

# USR-G805 User Manual



USR-G805 User Manual .....	1
1. Introduction .....	4
1.1. Overview .....	4
1.2. Features .....	4
1.3. Specification .....	5
1.4. Hardware Interface .....	6
1.5. Dimensions .....	6
1.6. Ordering Guide .....	7
2. General Function .....	7
2.1. Web Interface .....	7
2.2. Functional Diagram .....	8
2.3. NTP .....	9
2.4. Administration .....	10
2.5. Reset .....	10
2.5.1. Hardware Reset .....	10
2.5.2. Software Reset .....	10
2.6. Firmware Upgrade .....	11
2.7. Restart .....	12
2.8. Restart Regularly .....	12
2.9. Log .....	13
2.9.1. Remote Log .....	13
2.9.2. Local Log .....	14
3. Network .....	15
3.1. Cellular Network .....	15
3.1.1. Cellular Configuration .....	15
3.1.2. Network Detection .....	16
3.1.3. Information .....	16
3.2. LAN Settings .....	17
3.2.1. DHCP Server .....	18
3.3. Network Diagnosis .....	19
3.4. Static Route .....	19
3.4.1. Routing Table .....	20
4. VPN .....	21
4.1. PPTP Client .....	21
4.2. L2TP Client .....	23
5. Firewall .....	24
5.1. Port Filtering .....	24
5.2. Port Mapping .....	25
5.3. Port Forwarding .....	25
5.4. DMZ .....	26
6. Advanced Services .....	27
6.1. PUSR Cloud .....	27

---

6.2. DDNS .....	27
6.2.1. Supported Services .....	27
6.2.2. Custom Services .....	28
7. Contact Us .....	30

# 1. Introduction

## 1.1. Overview

USR-G805 is a lightweight 4G industrial wireless router that integrates technologies such as 4G LTE, Ethernet port, and VPN to provide advanced Internet connectivity and high-speed data access for devices. This product also supports remote management cloud platform services, you can easily track your equipment, enjoy higher large-scale deployment and preventive maintenance, improve operation and maintenance efficiency and reduce operating costs.

With the advantages of small size and comprehensive functions, G805 has been widely used in various industries of the Internet of Things. It provides reliable data transmission networking for self-service terminal equipment (self-service vending machines, ATMs, service terminals, digital signage, self-service lottery machines, express cabinets, mall POS machines, charging piles, parking lots), video security monitoring (access control, video surveillance, weather monitoring, tower establishment, household photovoltaic monitoring), etc..

## 1.2. Features

### Stable and Reliable

- Industrial design, metal housing, protection class IP30.
- Wide voltage 9~36V input, with anti-reverse protection.
- Din-rail or panel mounting, suitable for various scenarios.
- Built-in hardware watchdog, ECM protection, fault self-detection, self-recovery to ensure system stability.

### Flexible Networking

- Provide 4G network, compatible with 3G/2G network.
- Supports automatic network inspection, 4G/3G/2G network switching, APN/VPDN card.
- Supports 2.4GHz WIFI.
- Supports 1 wired LAN port, adaptive 10/100Mbps.
- Support static routing to meet complex subnet communication requirements.

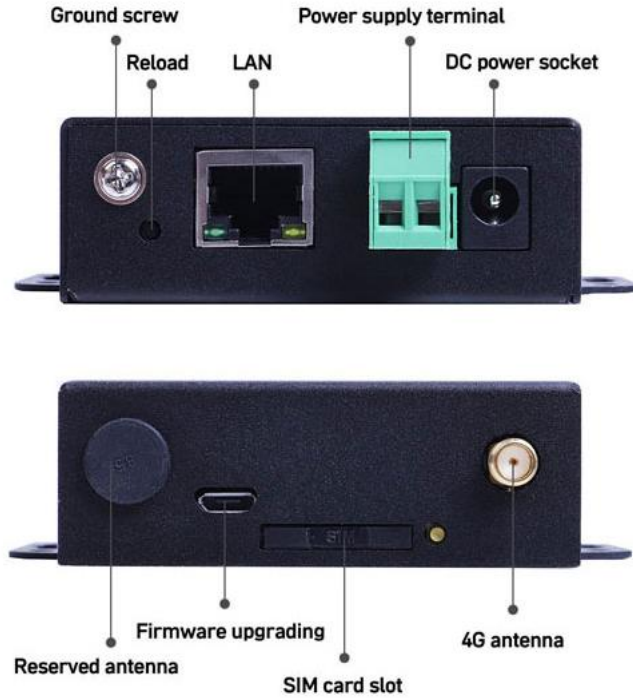
### Powerful Functions

- Supports connecting to USR Cloud, facilitate the centralized management of router, and improve the efficiency of operation and maintenance.
- Supports opening the built-in webpage of the router without public or private network.
- Supports VPN (PPTP, L2TP) and VPN encryption.
- Supports DDNS, easy to access the router and the subnet devices under the router.
- Supports firewall, port forwarding, port filtering, port mapping and DMZ.
- Supports DHCP server, which can also be disabled.
- Supports scheduled restart function, periodically clear the router running cache.
- Support network diagnostic functions: Ping, Traceroute, Nslookup.
- Supports NTP function.
- Supports "Reload" button to restore to factory settings.

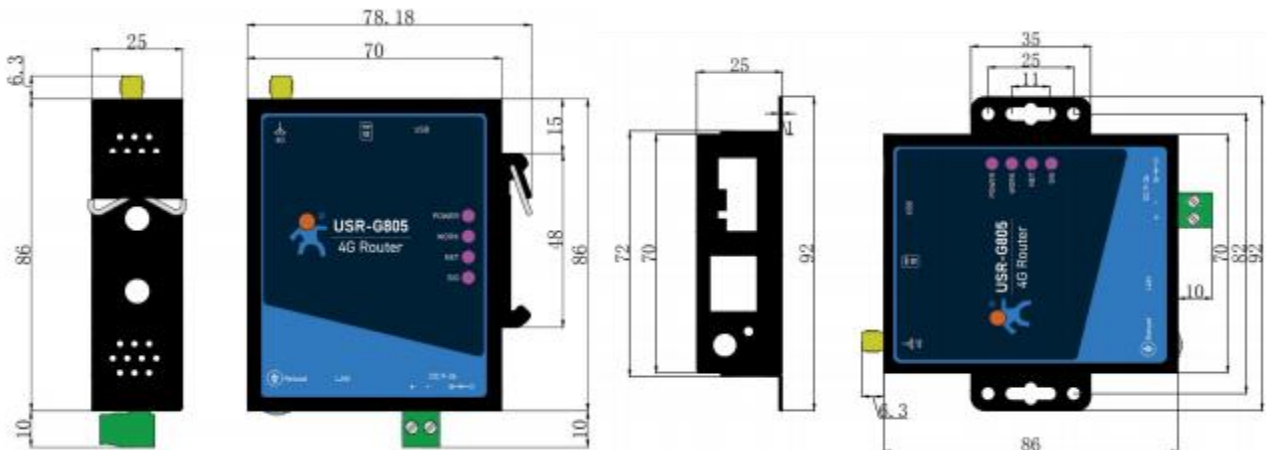
## 1.3. Specification

Hardware Specifications		
Cellular Interface	Antenna Interface	1*standard SMA-K antenna interface (female)
	SIM Card Slot	1*3V/1.8V standard drawer SIM card slot
Ethernet Interface	Ethernet Port	1*LAN interface
	Ethernet Specifications	RJ45, adaptive 10/100 Mbps, IEEE 802.3, with 1.5KV network isolation transformer protection
Indicator	Power	Power indicator, always on after powered on.
	Work	Operation indicator, flash every 1s during normal operation.
	NET	Network status indicator, 2G--red, 3G--blue, 4G--purple
	SIG	Signal strength indicator: weak--red, middle--blue, strong--purple
Power Specifications	Standard Power Adaptor	DC 12V/1A
	Power Interface	DC 5.0 round socket or 2 pins terminal power interface, with reverse polarity protection.
	Power Range	DC 9~36V
	Power Consumption	Average is 3.5W, peak is 10W
Physical Characteristics	Shell	Metal housing
	Dimensions	70.0mm * 86.0mm* 25.0mm (Power terminals, antenna and antenna base are not included)
	Installation	DIN-Rail, panel mounting
	EMC	IEC61000-4-2, level 2 IEC61000-4-4, level 1 IEC61000-4-5, level 1
	Operation Temperature	-20℃~70℃
	Storage Temperature	-40℃~+125℃ (non-condensing)
	Operation Humidity	5%~95% (non-condensing)
Others	Reload Button	Supports resetting to factory settings
	USB Port	For firmware upgrading
Certifications	CE, RoHS	

## 1.4. Hardware Interface



## 1.5. Dimensions



- Metal housing, supports panel and DIN-rail mounting.
- Dimensions: 70.0\*86.0\*25.0mm (Power terminals, antennas, and antenna bases are excluded)

## 1.6. Ordering Guide

USR-G805 Ordering Guide			
	Region	Frequency Bands	
USR-G805-ECAUX	Latin America/ Australia/ New Zealand	TDD-LTE	B40
		FDD-LTE	B1/B2/B3/B4/B5/B7/B8/B28
		WCDMA	B1/B2/B4/B5/B8
		GSM/GPRS/EDGE	B2/B3/B5/B8
USR-G805-ECEUX	EMEA/Thailand	TDD-LTE	B38/B40/B41
		FDD-LTE	B1/B3/B7/B8/B20/B28A
		WCDMA	B1/B8
		GSM/EDGE	B3/B8

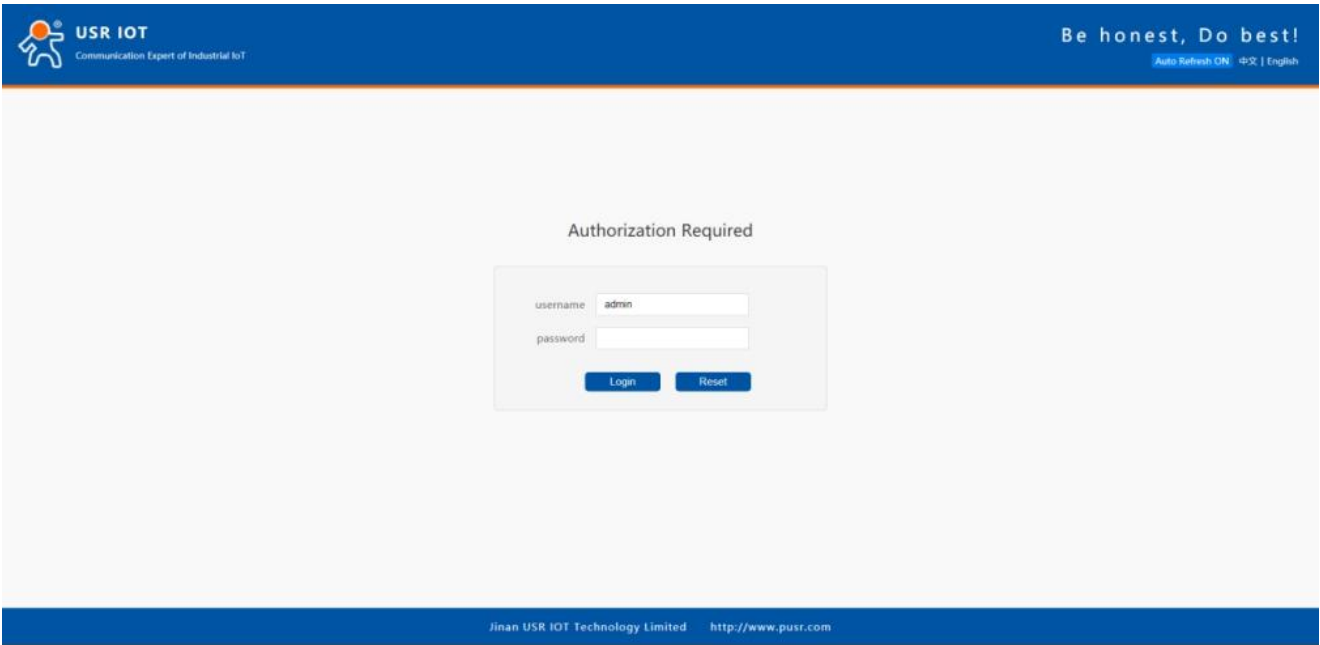
## 2. General Function

### 2.1. Web Interface

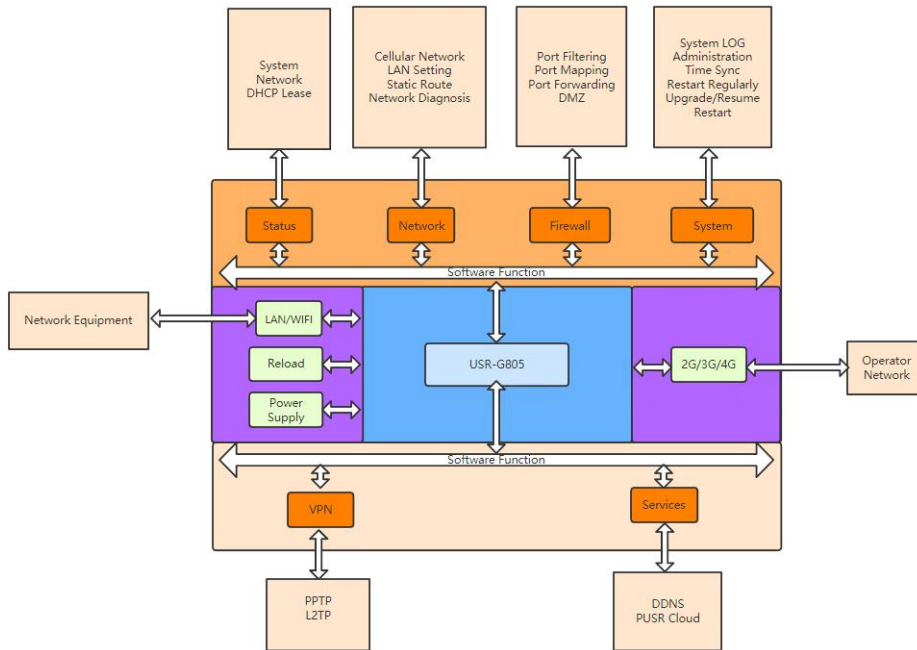
Connect PC to the LAN port of USR-G805 via an Ethernet cable, or directly connect the PC to the WiFi of the G805, then log into the webpage. Default parameters are as below:

Parameters	Default
LAN IP address	192.168.1.1
Username	admin
Password	admin

Enter 192.168.1.1 in the browser to log into the webpage of USR-G805, username and password are both "admin", then click "Login".

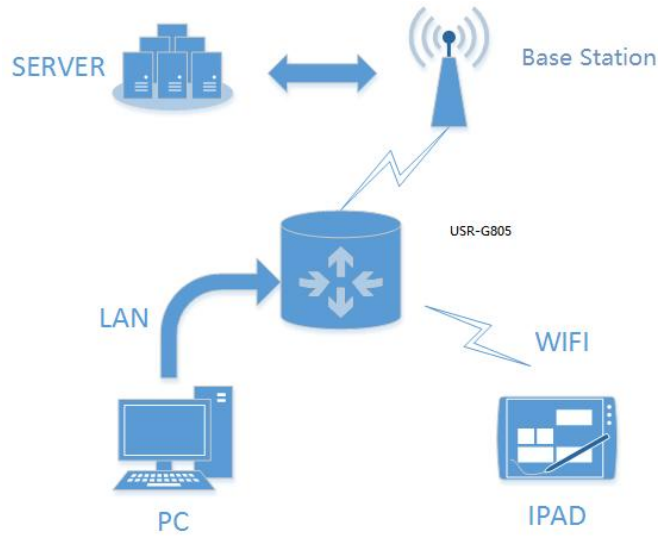


## 2.2. Functional Diagram



Following is the application diagram:





## 2.3. NTP

NTP client function is default to be enabled, you can set different NTP server address.

**USR IOT**  
Communication Expert of Industrial IoT

Be honest, Do best!

Auto Refresh ON 中文 | English

USR-G805

- > Status
- > Services
- > Network
- > VPN
- > Firewall
- > System
- System LOG
- Administration
- Time Sync
- Restart Regularly
- Upgrade/Resume
- Restart
- > Logout

**Time synchronization**

Configuring system time synchronization(NTP)

Configuration

Enable NTP client

Update Cycle(minutes)   
Range: 10-3000

Time zone

Server address

[Save&apply](#)

Jinan USR IOT Technology Limited

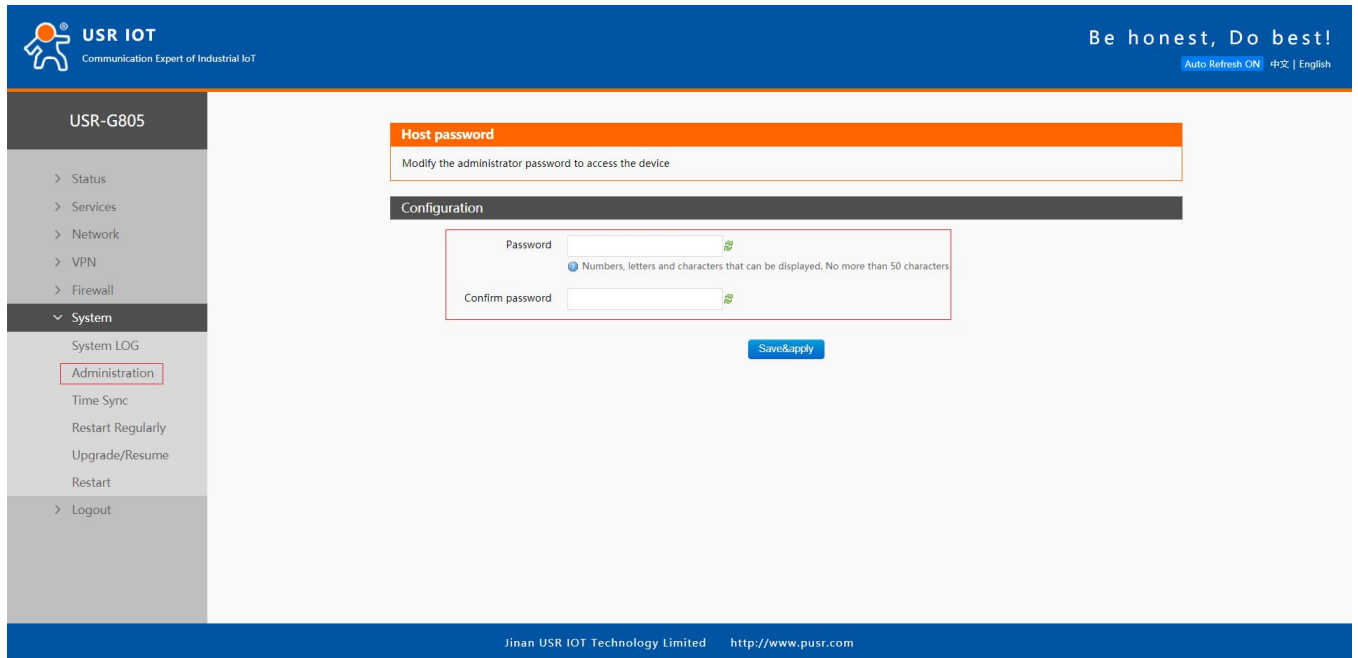
<http://www.pusr.com>

Option	Description	Default
Enable NTP client	Enable/Disable	Enable
Update cycle	NTP update interval Range: 10-3000 Unit: Minute	60

Time zone	NTP time zone, range: -12~+12 Time zone description: -12/+12 is the east and west twelve zones, located at 180° of the center line of the time zone.	0
Server address	NTP Server address	0.pool.ntp.org 1.pool.ntp.org 2.pool.ntp.org

## 2.4. Administration

Username and password are default to “admin” which used to log into the webpage of the device. Password can be changed but the username cannot be changed.



The screenshot shows the USR IOT web interface for the USR-G805 device. The top navigation bar includes the USR IOT logo and the slogan "Be honest, Do best!". The left sidebar menu is expanded to show the "System" category, with "Administration" selected. The main content area displays the "Host password" configuration page. It features a text input field for the administrator password with the instruction "Modify the administrator password to access the device". Below this is a "Configuration" section with two password input fields: "Password" and "Confirm password". A note indicates that the password must contain numbers, letters, and characters that can be displayed, and must not exceed 50 characters. A "Save&apply" button is located at the bottom of the configuration section. The footer of the page contains the text "Jinan USR IOT Technology Limited" and the website URL "http://www.pusr.com".

## 2.5. Reset

### 2.5.1. Hardware Reset

There is a **Reload** button in the device. After power on G805 device, press and hold the **Reload** button for 3~15s then release it, the device will restore to factory and restart automatically. When the device restarts, all the indicators will flash once and then turn off (the power indicator is still on).

### 2.5.2. Software Reset

We can also reset the device via its webpage.

The screenshot displays the USR IOT web management interface. On the left, a sidebar menu lists various system functions, with 'Upgrade/Resume' under the 'System' category highlighted by a red rectangular box. The main content area is titled 'Firmware upgrade and factory restoration' and contains three sections: 'Firmware upgrades and restore factory', 'Restore factory' (with a 'Restore factory' button and an 'Execute' button), and 'Firmware upgrade' (with a 'Keep configuration' checkbox, a 'Firmware' text input field, a 'Browse' button, and a 'Flashing' button). The footer of the page includes the text 'Jinan USR IOT Technology Limited' and the URL 'http://www.pusr.com'.

## 2.6. Firmware Upgrade

USR-G805 supports upgrading via webpage.

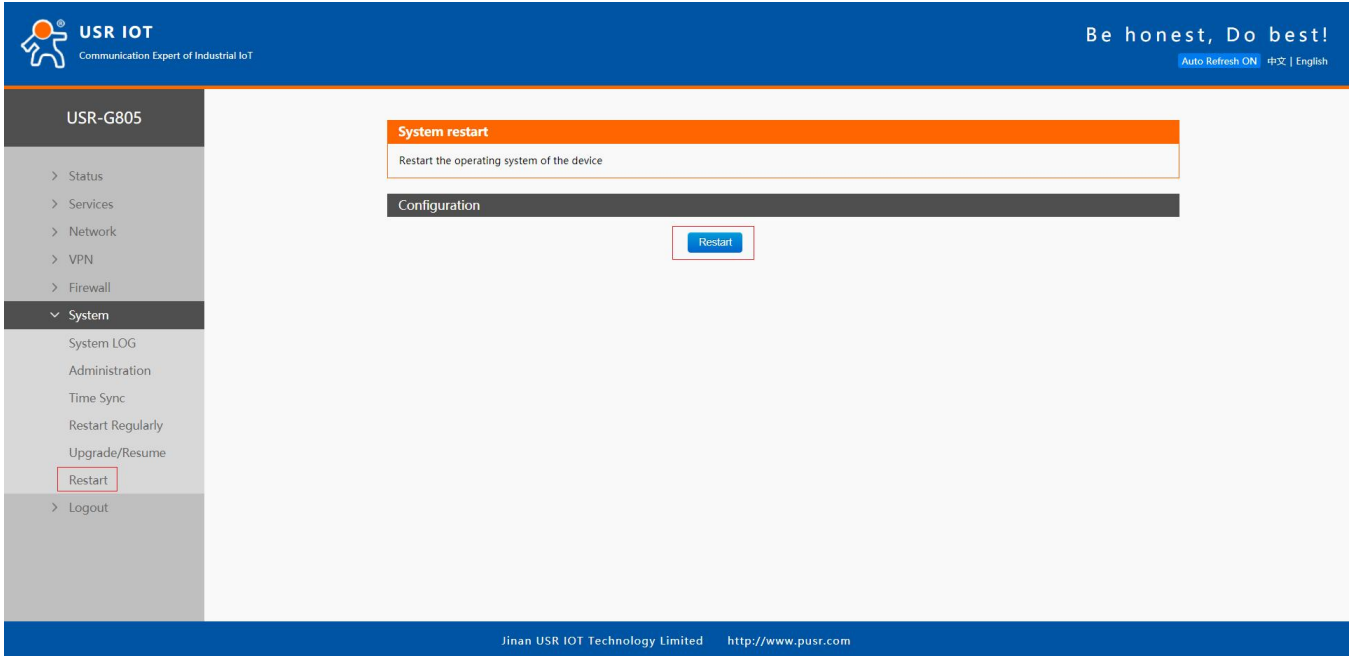
This screenshot is identical to the one above, showing the 'Firmware upgrade and factory restoration' section of the USR IOT web interface. The 'Upgrade/Resume' option in the left sidebar is highlighted with a red rectangular box. The main content area shows the 'Restore factory' section with an 'Execute' button and the 'Firmware upgrade' section with a 'Keep configuration' checkbox, a 'Firmware' input field, a 'Browse' button, and a 'Flashing' button. The footer of the page includes the text 'Jinan USR IOT Technology Limited' and the URL 'http://www.pusr.com'.

### Note:

- The firmware upgrading will last 2-3 minutes, please log into the page again after 3 minutes.
- You can choose whether to enable **Keep Configuration**.
- During the upgrade process, except for the POW light that is always on, all other indicators are flashing.
- When the WORK light flashes again at a frequency of 1s, and the other lights do not flash, the upgrade is successful.

- During the upgrading, please do not power off the device or disconnect the Ethernet cable.

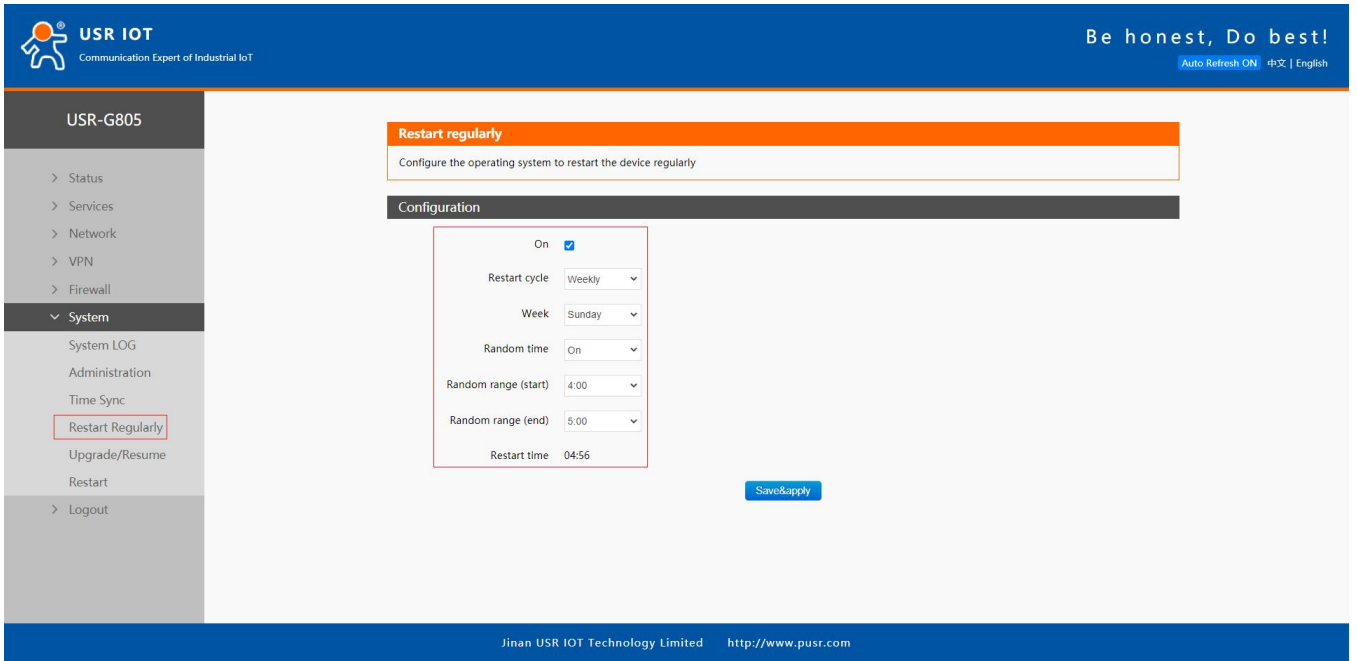
## 2.7. Restart



Click “Restart” to reboot the router. The restart time is the same as the router's power-on start-up time, about 10-15s after the complete startup.

## 2.8. Restart Regularly

We can set the restart rules to any time of every day, every week and every month to clear the running cache regularly and improve the running stability of the router. The page settings are as follows:



The screenshot shows the 'Restart regularly' configuration page in the USR IOT web interface. The left sidebar contains a menu with 'System' expanded, and 'Restart Regularly' is highlighted. The main content area has a title bar 'Restart regularly' and a description 'Configure the operating system to restart the device regularly'. Below this is a 'Configuration' section with a form containing the following fields:

- On:
- Restart cycle: Weekly
- Week: Sunday
- Random time: On
- Random range (start): 4:00
- Random range (end): 5:00
- Restart time: 04:56

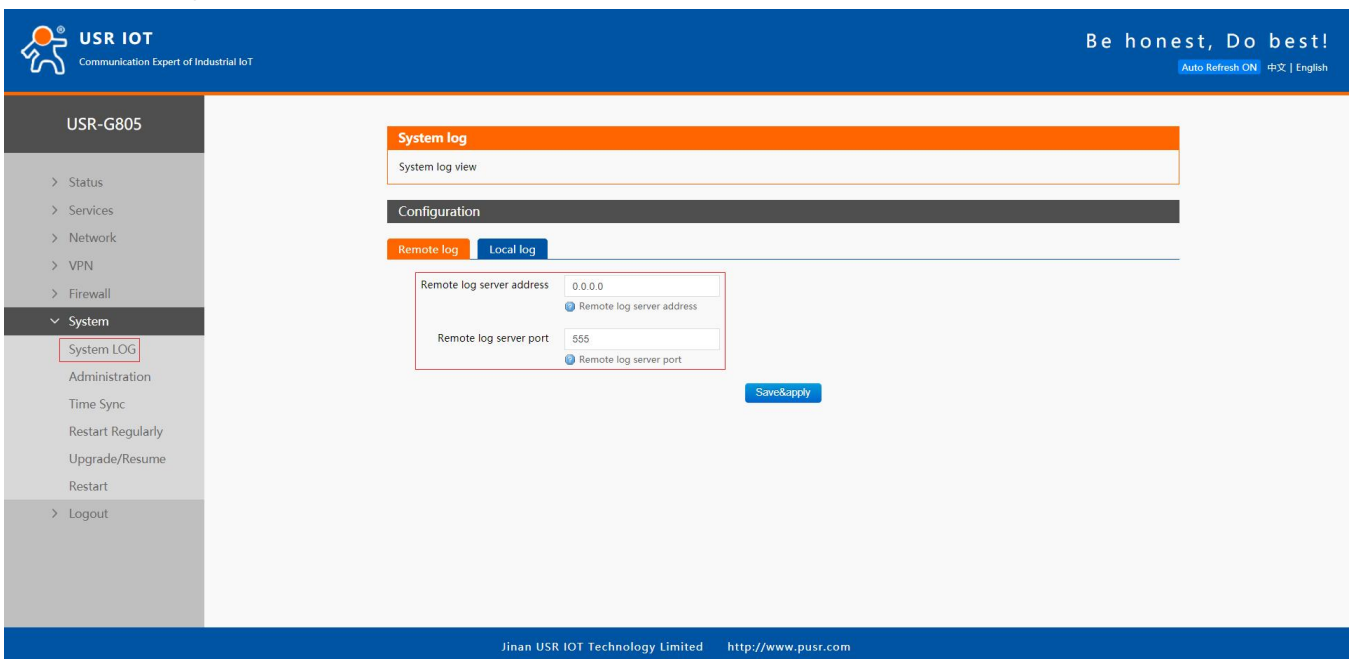
A 'Save&apply' button is located at the bottom right of the configuration form. The footer of the page reads 'Jinan USR IOT Technology Limited http://www.pusr.com'.

## 2.9. Log

Logs include remote log and local log, in **System--System Log**.

### 2.9.1. Remote Log

- Remote log server address: remote UDP server IP address, when IP is 0.0.0.0, the remote log is disabled.
- Remote log server port: remote UDP server port.



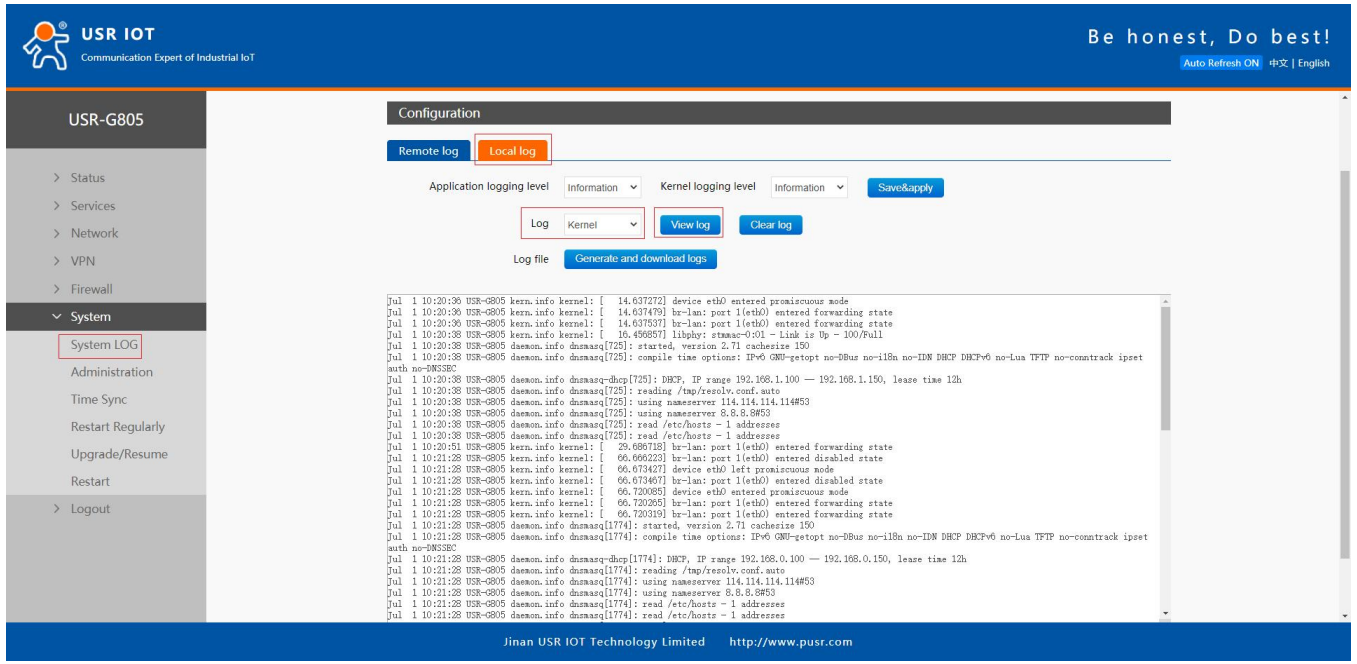
The screenshot shows the 'System log' configuration page in the USR IOT web interface. The left sidebar contains a menu with 'System' expanded, and 'System LOG' is highlighted. The main content area has a title bar 'System log' and a description 'System log view'. Below this is a 'Configuration' section with two tabs: 'Remote log' (selected) and 'Local log'. The 'Remote log' tab contains a form with the following fields:

- Remote log server address: 0.0.0.0
- Remote log server port: 555

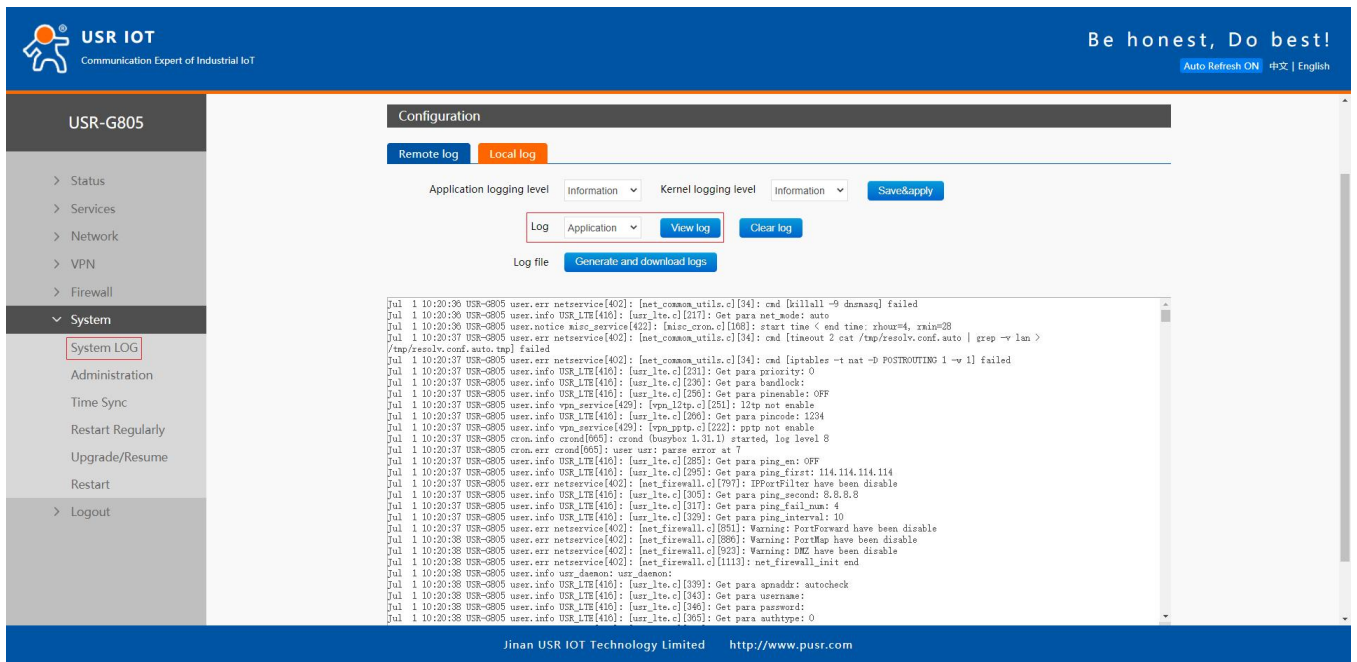
A 'Save&apply' button is located at the bottom right of the configuration form. The footer of the page reads 'Jinan USR IOT Technology Limited http://www.pusr.com'.

## 2.9.2. Local Log

We can view and download the router logs from below interface.



The screenshot shows the USR-G805 web interface. On the left is a navigation menu with 'System LOG' selected. The main area is titled 'Configuration' and has 'Local log' selected. Below this, there are dropdown menus for 'Application logging level' and 'Kernel logging level', both set to 'Information'. There are buttons for 'Save&apply', 'Log', 'Kernel', 'View log', 'Clear log', and 'Generate and download logs'. The log output area shows a list of system messages, including kernel boot logs and daemon startup logs for dnsmasq and dnsmasq-dhcp.

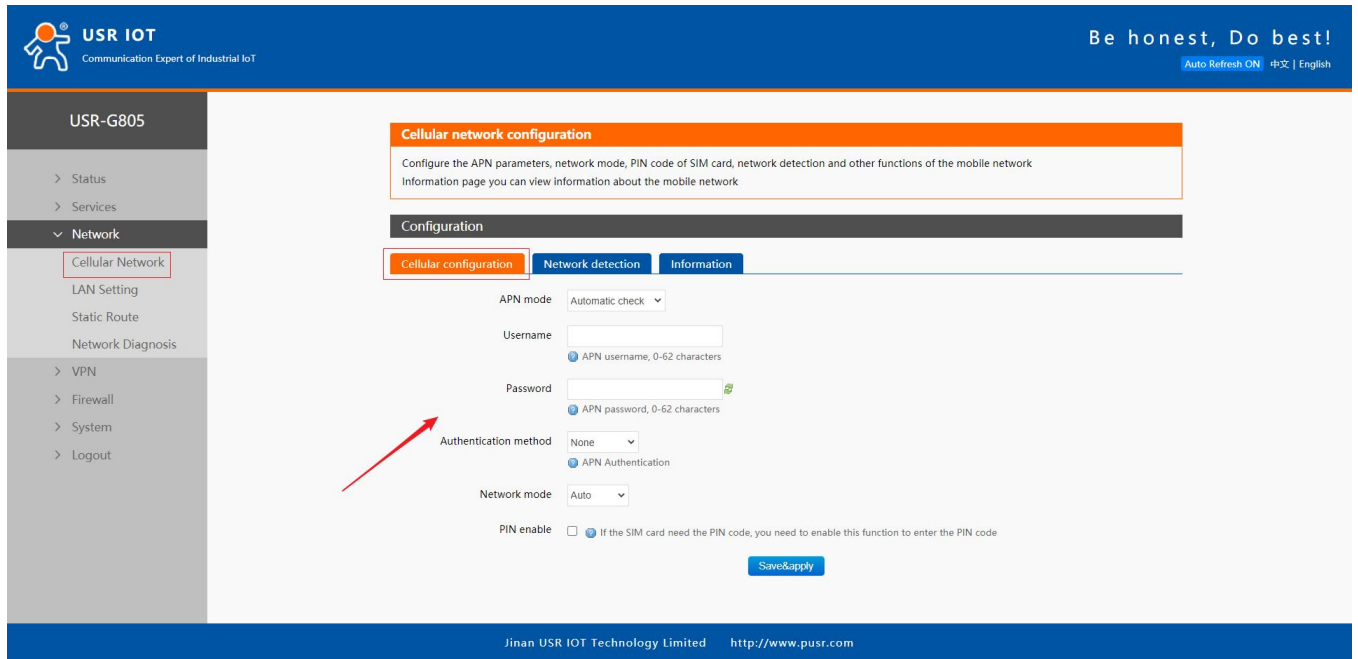


The screenshot shows the USR-G805 web interface. On the left is a navigation menu with 'System LOG' selected. The main area is titled 'Configuration' and has 'Local log' selected. Below this, there are dropdown menus for 'Application logging level' and 'Kernel logging level', both set to 'Information'. There are buttons for 'Save&apply', 'Log', 'Application', 'View log', 'Clear log', and 'Generate and download logs'. The log output area shows a list of user service logs, including messages from netsservice, usr\_info, and usr\_err, detailing various system configurations and errors.

## 3. Network

### 3.1. Cellular Network

#### 3.1.1. Cellular Configuration



**Cellular network configuration**

Configure the APN parameters, network mode, PIN code of SIM card, network detection and other functions of the mobile network  
 Information page you can view information about the mobile network

**Configuration**

**Cellular configuration** | Network detection | Information

APN mode: Automatic check

Username:   
APN username, 0-62 characters

Password:   
APN password, 0-62 characters

Authentication method: None  
APN Authentication

Network mode: Auto

PIN enable:  If the SIM card need the PIN code, you need to enable this function to enter the PIN code

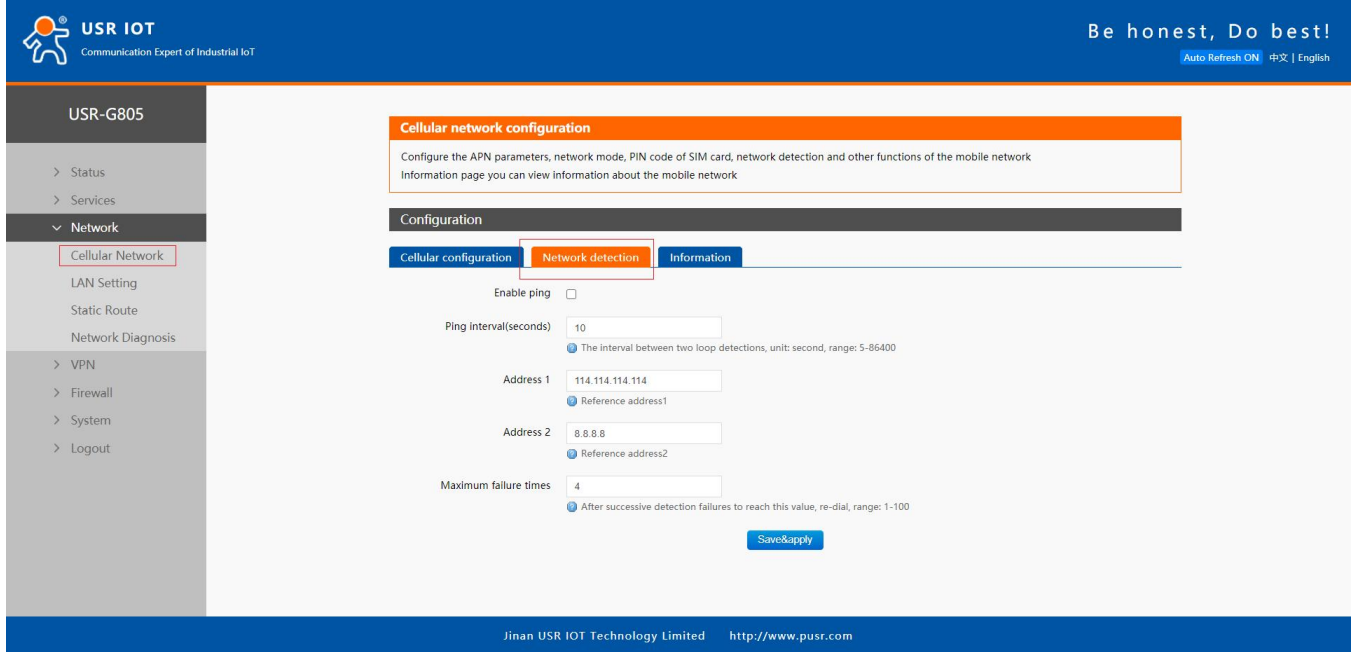
[Save&apply](#)

Jinan USR IOT Technology Limited <http://www.pusr.com>

Option	Description	Default
APN mode	Please set the correct APN address.	Automatic check
Username	APN username	None
Password	APN password	None
Authentication Method	APN authentication type: None/PAP/CHAP/PAP&CHAP	None
Network Mode	AUTO/2G/3G/4G	AUTO
PIN Enable	Enable: Fill in the pin code of the SIM card	Disable
PIN Code	4-8 digits	1234

### 3.1.2. Network Detection

Ping detection is used to check the network status of the device, defaults to be disabled. After enable this function, the device will try to ping the set address, dial again after reaching consecutive failures times.

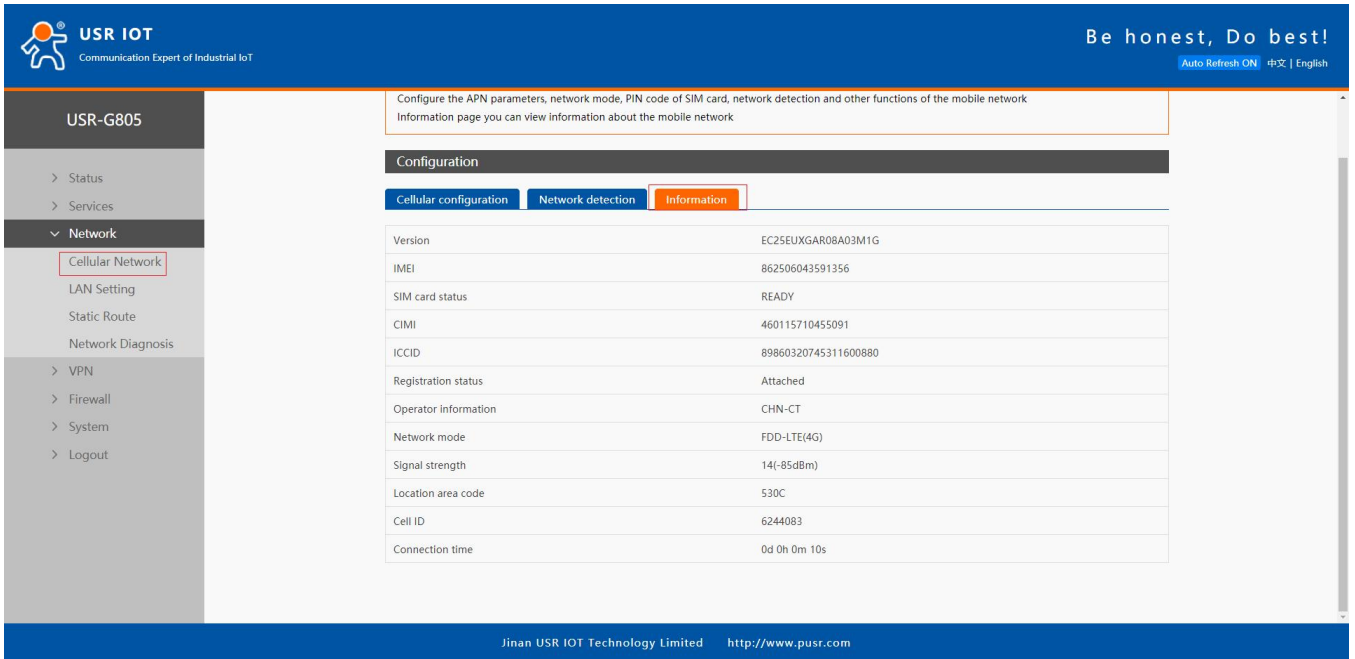


Option	Description	Default
Enable Ping	/	Disable
Ping Interval	Ping time interval, 5-86400s	10
Address 1	Ping detection address: IP/domain name	114.114.114.114
Address 2	Ping detection address: IP/domain name	8.8.8.8
Maximum Failure Times	Dial again after reaching consecutive failures times, 1-100	4

### 3.1.3. Information

Users can check the detailed configuration information of the SIM card.





Configure the APN parameters, network mode, PIN code of SIM card, network detection and other functions of the mobile network  
 Information page you can view information about the mobile network

**Configuration**

Cellular configuration | Network detection | **Information**

Version	EC25EUXGAR08A03M1G
IMEI	862506043591356
SIM card status	READY
CIMI	460115710455091
ICCID	89860320745311600880
Registration status	Attached
Operator information	CHN-CT
Network mode	FDD-LTE(4G)
Signal strength	14(-85dBm)
Location area code	530C
Cell ID	6244083
Connection time	0d 0h 0m 10s

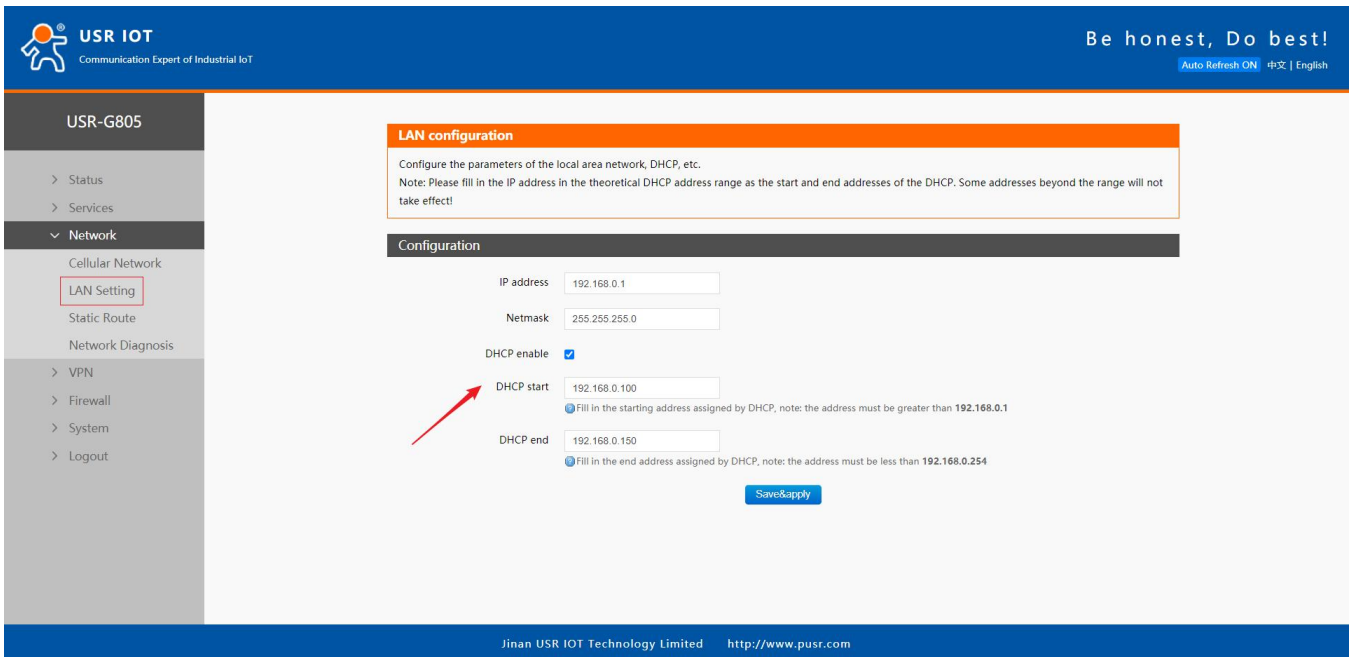
Jinan USR IOT Technology Limited <http://www.pusr.com>

#### Description:

- Unit of the signal strength is dBm and asu.  $\text{dBm} = -113 + 2 * \text{asu}$ .
- asu ranges from 1 to 31, and the higher the value, the better the signal strength.
- In general,  $\text{dBm} \geq -90\text{dBm}$ ,  $\text{ASU} \geq 12$ , the signal is normal.

## 3.2. LAN Settings

USR-G805 supports one wired LAN port.



**LAN configuration**

Configure the parameters of the local area network, DHCP, etc.  
 Note: Please fill in the IP address in the theoretical DHCP address range as the start and end addresses of the DHCP. Some addresses beyond the range will not take effect!

**Configuration**

IP address: 192.168.0.1

Netmask: 255.255.255.0

DHCP enable:

DHCP start: 192.168.0.100  
● Fill in the starting address assigned by DHCP, note: the address must be greater than 192.168.0.1

DHCP end: 192.168.0.150  
● Fill in the end address assigned by DHCP, note: the address must be less than 192.168.0.254

**Save&apply**

Jinan USR IOT Technology Limited <http://www.pusr.com>

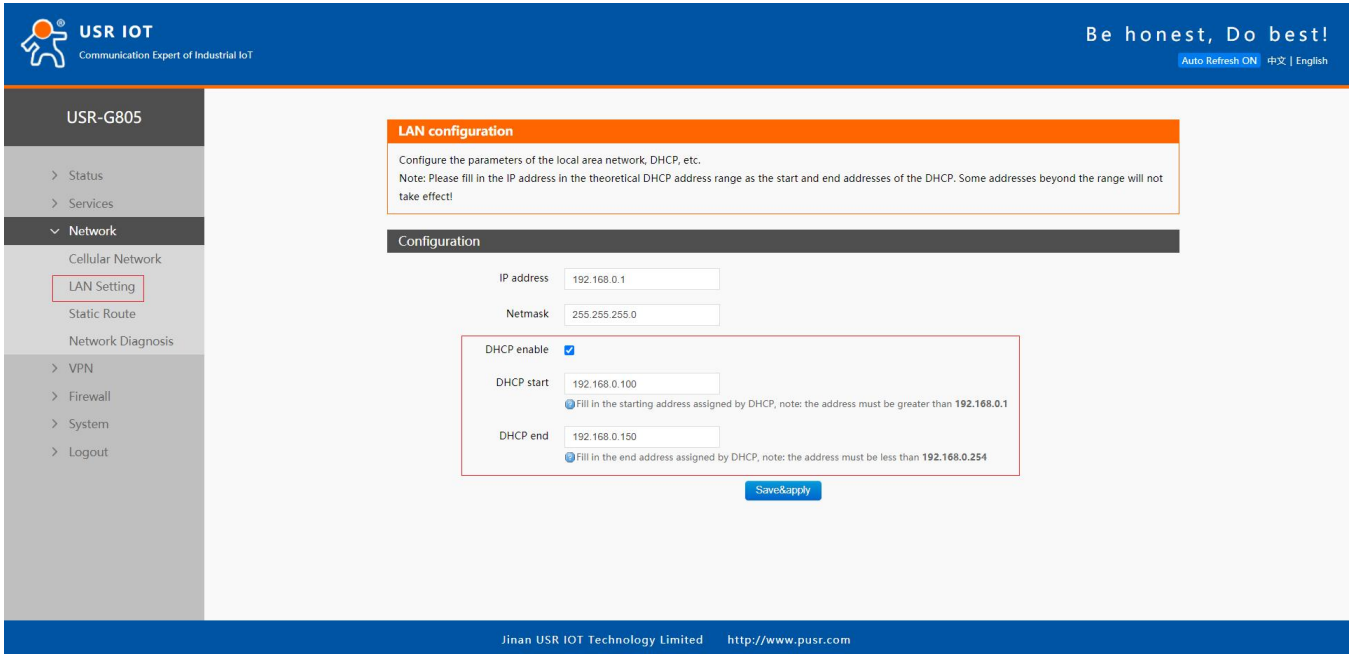
#### Descriptions:

- LAN interface defaults to the static IP address 192.168.1.1 and netmask 255.255.255.0. These parameters can be modified.

- DHCP server function is enabled by default. All devices connected to the LAN port of the router can automatically obtain IP addresses.

### 3.2.1.DHCP Server

DHCP server function of the LAN port is enabled by default (can be disabled).



The screenshot shows the USR IOT web interface for the USR-G805 router. The top navigation bar includes the USR IOT logo and the slogan "Be honest, Do best!". The main content area is titled "LAN configuration" and contains a "Configuration" section. The configuration fields are as follows:

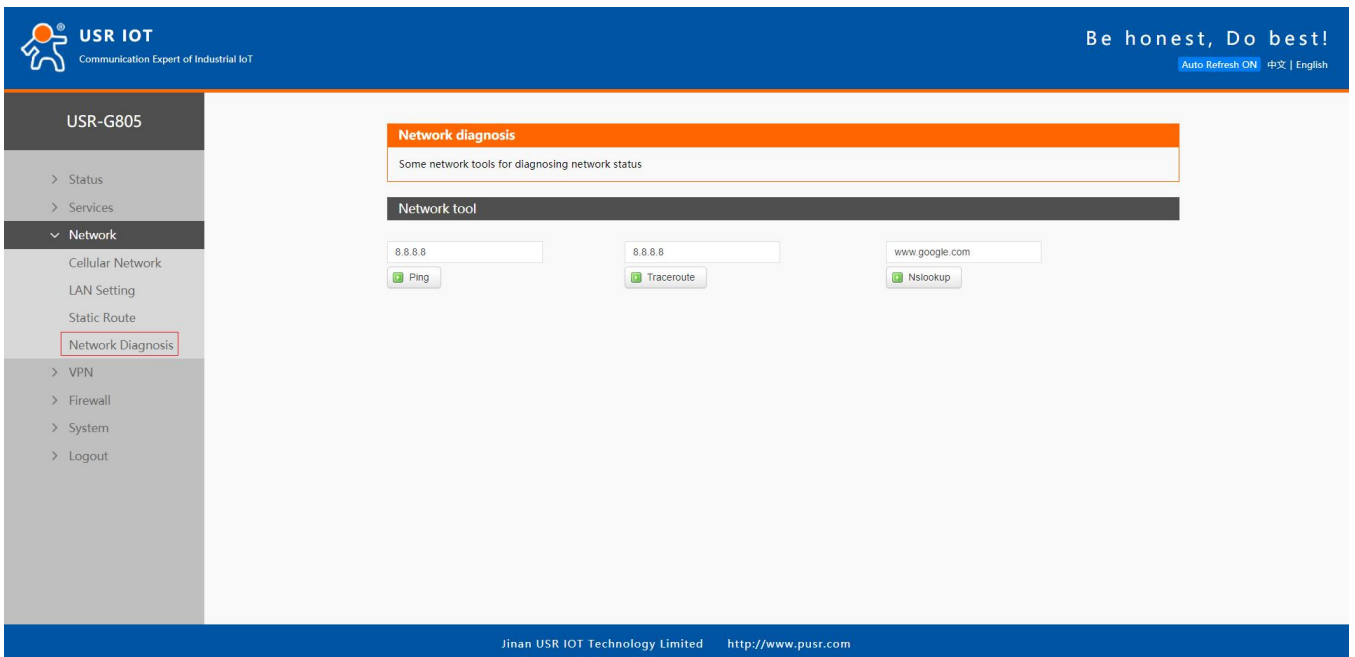
Field	Value
IP address	192.168.0.1
Netmask	255.255.255.0
DHCP enable	<input checked="" type="checkbox"/>
DHCP start	192.168.0.100
DHCP end	192.168.0.150

Below the configuration fields, there are two radio button options for the DHCP start and end addresses, both of which are selected. The first option is "Fill in the starting address assigned by DHCP, note: the address must be greater than 192.168.0.1". The second option is "Fill in the end address assigned by DHCP, note: the address must be less than 192.168.0.254". A "Save&apply" button is located at the bottom right of the configuration section.

Descriptions:

- Users can change the DHCP start address and end address.
- IP assigned by DHCP default to start from 192.168.1.100.
- DHCP default lease is 12 hours.

### 3.3. Network Diagnosis



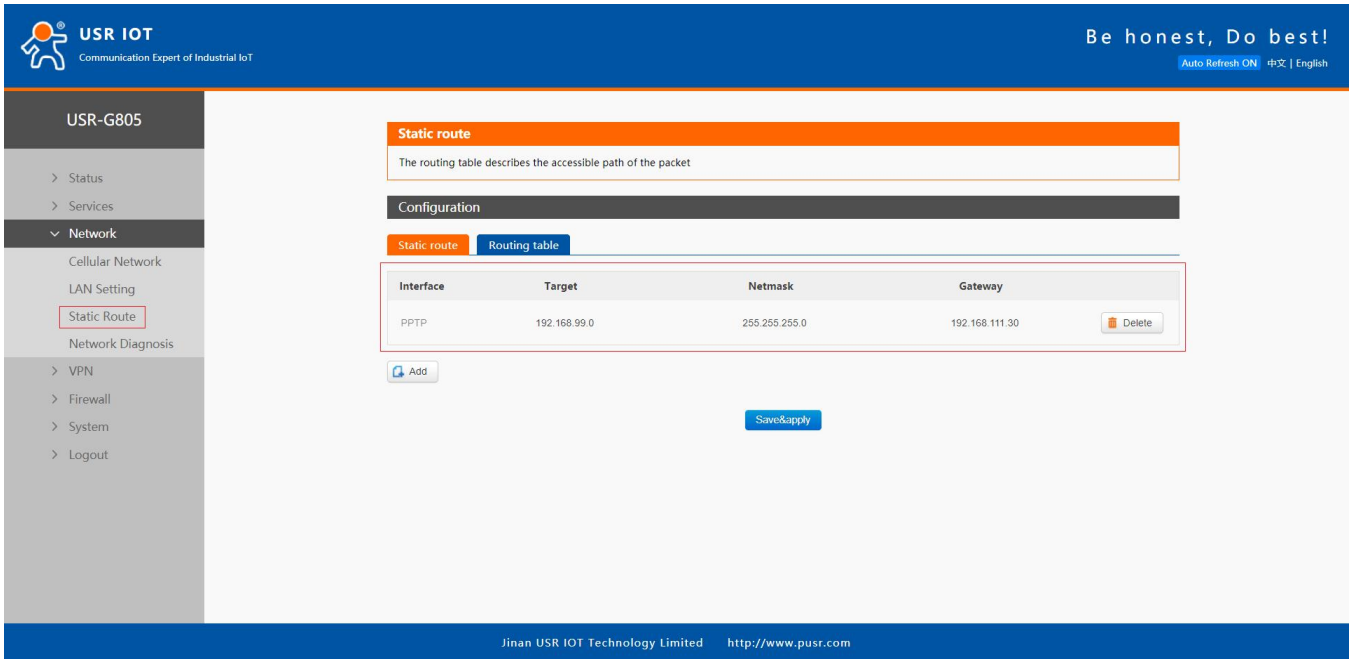
This interface provides users three tools: Ping, Traceroute and Nslookup.

- Ping: Ping a destination address to check the network status.
- Traceroute: Send traceroute request to a destination address.
- Nslookup: Resolve the domain name to an IP address.

### 3.4. Static Route

Option	Description	Default
Interface	wan_4G, lan, PPTP, L2TP	wan_4G
Target	Destination IP address or IP range	Null
Netmask	Netmask of the destination network	Null
Gateway	The IP address to forward to	Null

Static routes describe the routing rules for data packets.



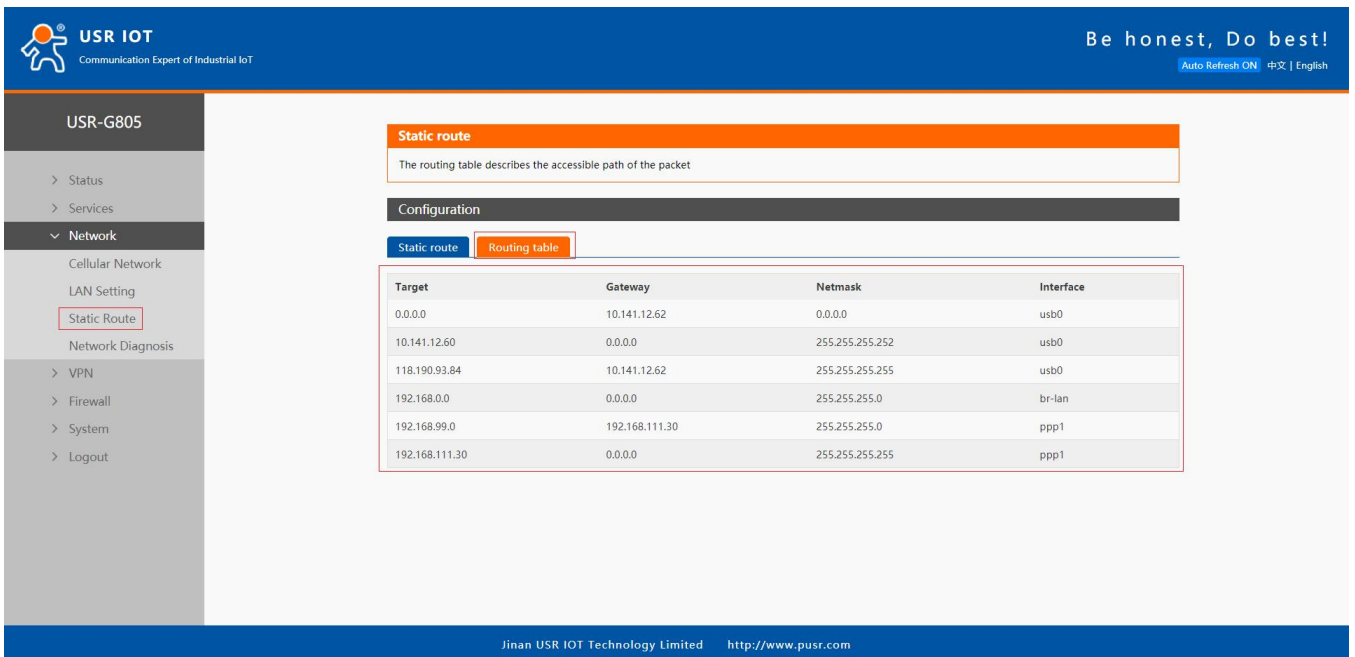
The screenshot shows the 'Static route' configuration page in the USR IOT web interface. The left sidebar contains a navigation menu with 'Static Route' highlighted. The main content area has a title 'Static route' and a description: 'The routing table describes the accessible path of the packet'. Below this is a 'Configuration' section with two tabs: 'Static route' (selected) and 'Routing table'. A table displays the current static route configuration:

Interface	Target	Netmask	Gateway
PPTP	192.168.99.0	255.255.255.0	192.168.111.30

Buttons for 'Add', 'Delete', and 'Save&apply' are visible. The footer contains 'Jinan USR IOT Technology Limited' and 'http://www.pusr.com'.

### 3.4.1. Routing Table

G805 has the routing table display function, and you can check whether the created static route is successful.



The screenshot shows the 'Routing table' view in the USR IOT web interface. The left sidebar is the same as in the previous screenshot. The main content area has the 'Routing table' tab selected. A table displays the routing table contents:

Target	Gateway	Netmask	Interface
0.0.0.0	10.141.12.62	0.0.0.0	usb0
10.141.12.60	0.0.0.0	255.255.255.252	usb0
118.190.93.84	10.141.12.62	255.255.255.255	usb0
192.168.0.0	0.0.0.0	255.255.255.0	br-lan
192.168.99.0	192.168.111.30	255.255.255.0	ppp1
192.168.111.30	0.0.0.0	255.255.255.255	ppp1

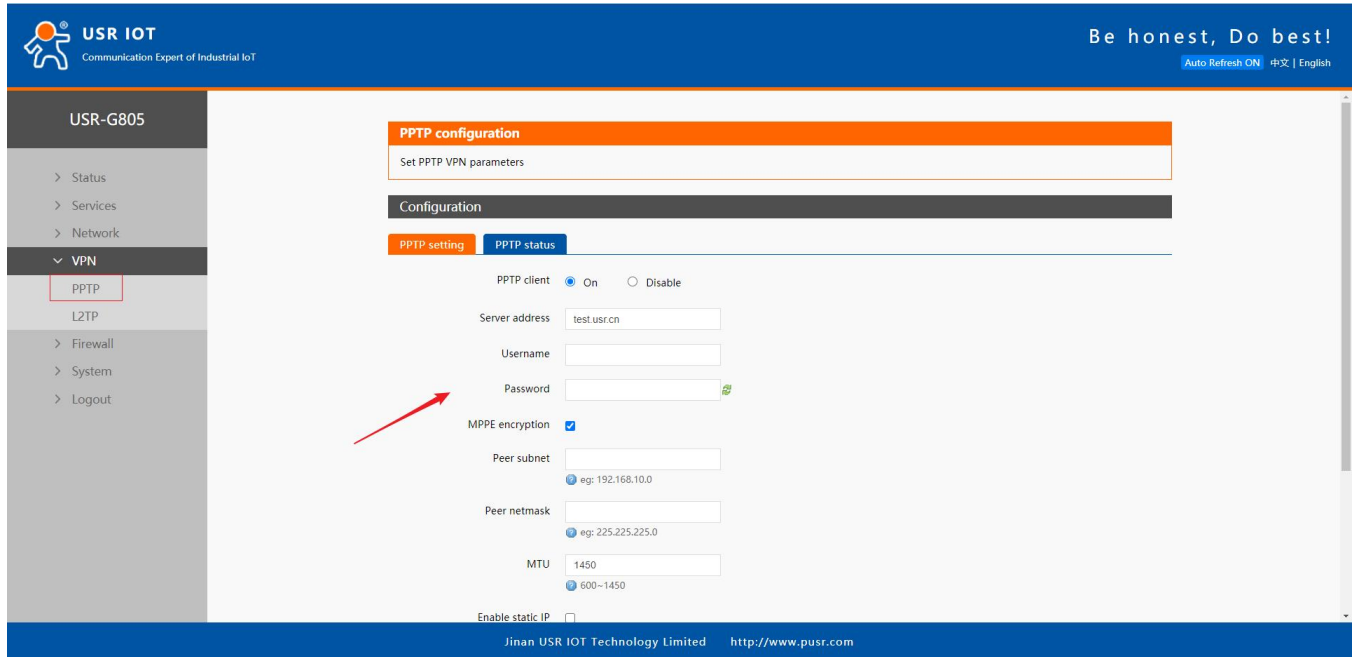
The footer contains 'Jinan USR IOT Technology Limited' and 'http://www.pusr.com'.

## 4. VPN


USR-G805 supports PPTP and L2TP.

### 4.1. PPTP Client

This interface allows users to set the PPTP server parameters.



Option	Description	Default
Server address	VPN server address or domain name	test.usr.cn
Username/Password	Get from the VPN server	Null
MPPE Encryption	MPPE or no encryption	MPPE
MTU	Consistent with the VPN server	1450
Peer Subnet/Netmask	If the settings are correct, the subnet intercommunication function under the VPN can be realized.	Null
Enable Static IP	When it is disabled, VPN server will assign an IP address dynamically.	Disable
Extra Settings	Append pppd parameters, magic number.	Null
Enable Ping	Real-time VPN online detection and reconnection mechanism.	Disable

 **USR IOT**  
Communication Expert of Industrial IoT
Be honest, Do best!  
[Auto Refresh ON](#) 中文 | English

**USR-G805**

- > Status
- > Services
- > Network
- ▼ **VPN**
  - PPTP**
  - L2TP
- > Firewall
- > System
- > Logout

Peer subnet  eg: 192.168.10.0

Peer netmask  eg: 225.225.225.0

MTU  600-1450

Enable static IP

Extra settings

Fill in the matching parameters, illegal parameters will cause the VPN connection failure

Enable Ping  ping failure will reconnect to the VPN server

Address  eg: 10.10.10.1


Ping interval(seconds)  1-86400

Ping failure times  After successive detection failures to reach this value, re-connect

[Save&apply](#)

Jinan USR IOT Technology Limited <http://www.pusr.com>

After connecting to PPTP server, we can check the connection status in "VPN Status".

 **USR IOT**  
Communication Expert of Industrial IoT
Be honest, Do best!  
[Auto Refresh ON](#) 中文 | English

**USR-G805**

- > Status
- > Services
- > Network
- ▼ **VPN**
  - PPTP**
  - L2TP
- > Firewall
- > System
- > Logout

**PPTP configuration**  
 Set PPTP VPN parameters

**Configuration**

PPTP setting

PPTP status

Network card	ppp1
IPv4-address	192.168.111.39
Netmask	255.255.255.255
Gateway	192.168.111.30
Starting time	0d 0h 45m 42s

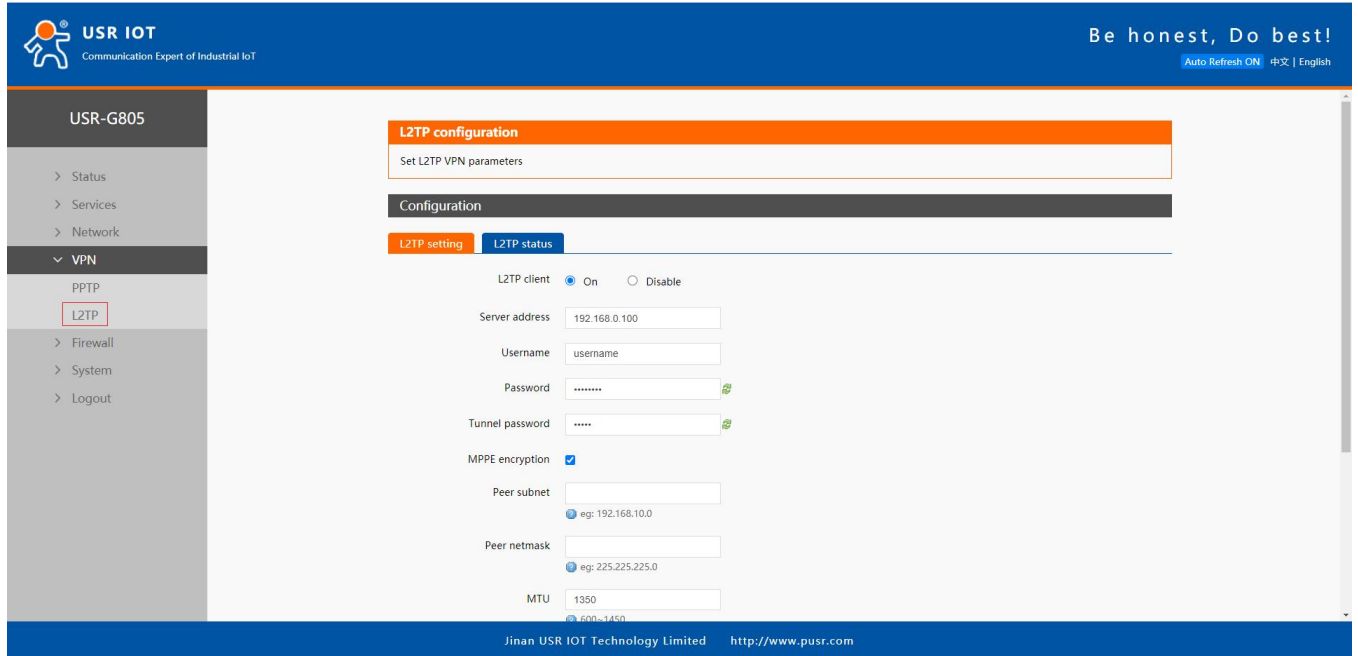
Jinan USR IOT Technology Limited <http://www.pusr.com>

## 4.2. L2TP Client

L2TP is the layer 2 tunneling protocol which similar to PPTP.

G805 supports tunnel password authentication and MPPE encryption.

In **VPN---L2TP**, enable L2TP Client, set the related parameters.



Option	Description	Default
Server address	VPN server address or domain name	192.168.0.100
Username/Password	Get from the VPN server	Null
Encryption/Authentication	Tunnel password, MPPE, consistent with the VPN server.	MPPE
Enable Static IP	When it is disabled, VPN server will assign an IP address dynamically.	Disable
Peer Subnet/Netmask	If the settings are correct, the subnet intercommunication function under the VPN can be realized.	Null
Enable Static IP	When it is disabled, VPN server will assign an IP address dynamically.	Disable
Extra Settings	Append pppd parameters, magic number.	Null
Enable Ping	Real-time VPN online detection and reconnection mechanism.	Disable

## 5. Firewall

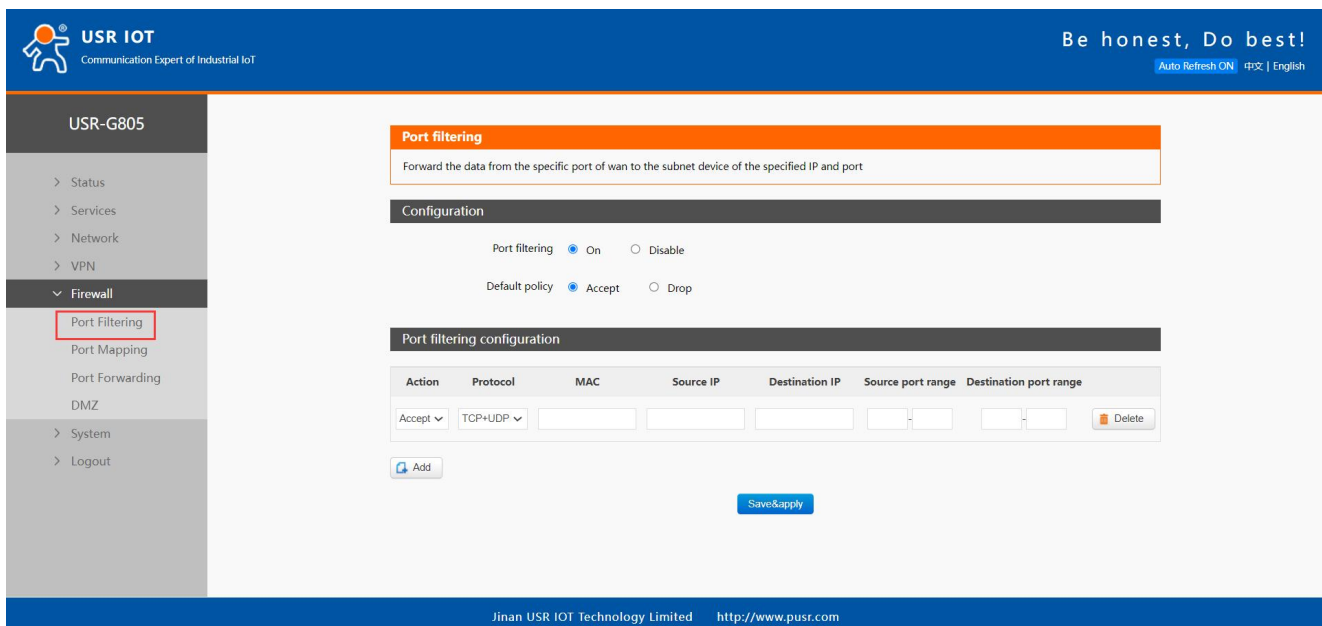
### 5.1. Port Filtering

Port filtering is used to filter, allow or drop specific ports, IPs, and MACs.

Option	Description	Default
On/Disable	/	Disable
Default Policy	Accept: accept all the data from WAN port. Drop: drop all the data from WAN port.	Accept
Action	Accept/Drop	Accept
Protocol	TCP+UDP/TCP/UDP/ICMP	TCP+UDP
MAC	MAC address to be filtered, can be empty	Null
Source IP	Filter packets with this source IP, can be empty	Null
Destination IP	Filter packets with this destination IP, can be empty	Null
Source Port Range	Filter packets with source port numbers in this range	Null
Destination Port Range	Filter packets with destination port numbers in this range	Null

Note:

- Do not set the default policy arbitrarily. When the default policy is set to drop, all devices on the internal network may not be able to access the external network.
- Up to 10 rules can be added.



The screenshot shows the USR IOT web interface for the USR-G805 device. The left sidebar contains a navigation menu with 'Firewall' expanded and 'Port Filtering' selected. The main content area is titled 'Port filtering' and includes a description: 'Forward the data from the specific port of wan to the subnet device of the specified IP and port'. Below this is a 'Configuration' section with radio buttons for 'Port filtering' (On/Disable) and 'Default policy' (Accept/Drop). The 'Port filtering configuration' section features a table with columns for Action, Protocol, MAC, Source IP, Destination IP, Source port range, and Destination port range. A 'Delete' button is present next to the table. At the bottom, there are 'Add' and 'Save&Apply' buttons.

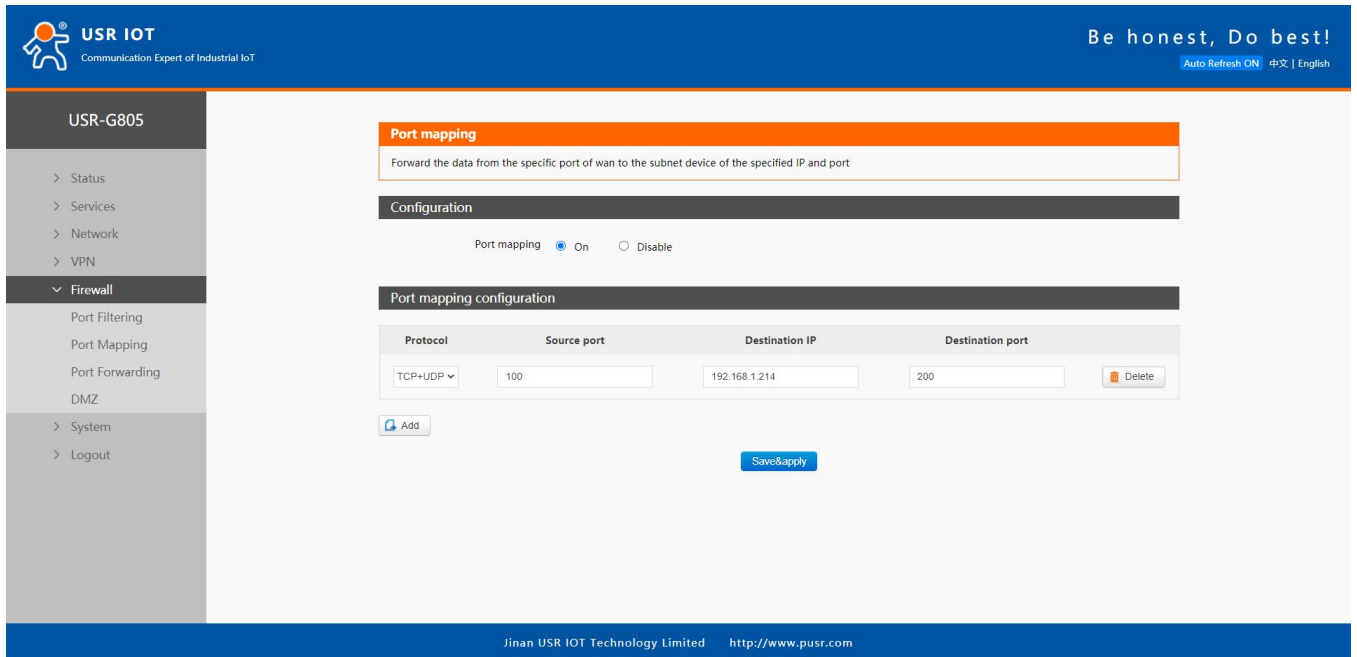


## 5.2. Port Mapping

Port mapping allows computers from the Internet to access computers or services within a private LAN network.

The following configuration can achieve: when the external network (4G/PPTP/L2TP) access the port 100 of the router, it can be directly mapped to the port 200 of 192.168.1.214 under the LAN port, realizing the intranet penetration function.

Note: No port mapping is added by default. When using this function, please configure it according to your specific needs. The maximum number of rules is 10.



The screenshot shows the web interface for configuring port mapping on a USR-G805 router. The interface includes a navigation menu on the left with options like Status, Services, Network, VPN, Firewall, and System. The main content area is titled 'Port mapping' and contains a description: 'Forward the data from the specific port of wan to the subnet device of the specified IP and port'. Below this is a 'Configuration' section with a radio button to toggle 'Port mapping' between 'On' and 'Disable'. The 'Port mapping configuration' section features a table with the following data:

Protocol	Source port	Destination IP	Destination port
TCP+UDP	100	192.168.1.214	200

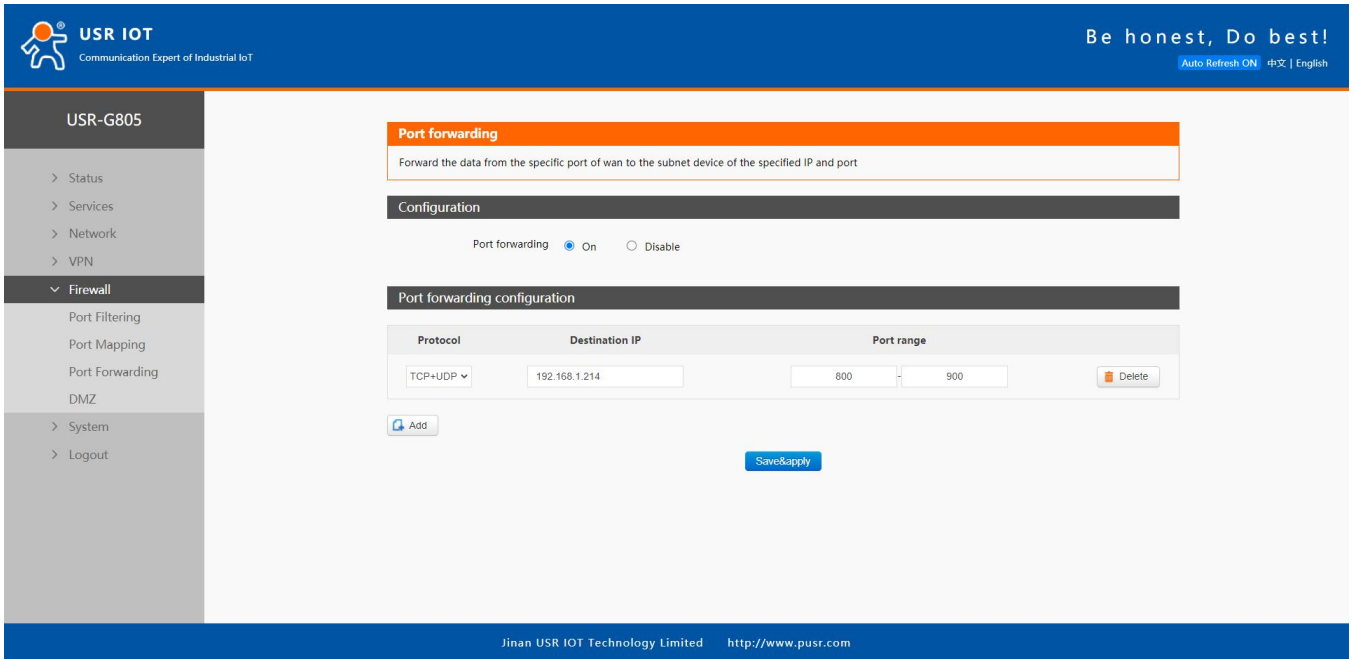
Buttons for 'Add' and 'Delete' are present next to the table row, and a 'Save&apply' button is at the bottom of the configuration area.

Option	Description	Default
On/Disable	/	Disable
Protocol	TCP+UDP/TCP/UDP	TCP+UDP
Source Port	Router port number for external network access	Null
Destination IP	IP address to be mapped to	Null
Destination Port	Port to be mapped to	Null

## 5.3. Port Forwarding

Note:

- Port forwarding is similar to port mapping, the difference is the range of forwarding ports.
- Port forwarding and port mapping cannot be used at the same time.
- Up to 10 port forwarding rules can be added.



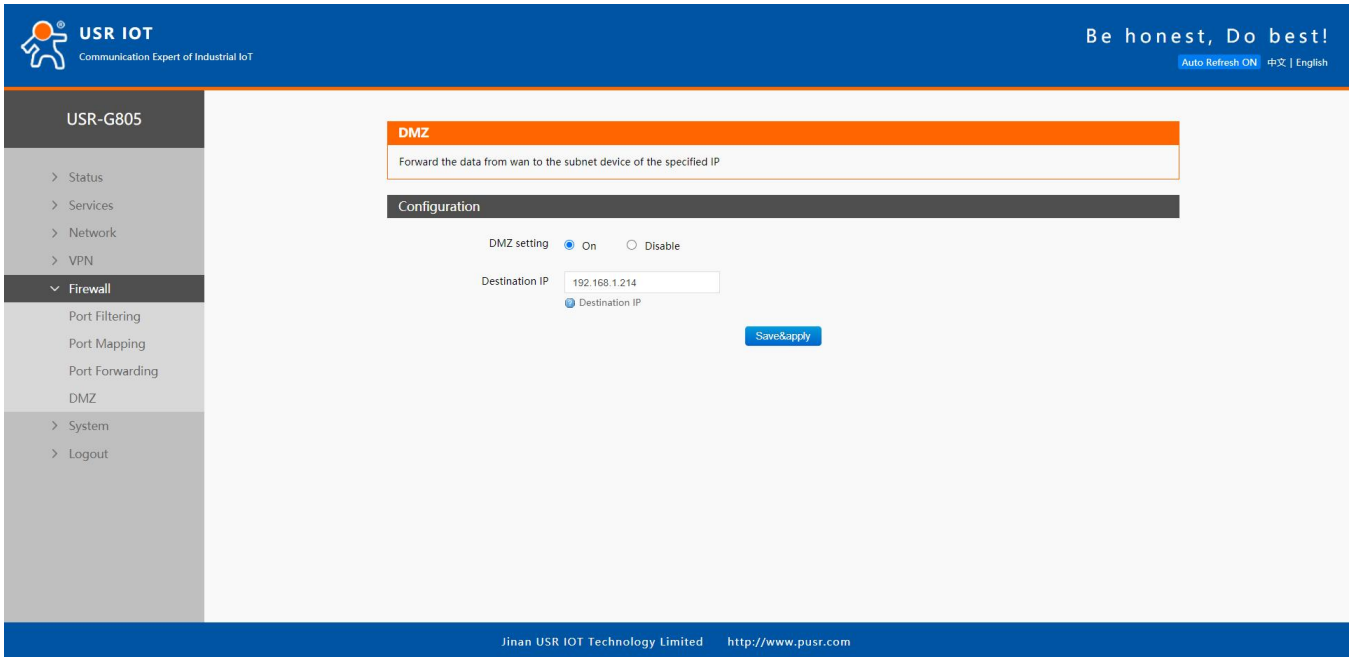
Option	Description	Default
On/Disable	/	Disable
Protocol	TCP+UDP/TCP/UDP	TCP+UDP
Destination IP	IP address to be mapped to	Null
Port Range	Port range for data mapping must be consistent. For example, the above picture: the data accessing port 800 of USR-G805 from the external network will be forwarded to port 800 of the subnet IP 192.168.1.214	Null

## 5.4. DMZ

Port mapping is to map a specified port of the WAN port address to a host on the intranet, and the DMZ function is to map all the ports of the WAN port address to a host.

As shown in the picture, all ports of the WAN port address are mapped to the host of the intranet 192.168.1.214.

Note: Port mapping, port forwarding and DMZ functions cannot be used at the same time.



The screenshot displays the web management interface for a USR-G805 router. On the left is a navigation sidebar with a 'Firewall' section expanded to show 'DMZ'. The main content area is titled 'DMZ' and contains a text input field with the instruction 'Forward the data from wan to the subnet device of the specified IP'. Below this is a 'Configuration' section with 'DMZ setting' set to 'On' and 'Destination IP' set to '192.168.1.214'. A 'Save&Apply' button is located at the bottom right of the configuration area. The footer of the interface shows 'Jinan USR IOT Technology Limited' and the URL 'http://www.pusr.com'.

## 6. Advanced Services

### 6.1. PUSR Cloud

PUSR Cloud address: <https://account.usriot.com/>

PUSR Cloud function is enabled by default. For details about connecting USR-G805 devices to our PUSR Cloud, please refer to this manual: [Remote Management of USR Router](#)

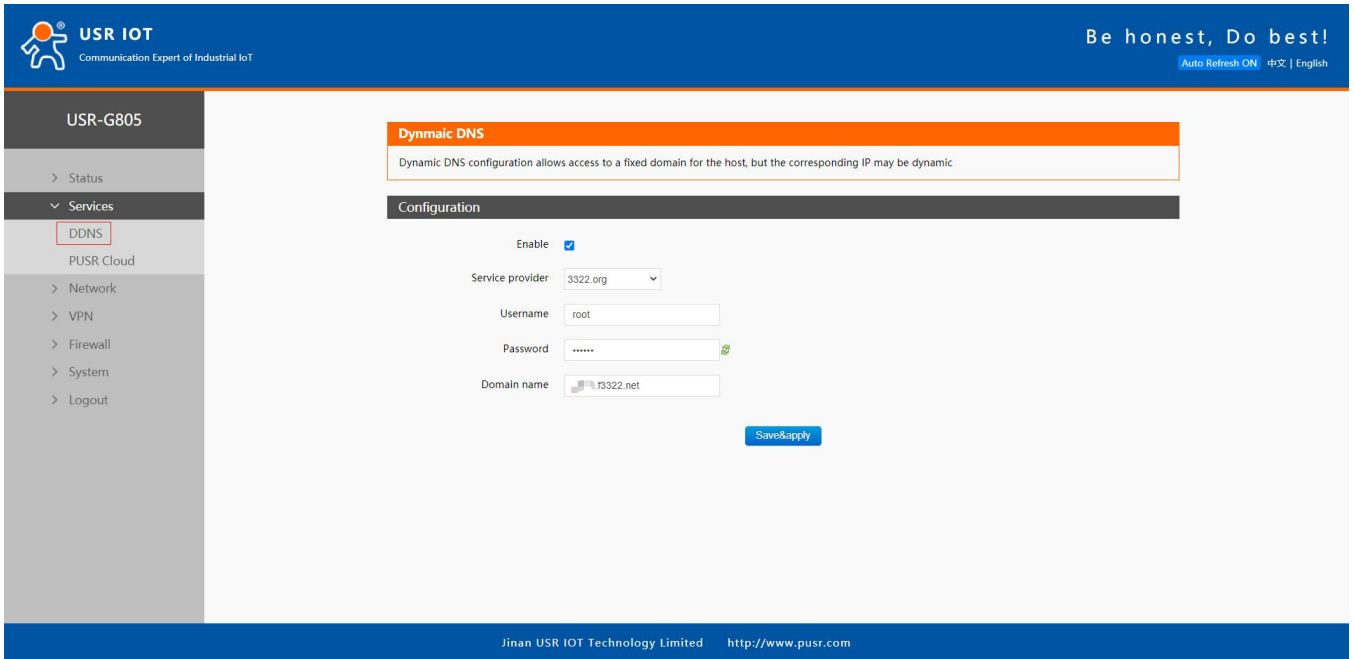
### 6.2. DDNS

DDNS function allows remote access to the router directly through the domain name instead of your dynamic IP address, which changes from time to time.

This function needs to be achieved with a public IP address SIM card.

#### 6.2.1. Supported Services

If you are using the DNS service provider can be found in **Services Provider** drop-down box, please configure like below, here we take “3322” as an example:



Option	Description	Default
Enable	/	Disable
Service Provider	DDNS server address, here we take "3322" as an example.	Null
Username	Username provided by the DDNS server	Null
Password	Password provided by the DDNS server	Null
Domain Name	Domain name provided by the DDNS server	Null

Our test domain name is like below:

```

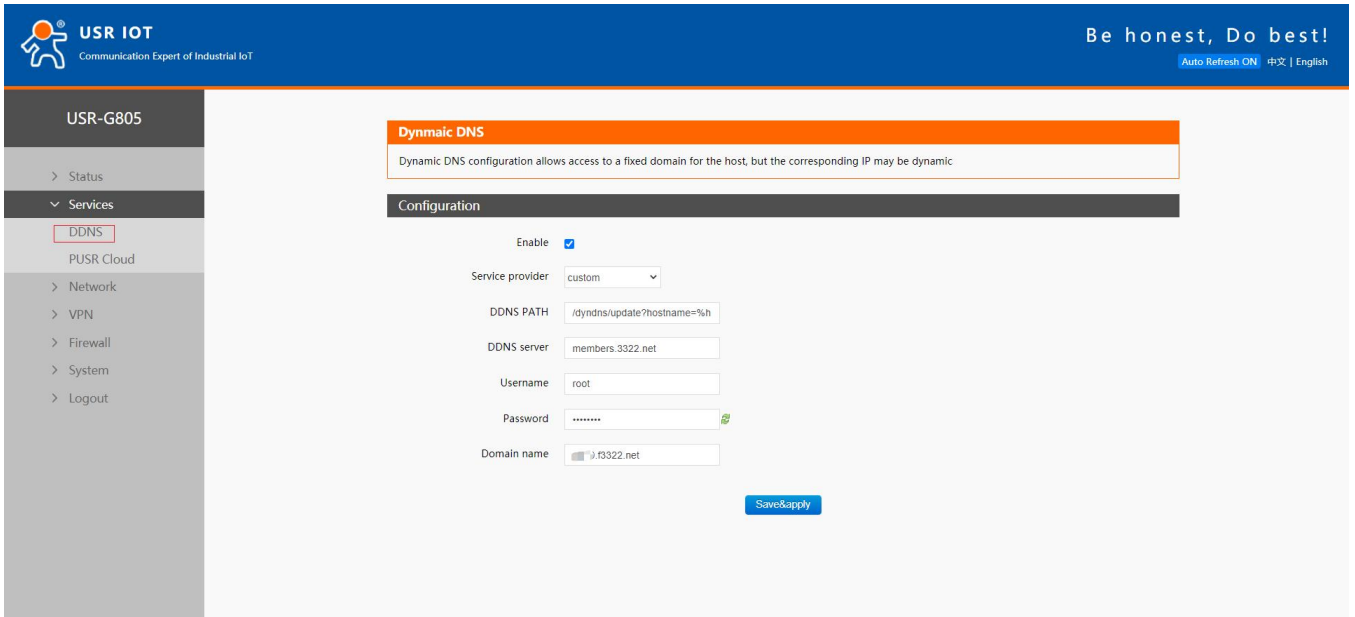
C:\Users\yuanshuangshuang>nslookup [redacted].f3322.net
服务器: UnKnown
Address: 192.168.0.1

非权威应答:
名称: [redacted].f3322.net
Address: 113.129.183.57
    
```

Note: After the DDNS connection is successful, the IP resolved from the domain name is the public IP of the device.

## 6.2.2. Custom Services

If you are using the DNS service provider can not be found in **Service Provider** drop-down box, please select "Custom", then configure like below, here we also take "3322" as an example:



 Jinan USR IOT Technology Limited <http://www.pusr.com>

Option	Description	Default
Enable	/	Disable
Service Provider	custom	Null
DDNS PATH	DDNS server HTTP request: /dyndns/update?hostname=%h Note: /dyndns/update of each DDNS server is different, please fill in the correct PATH provided by the DDNS server.	Null
DDNS Server	DDNS server address	Null
Username	Username provided by the DDNS server	Null
Password	Password provided by the DDNS server	Null
Domain Name	Domain name provided by the DDNS server	Null

```

C:\Users\yuanshuangshuang>nslookup [redacted].f3322.net
服务器: UnKnown
Address: 192.168.0.1

非权威应答:
名称: [redacted].f3322.net
Address: 113.129.183.57
    
```

Note: After the DDNS connection is successful, the IP resolved from the domain name is the public IP of the device.

## 7. Contact Us

Company: Jinan USR IOT Technology Limited

Address : Floor 12 and 13, CEIBS Alumni Industrial Building, No. 3 Road of Maolingshan, Lixia District, Jinan, Shandong, China

Official website: <https://www.pusr.com>

Official shop: <https://shop.usriot.com>

Technical support: <http://h.usriot.com/>

Email: [sales@usriot.com](mailto:sales@usriot.com)

Tel: +86-531-88826739

Fax: +86-531-88826739-808