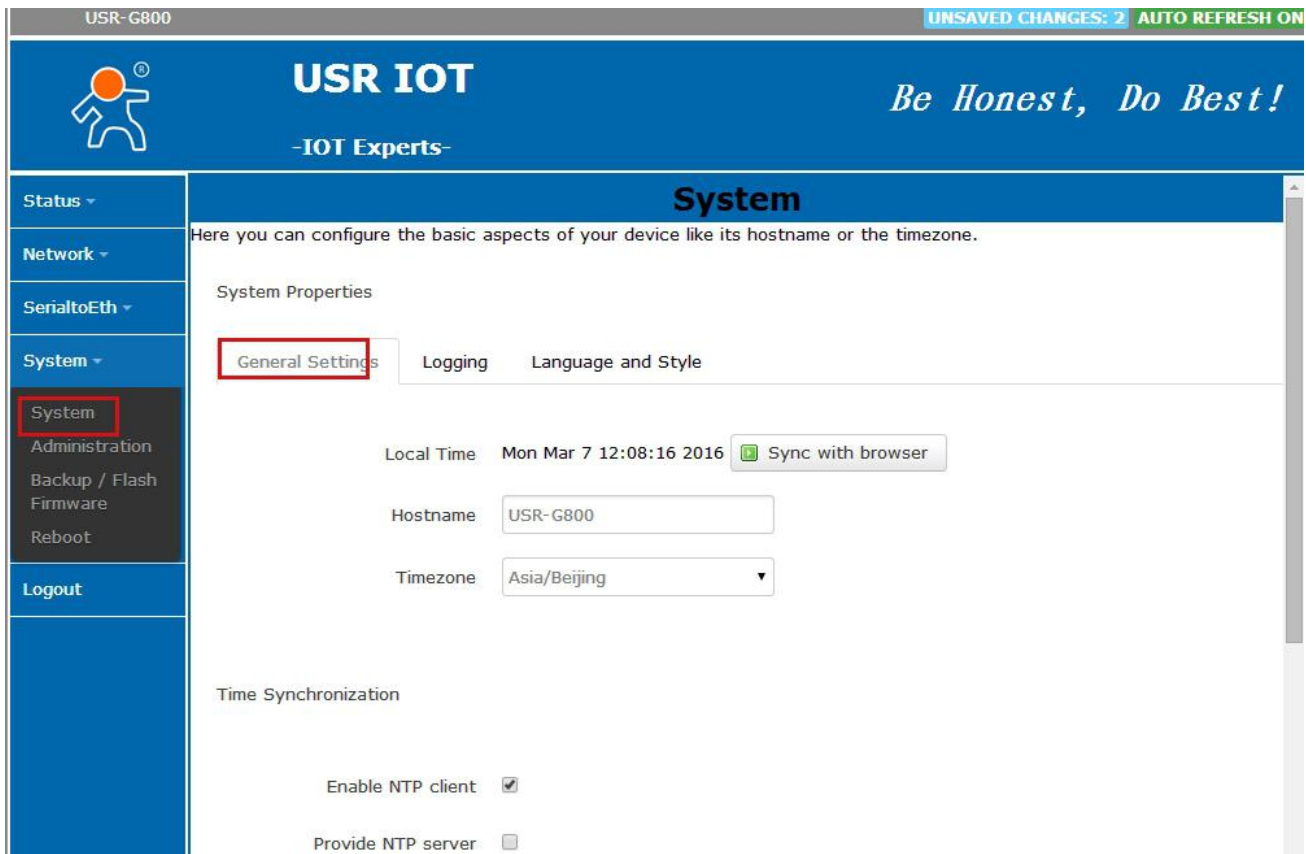


Diagnosing function, including Ping tool, analysis tool and DNS check tool.

- Ping tool, user can ping the specific address directly in the router end.
- Router analysis tool, can obtain the routing path when visit an address
- DNS check tool, can analyze the domain name to IP address

3.11. Host name and Time Zone Setting

USR-G800-42's default host name is USR-G800; Time zone is Asia/Beijing. User can modify it according to the actual situation.

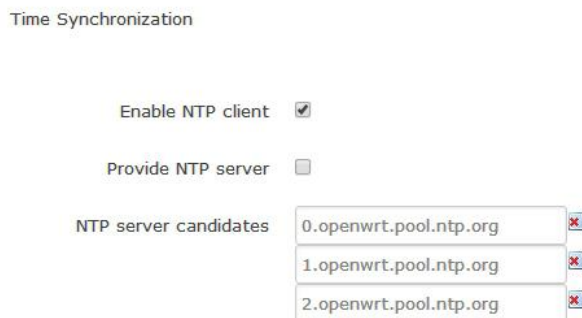


The screenshot shows the USR IOT web interface for a USR-G800 device. The top navigation bar includes the USR IOT logo and the slogan "Be Honest, Do Best!". A sidebar on the left contains menu items: Status, Network, SerialtoEth, System, System (highlighted), Administration, Backup / Flash Firmware, Reboot, and Logout. The main content area is titled "System" and contains the following settings:

- System Properties:** Includes tabs for General Settings (selected), Logging, and Language and Style.
- Local Time:** Mon Mar 7 12:08:16 2016, with a "Sync with browser" button.
- Hostname:** USR-G800 (text input field).
- Timezone:** Asia/Beijing (dropdown menu).
- Time Synchronization:**
 - Enable NTP client:
 - Provide NTP server:

3.12. NTP Parameter Setting

USR-G800-42 can make network timing. Default status is enable NTP client. And can set candidate NTP server.

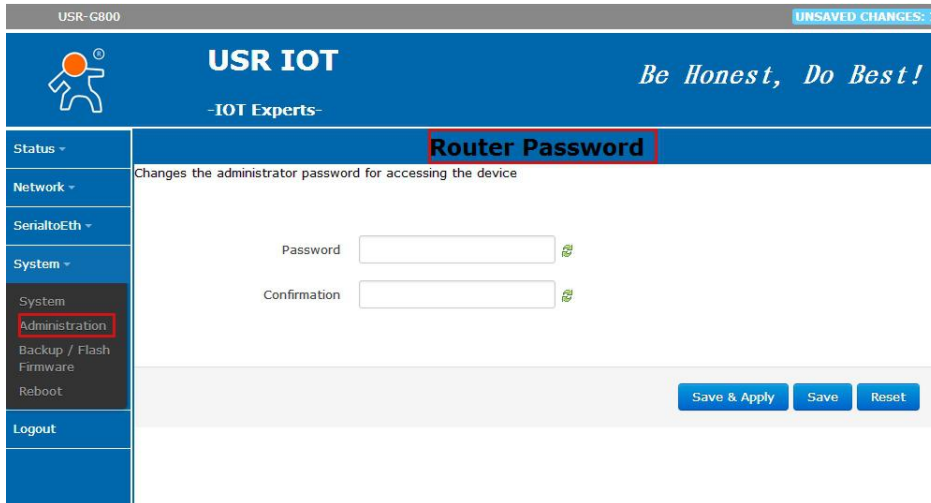


The screenshot shows the "Time Synchronization" section of the USR IOT web interface. It includes the following settings:

- Enable NTP client:
- Provide NTP server:
- NTP server candidates: A list of three entries, each with a delete icon (X):
 - 0.openwrt.pool.ntp.org
 - 1.openwrt.pool.ntp.org
 - 2.openwrt.pool.ntp.org

3.13. User name and Password

Default password is root which only used for enter web page, and can be revised by user. But user name can't be revised and configured.



The screenshot shows the USR IOT web interface for a USR-G800 device. The page title is "Router Password" and it includes the instruction "Changes the administrator password for accessing the device". There are two input fields: "Password" and "Confirmation", each with a strength indicator icon. The "Administration" menu item in the left sidebar is highlighted with a red box. At the bottom right, there are three buttons: "Save & Apply", "Save", and "Reset".

3.14. Reset by webpage

Backup / Restore

Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images).

Download backup:

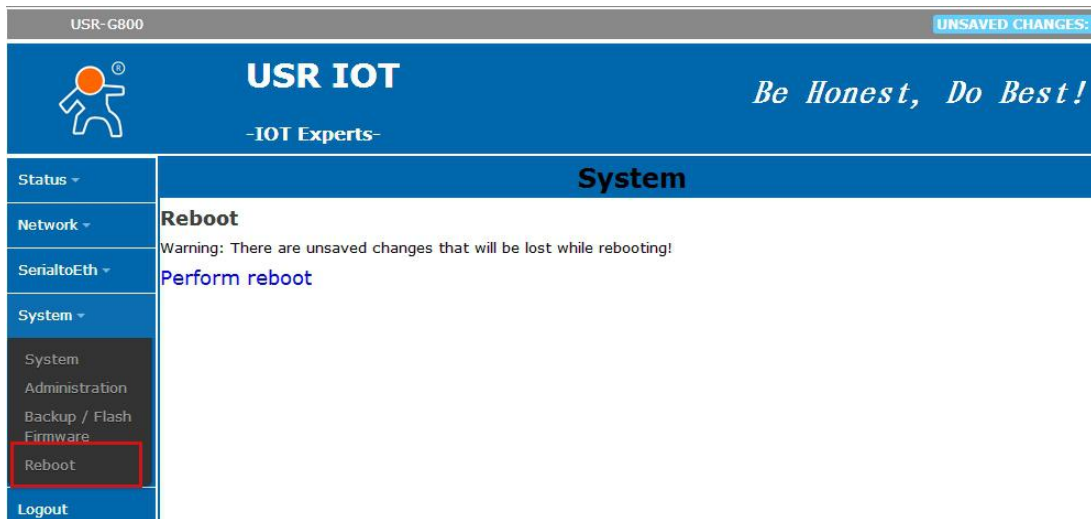
Reset to defaults:

Click the button for restore factory setting.

- Download backups, means downloading the concurrent router's parameter configuration files which can be used for backing up parameter setting.
- Upload backups, means backed-up parameter files can be uploaded into router and take effect.

3.15. Restart

Click the button to restart the router. Restarting time is same as power up time of router. Router will start completely and successfully after about 30-40 seconds.



4. Setting Method

4.1. Web page Configuration

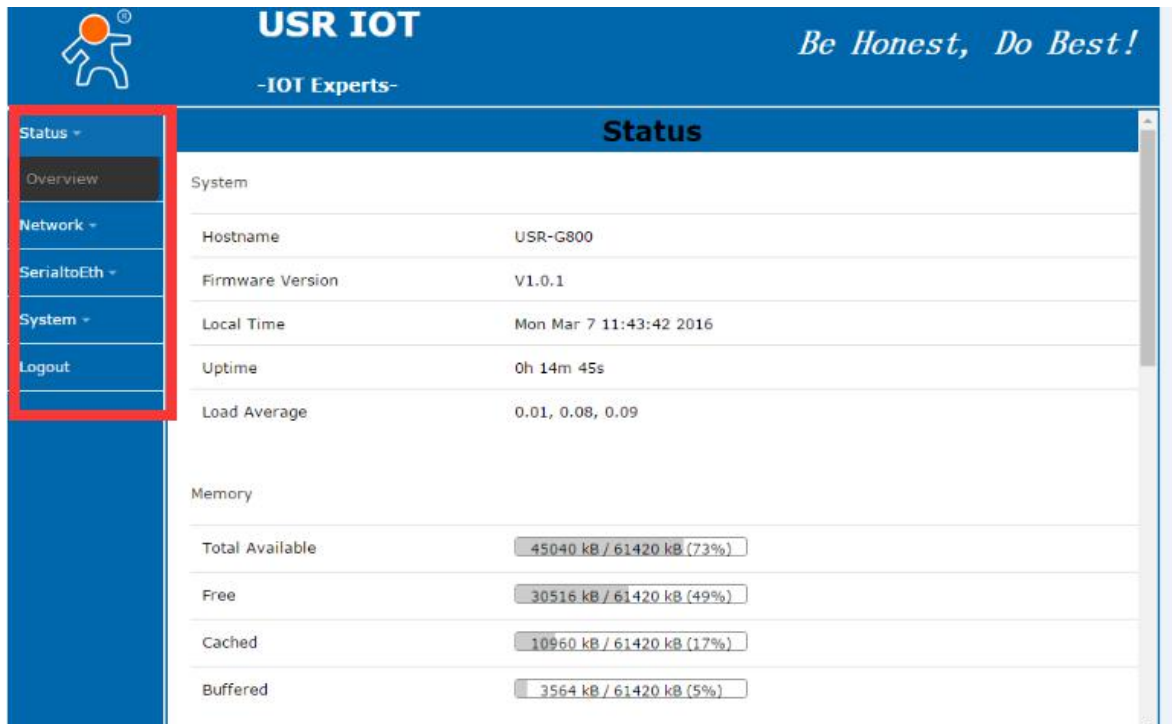
Connect USR-G800-42 with PC by LAN port or WLAN (WIFI), and then enter web page to configure. Please refer to following default parameter:

Parameter	Default Configuration
SSID	USR-G800-XXXX
LAN Interface IP Address	192.168.1.1
User's Name	root
Password	root
Wireless Password	12345678

Step1, PC access to router's network. Search wireless network on PC and join USR-G800-XXXX

Step2, Enter <http://192.168.1.1> after wireless connection.

Step3, Will show web page of USR-G800-42 on PC. Change Chinese to English



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Status

System

Hostname	USR-G800
Firmware Version	V1.0.1
Local Time	Mon Mar 7 11:43:42 2016
Uptime	0h 14m 45s
Load Average	0.01, 0.08, 0.09

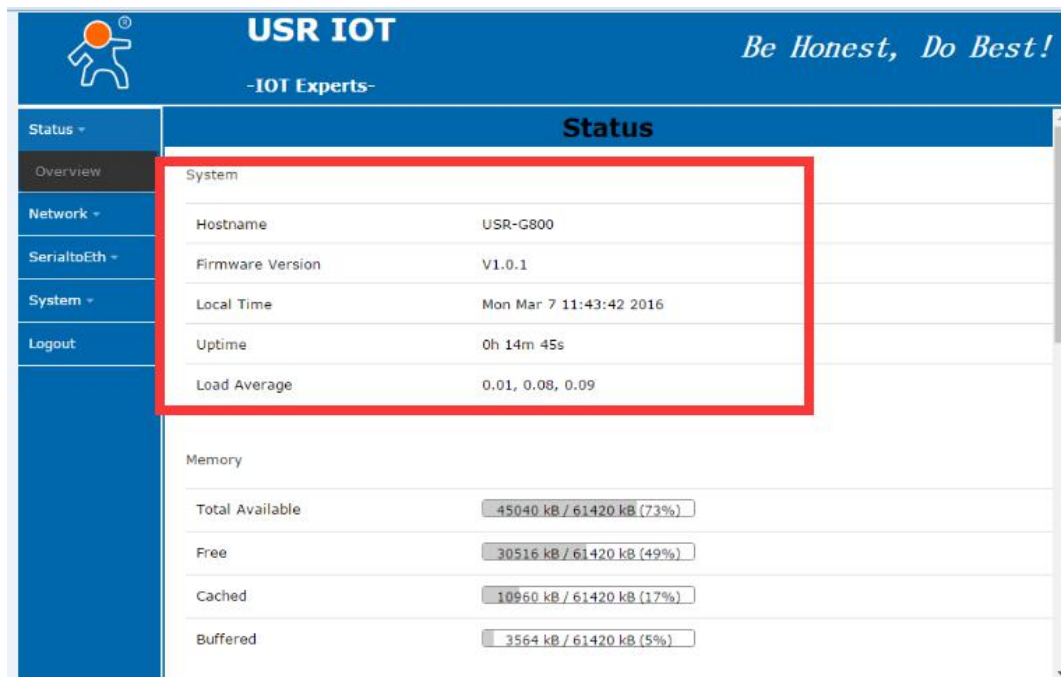
Memory

Total Available	45040 kB / 61420 kB (73%)
Free	30516 kB / 61420 kB (49%)
Cached	10960 kB / 61420 kB (17%)
Buffered	3564 kB / 61420 kB (5%)

4.2. Web page Introduction

■ Status Page

It mainly shows device name, firmware version, firewall, router table and current running state.



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Status

System

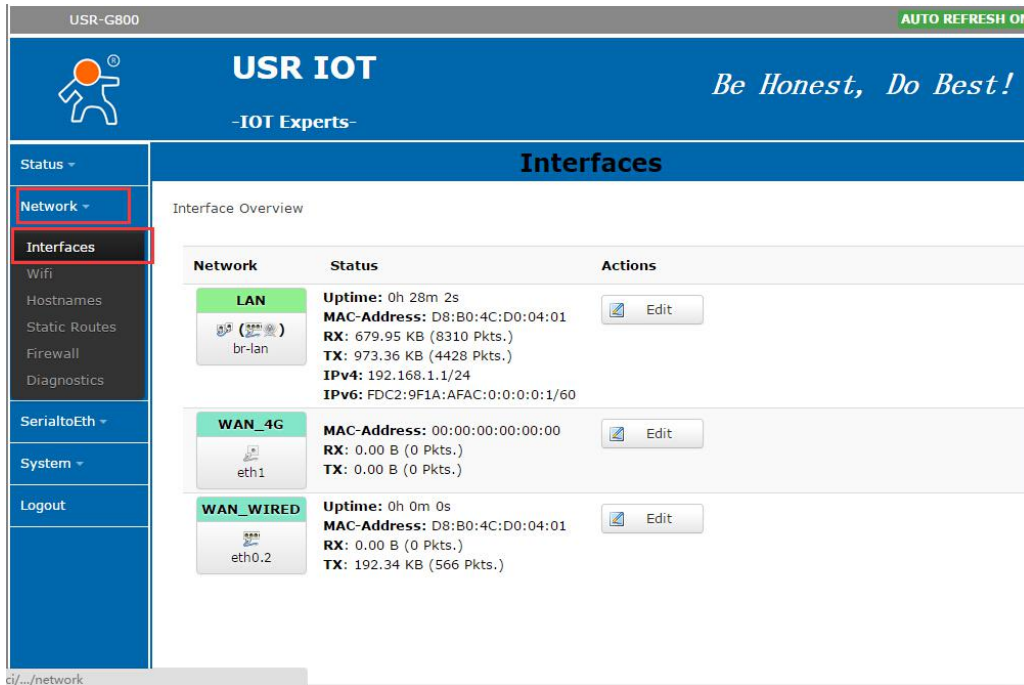
Hostname	USR-G800
Firmware Version	V1.0.1
Local Time	Mon Mar 7 11:43:42 2016
Uptime	0h 14m 45s
Load Average	0.01, 0.08, 0.09

Memory

Total Available	45040 kB / 61420 kB (73%)
Free	30516 kB / 61420 kB (49%)
Cached	10960 kB / 61420 kB (17%)
Buffered	3564 kB / 61420 kB (5%)

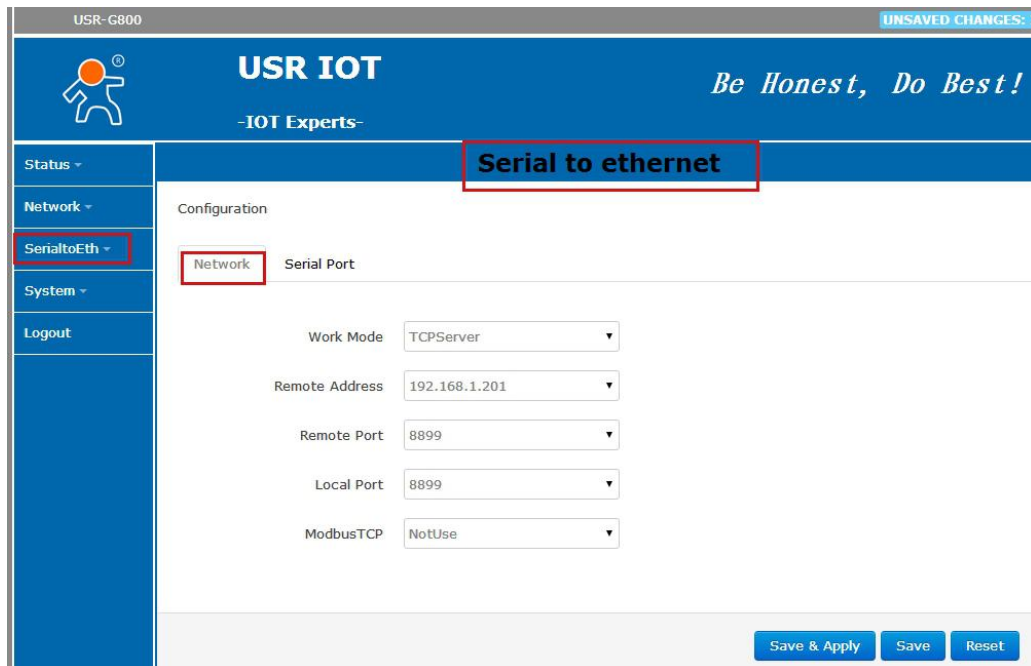
■ Network interface page:

User can configure LAN port, WAN port, WIFI parameter and DHCP/DNS on this page.



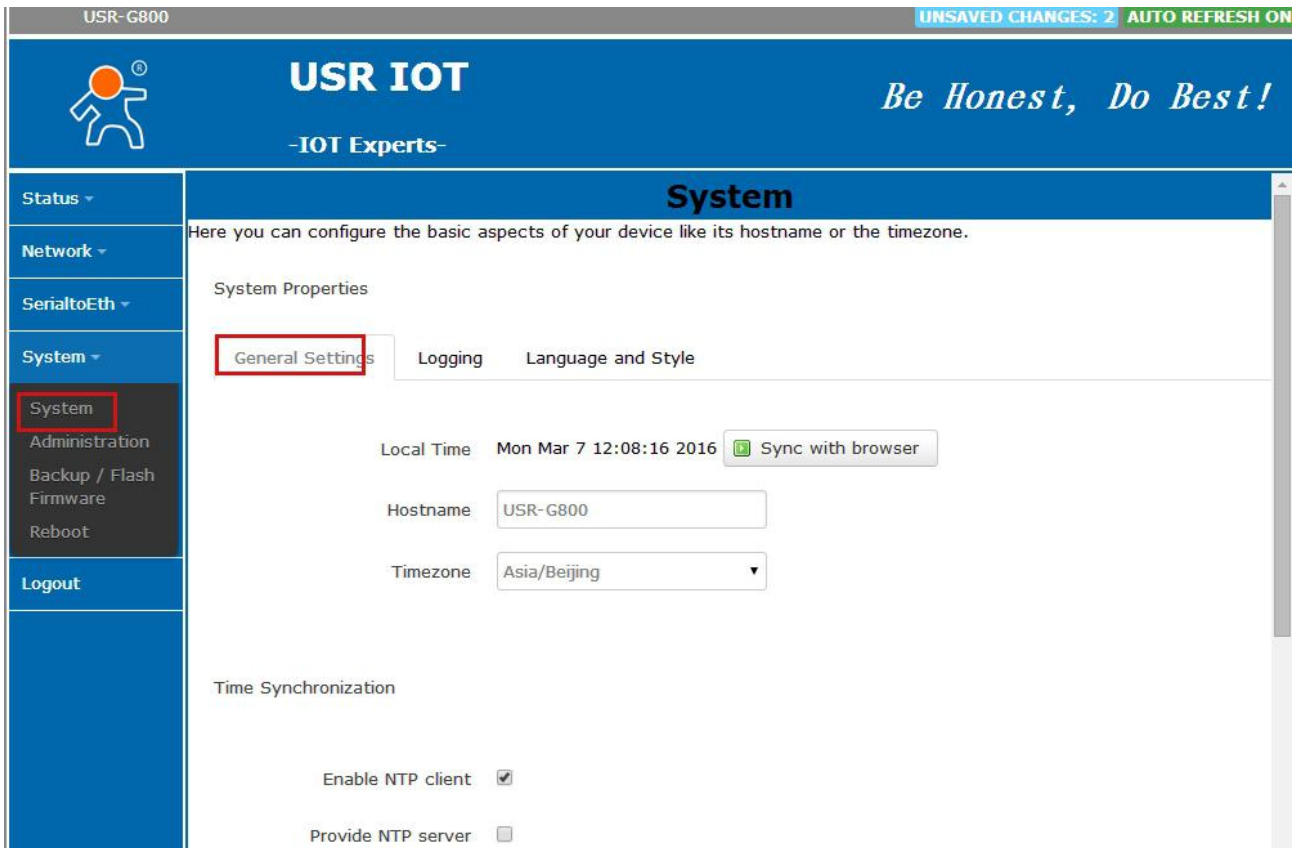
■ Serial to Web page

It used for setting parameter of Serial -Ethernet, including work mode, local port, remote port and IP



■ System Page

User can configure password, NTP time, firmware updated and restart.



The screenshot displays the USR IOT web interface for a USR-G800 device. The top navigation bar includes the USR IOT logo and slogan "Be Honest, Do Best!". The main content area is titled "System" and contains a description: "Here you can configure the basic aspects of your device like its hostname or the timezone." Below this, there are three tabs: "General Settings" (highlighted with a red box), "Logging", and "Language and Style". The "General Settings" tab shows the following configuration:

- Local Time: Mon Mar 7 12:08:16 2016, with a "Sync with browser" button.
- Hostname: USR-G800
- Timezone: Asia/Beijing

Under the "Time Synchronization" section, there are two checkboxes:

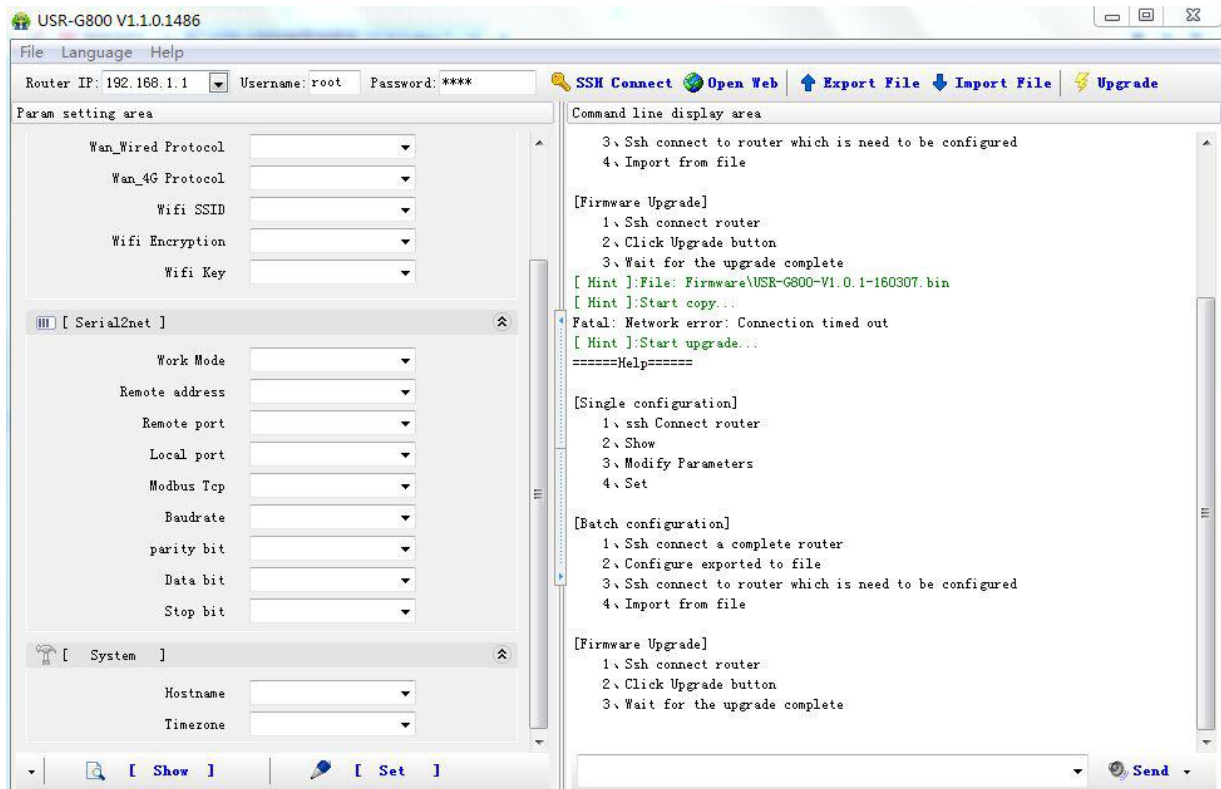
- Enable NTP client:
- Provide NTP server:

The left sidebar contains a menu with the following items: Status, Network, SerialtoEth, System (highlighted with a red box), Administration, Backup / Flash Firmware, Reboot, and Logout.

4.3. Setup Software

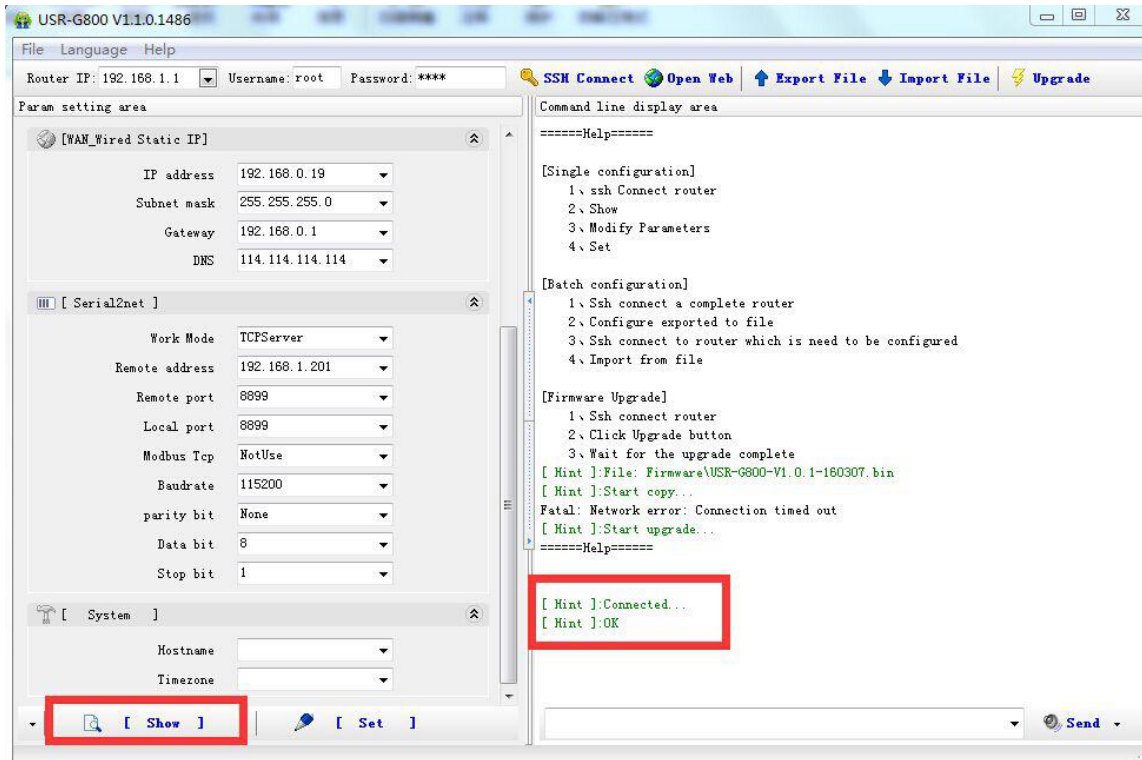
Download setup software from the below link:

<http://www.usriot.com/usr-g800-setup-software/>

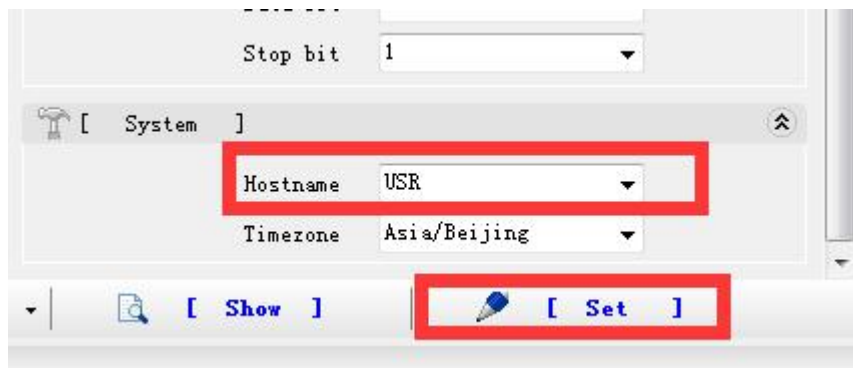


Setting step is as below:

- Double click to open software. Note: PC must be placed under LAN port.
- Click SSH connection, “Connecting...” will be hinted, “Connected” will be hinted for successful connection.
- Click “Show” button, if reading successfully, corresponding data will be updated in the left side and “OK” will be hinted in the right side

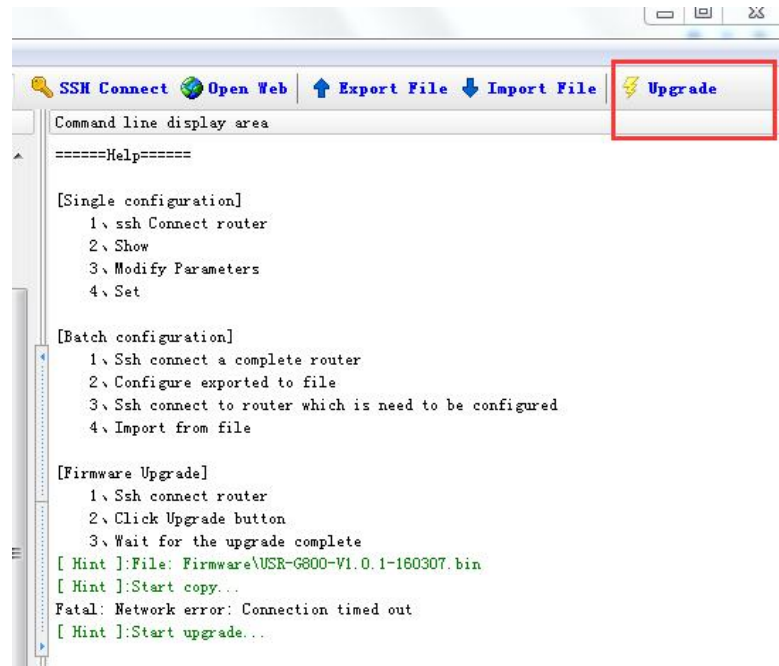


- Please configure parameter according to your own need, for example, default host name can be revised to “USR” such as:



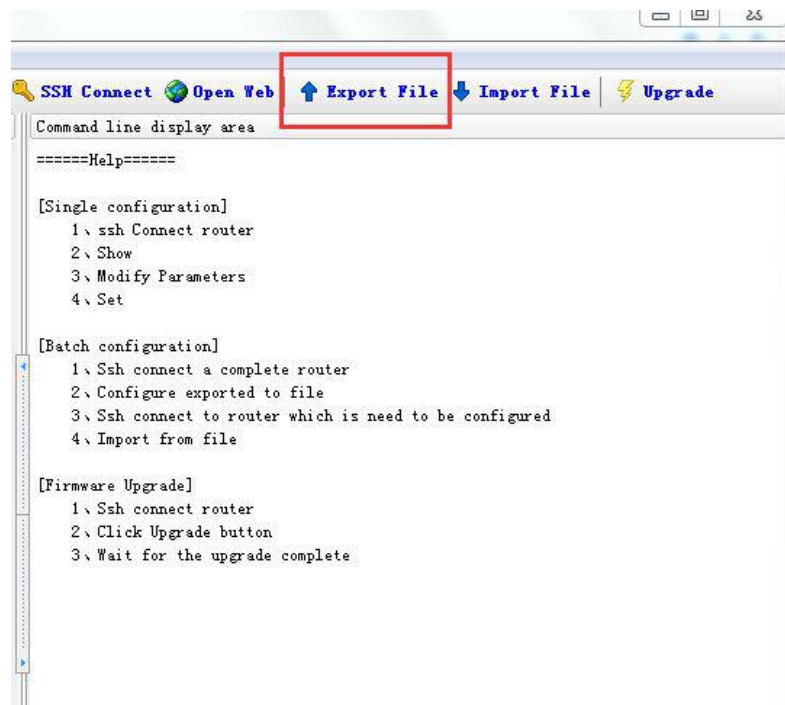
- Parameter setting takes effect. Please restart router to ensure configuration completely be in operation. (User can also input “reboot” in send box to realize long-distance restart).
- Upgrade firmware. Please click the button “update” in the top right corner to update new firmware.
- Firmware is stored under “Root Directory/Firmware”

Details as below:



- Export and Import for parameter configuration files.

Export and Import configuration files are under “Root Directory/etc/config”



5. Contact

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7. Update

2015-10-27 V1.01 Version released
2016-01-12 V1.0.2 version add the description of detailed function
2016-03-22 V1.0.3 version add size picture
2016-06-21 V1.0.5 version modify DHCP description