# User Manual

---Apply to RT620 4G/3G RTU Gateway

V1.5

http://www.wlink-tech.com

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**Caution**

Due to product updates or functional upgrading, we may renew the content of this file, and this file only for reference. All statement, information, suggestion .etc in this file do not compose any form of guarantee and we WLINK reserves the right of final explanation.

# Shenzhen WLINK Technology Company Limited

Add： 2A, F5 Building, TCL International E City, No.1001 Zhongshanyuan Rd., Nanshan Dist., Shenzhen, 518052, China

Web： http://www.wlink-tech.com

Service Email： support@wlink-tech.com

Phone： 86-755-86089513

Fax： 86-755-26059261

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# 1 Product Introduction

## 1.1 Product Overview

RT620 is an intelligent acquisition and transmission terminal device that focuses on the acquisition, data processing, transmission of cellular connections. The device supports various analog signal sensors, switch signal sensors and RS485 communication interface; supports GPS/Beidou positioning acquisition and transmits location information through 3G/4G mobile network,.

The built-in temperature sensor allows users to better collect and judge the ambient temperature.

Rechargeable built-in clock battery supports power-down operation of the real-time clock.

Rich interface resources can cater to various changing and complex market application scenarios.

## 1.2 Product Appearance


Front View


Back View

## 1.3 Equipment configuration and accessories

Accessories are described in Table 1-1.

| Accessories name | Quantity | Remark |
|---|---|---|
| RT620 | 1x | None |
| WIFI Antenna | 1x | None |
| 4G Antenna | 1x | None |
| Network Cable | 1x | None |
| Terminal Block | 1x | None |
| Installation Kit | 1x | None |
| Certificate of Conformity | 1x | None |
| Power Adapter | 1x | 24 V /1A |

Table 1-1

## 1.4 Functional Features

### ➢ Basic Features

- 3G/4G
- RS485, Modbus-RTU Protocol Support, up to 32 devices can be mounted on a single channel.
- DI: Digital signal input: connect to switch signals such as door sensors and smoke detectors
- ADC Input: It can be connected to an external 4~20mA current sensor or a 0~+5V voltage sensor,
- Wide voltage power supply, anti-reverse protection. The power supply range can reach 18V~32V DC; the standard power supply is 24V/1A DC power supply.
- Built-in clock battery
- Local parameter configuration and status viewing through the web page.
- The built-in programmable function is used to collect the analog and switch values of the

machine, as well as the data of the Modbus protocol sensor connected to the serial port and control the relay output. Support local data calculation

- **Scalability**

- Support GPRS/WCDMA/TDD-LTE/FDD-LTE wireless real-time transmission of regular data
- Support remote parameter setting, modification or reset.
- Support remote firmware upgrade.
- Support Detran M2M terminal remote management protocol.
- Support MQTT protocol, send data to public cloud server.
- Scalable large-capacity data storage (8GB~64GB), common applications can meet at least one month of local data storage.
- Built-in temperature sensor.
- Optional support for GPS or Beidou satellite positioning.
- Support Wi-Fi to expand local applications, handheld terminals can be connected through Wi-Fi or APP to view the status of local devices.

# 1.5 Technical indicators and specifications

| Name | Spec | Remark |
|---|---|---|
| **Physical properties** | | |
| Size | 236 X 125 X 40 mm | |
| Weight | 500g | |
| Operating temperature | -30 ～ 75℃ | |
| Storage temperature | -40 ～ 85℃ | |
| Humidity | 0% ～ 95% No condition | |
| Shock | SAE J1455 | |
| **System** | | |
| CPU | MIPS32 74K Core. 533MHz/560DMIPs | Up to MIPS32 74K Core. 533MHz/560DMIPs |
| Flash | 8MB | Up to 16MB |
| RAM | 64MB | Up to 128MB |
| Microprocessor | Cortex M3 | |
| Internal storage | 8GB | Up to 64GB |
| **Electrical properties** | | |
| Operating Voltage | +18V～+32V DC（Standard 24V/1A power adapter） | Lower than 18V will lead to inaccurate 12V output |
| Working average power consumption | 180mA/24V | 4G and Wi-Fi enable |
| Standby power consumption | 100mA/24V | 4G and Wi-Fi disable |
| **4G/3G** | | |
| Module | Industrial grade | The frequency band needs to indicate the country or region |
| Frequency | FDD Band1/3/5 \| TDD Band38/39/40/41 \|WCDMA 900/2100MHz | |
| Output | Class4（2W）@900MHz；Class1（1W）@1800MHz | |
| GPRS | Class10 | |
| Communication Protocol | PPP、TCP、UDP、Ping | |
| Gain | 1.4dBi@900MHz，3dBi@1800MHz | |
| RF impedance | 50Ω | |
| SIM card | 1.8/3V micro-SIM | |
| **Data storage** | | |
| Data storage | Expandable to a maximum of 64GB data storage space | Customization, determine the storage time according to the user agreement |

| **Physical interface** | | |
|---|---|---|
| 24 Power Input | Power input, support V+, V- reverse connection; Vin=18 ~ 32V | Standard 24V@1A power adapter |
| 24 Power Output | Power output = Vin – 1V; for 24V sensor equipment to take power | Equivalent input power voltage value |
| +12V Power Output | 12V DC output, for 12V sensor equipment to take power | |
| +5V Power Output | 5V DC output, for DI wet contact to take power | |
| AI | 12 channels of analog signal input detection, 12Bit precision | |
| DI dry contact | 12-channel switch signal input detection | |
| DI wet contact | 4 channels 0 - 5V voltage digital signal detection | |
| The relay | | |
| **Communication interface – the wireless communication part can be extended to support** | | |
| WAN/LAN | 10/100M Ethernet port, can be set as wired WAN port or LAN port | |
| LAN | 10/100M Ethernet port, local area network LAN port | |
| USB2.0 | Can be used for external data storage or encryption, upgrade | |
| 4G Main ANT | 4G/3G Main antenna for mobile communication | **The corresponding external antenna must be connected** |
| 4G Aux ANT | 4G/3G Auxiliary antenna for mobile communication | |
| Wi-Fi | 2.4G Wi-Fi Antenna | |
| GPS/BD | GPS / Beidou Antenna | |
| SIM | Drawer SIM card slot | |
| RS485 | Support 3 channels RS485 local communication interface, which can be used to connect sensor equipment with 485 interfaces | **The default baud rate is 9600** |
| RS232 | Support 1 RS232 local communication interface, which can be used for system configuration | **The default baud rate is 115200** |
| | | |

Table1-2

# 2 Hardware Installation

## 2.1 Prepare

| | |
|---|---|
| RT620 | RT620 |
| USB to Serial Cable | It is used for parameter configuration and debugging and needs to be purchased by the user.<br>It is recommended to buy a superior quality USB-to-serial cable to avoid various problems that are difficult to judge.<br>Not required if the computer has a physical serial port. |
| RS232/RS485 | Need to be purchased by users. |
| Power | 220V AC, used to provide power for RT620 products.<br>For other power environments, please contact our technical support for help. |
| Serial port debugging software | It is used to assist in debugging RT620, check the running status of RT620 to know whether it is working correctly. You can download general related software from the internet or contact our technical support. |
| Upgrade the software | It is used to upgrade the program of RT620, or restore the default parameters, which can be downloaded from our website.<br>Note: Under normal circumstances, it is not necessary to upgrade the program and restore the default parameters. Please contact our technical support to confirm the necessity before performing this operation. |
| Internet | The communication function used to debug RT620 can be realized by using ADSL broadband, or portable mobile access devices such as USB modem. |
| Business platform | User's own business platform software. In order to facilitate debugging, it is recommended that users connect to the temporary platform of the UDP/TCP test software first, and then change the RT620 to the business platform after the debugging is completed. |

Table 2-1

## 2.2 Product Interfaces

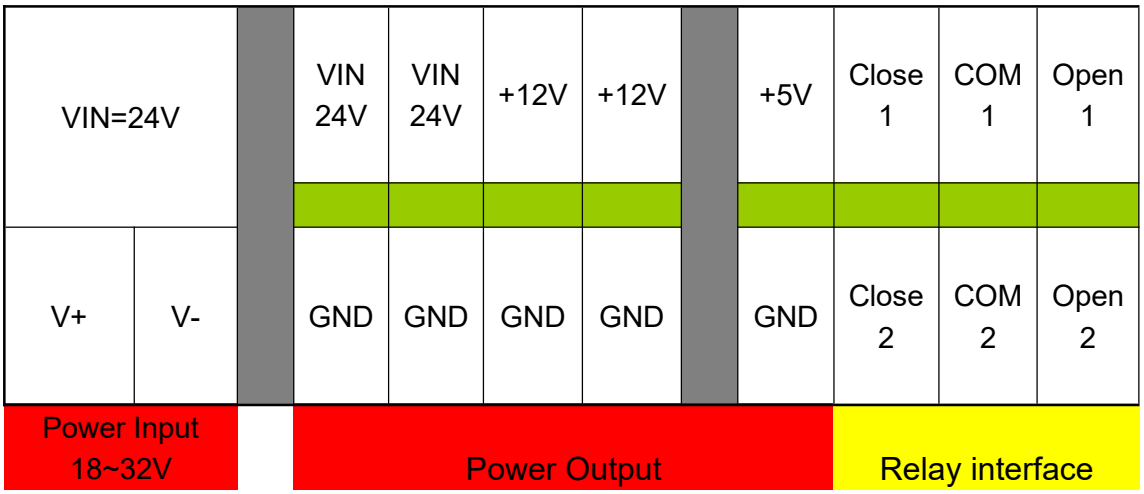
>>>Front View<<<


| Port/LED | Remark |
|---|---|
| LAN | 10/100M Ethernet port |
| WAN/LAN | 10/100M Ethernet port |
| USB2.0 | USB2.0 |
| RST | Restore the default value switch, press, and hold for 8-15 seconds to restore the system factory configuration |
| NET（LED） | Network indicator light |
| WAN（LED） | Network port indicator light, flashes when connected |
| LAN（LED） | Network port indicator light, flashes when connected |
| Wi-Fi（LED） | Wi-Fi indicator light, flashes when the Wi-Fi function is turned on |
| SYS（LED） | System Operation Indicator |
| 485（LED） | 485 interface communication indicators, flashes when there is data transmission |
| PWR（LED） | Power indicator light, always on |

Table 2-2

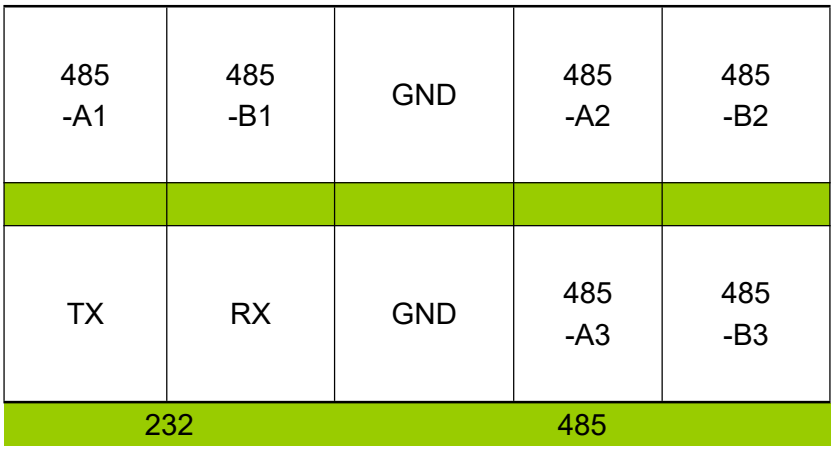
>>>Back View<<<

a) Power input and output part




- Power input: V+, V-, non-polar design, can be connected to positive and negative poles arbitrarily, anti-reverse. The input voltage range is +18V ~ 32V DC, recommend +24V/1A DC power adapter.
- Power output: 2-way VIN output, that is, the output voltage is approximately equal to the VIN input voltage value (the actual voltage is VIN-1.1V); 2-way +12V voltage power output; 1-way +5V voltage power output. The output voltage power supply can directly supply power to external sensors, or to relays for control, or to provide power to 0~5V DI digital signal input devices.
- Relay interface: 2-way relay interface - Close normally closed, COM public node, Open normally open. Small signal relay, support control Max 1A/30V DC; 0.3A/60V DC; 0.5A/125V AC.

b) Power input and output part

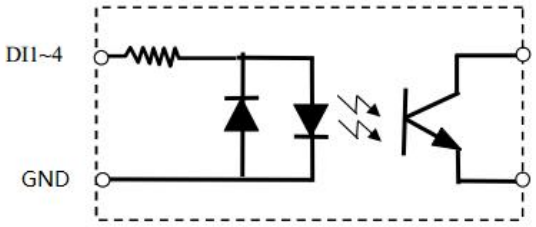


- RS485 interface: supports 3 channels RS485 interface communication, which can be used to directly connect to 485 interface devices, such as sensors or meters. The default baud rate is 9600, and the baud rate range can be configured from 1200 to 57600 through the web page.
- RS232 interface: 1 channel RS232 serial port, the default baud rate is 115200. It is used for local software upgrade or parameter configuration and can also be connected to serial devices for data upload.

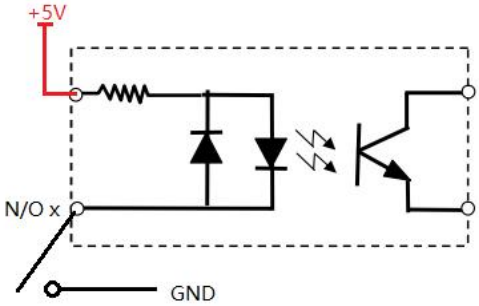
c) Digital signal input

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DI 1 | GND | DI 3 | GND | | N/O 1 | GND | N/O 2 | GND | N/O 3 | GND | N/O 4 | GND | N/O 5 | GND | N/O 6 | GND |
| DI 2 | GND | DI 4 | GND | | N/O 7 | GND | N/O 8 | GND | N/O 9 | GND | N/O 10 | GND | N/O 11 | GND | N/O 12 | GND |
| 0-5V digital signal input | | | | | Digital switch signal access: N/O IN is directly connected to GND or disconnected | | | | | | | | | | | |

- Active digital signal input: 4 channels of active 0~5V digital signal input, the GND of the input signal source and the system GND need to be common ground.




- Passive digital signal input: 12-way passive digital signal input



d) Analog signal input

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AI 1 | AI 3 | AI 5 | AI 7 | AI 9 | AI 11 | A GND | A GND |
| | | | | | | | |
| AI 2 | AI 4 | AI 6 | AI 8 | AI 10 | AI 12 | A GND | A GND |

4-20mA / 0~5V Analog input interface

- 12 channels of analog signal input, the sampling accuracy is 12Bit. It can be connected to 4~20mA power supply type sensor or 0~5V type voltage sensor. The configuration is realized through the programmable window [Note: This step must be operated by a professional!]

## 2.3 Power Supply

RT620 can be used in complex external environments, usually the power supply range is relatively large, in order to better adapt to the complex application environment and improve the stability of the system, the RT620 power interface is compatible with the DC power socket, which is firm in plugging and unplugging, and stable in use . When RT620 exchanges information with the base station, the instantaneous current changes rapidly and the peak current is large, so the requirement for external power supply is high. RT620 supports +18V～+32V DC power supply.

## 2.4 LED status

Connect the power cord and check that it is correct, connect the antenna, put in a valid SIM/UIM card, supply power to the RT620 through the power cord, the PWR indicator on the RT620 is on, and judge the status of the RT620 according to Table 2-3.

| Status | Description | NET Light | PWR Light |
|---|---|---|---|
| Module self-check | Detect SIM card、GPRS/CDMA/WCDMA/EVDO | 100 MS interval on | Always on |
| Stand By | Waiting to wake up or reconnect | Lights up once every 2 seconds | |
| Online | Already online | Lights up for 2 seconds and turns off once | |

| | | | |
|---|---|---|---|
| Good signal | The signal field strength is 21 and above | Green | |
| Poor signal | The signal field strength is 21 and below | Red | |

Table 2-3 RT620 LED status

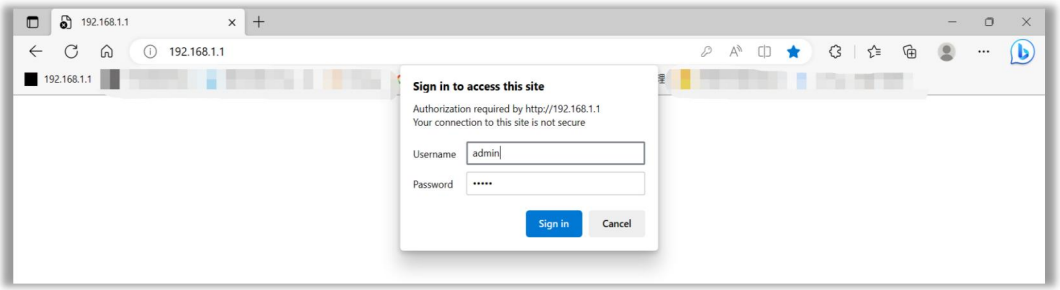
# 3 RTU Configuration

## 3.1 Web configuration environment

The device supports configuration through the local Ethernet interface. The default IP address set for the local Ethernet interface is 192.168.1.1 and the subnet mask is 255.255.255.0. Follow the steps below to build a web configuration environment:

1. Connect the LAN interface of the device and the Ethernet interface of the computer with an Ethernet cable. By default, the computer can obtain an IP address automatically. The IP address of the computer can also be fixed, the format is: 192.168.1.xxx (where xxx represents any number between 2 and 254), and the subnet mask is 255.255.255.0.

2. Open the browser, enter "http://192.168.1.1" in the address bar, and press Enter. In the pop-up login dialog box, enter the login username and password. The default username/password is: **admin/admin** as shown below:




## 3.2 System Status

By checking the system status, you can get "mobile network status" and "mobile network device information". In this way, you can judged whether the network and equipment are normal according to the relevant status. It is also used to analysis and problem solving of abnormal situations.

Log in to the WEB configuration interface, click System Information, the page is shown below:

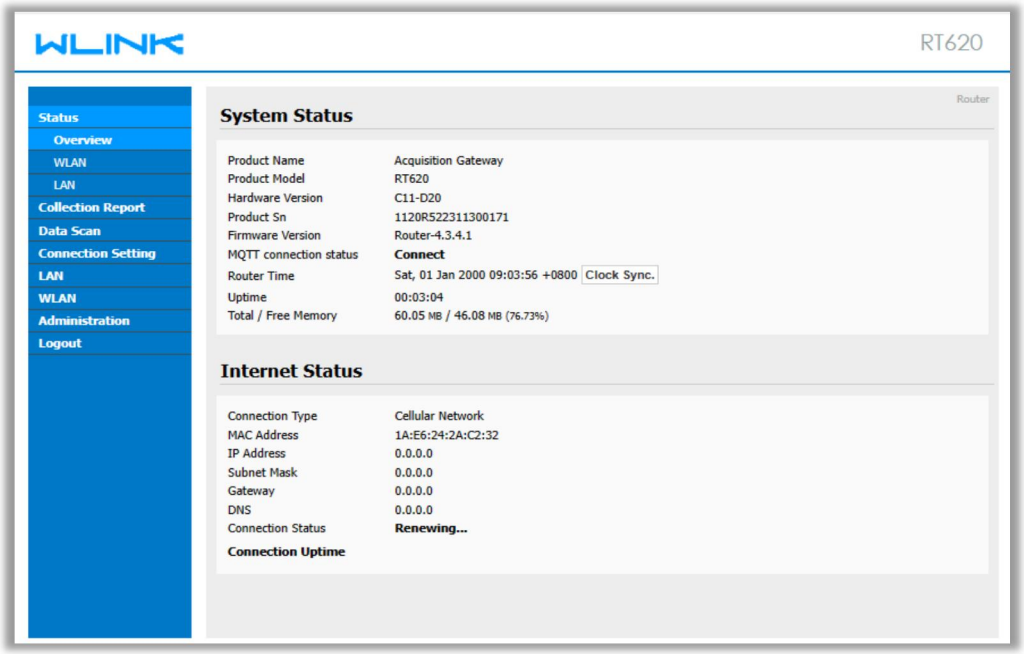


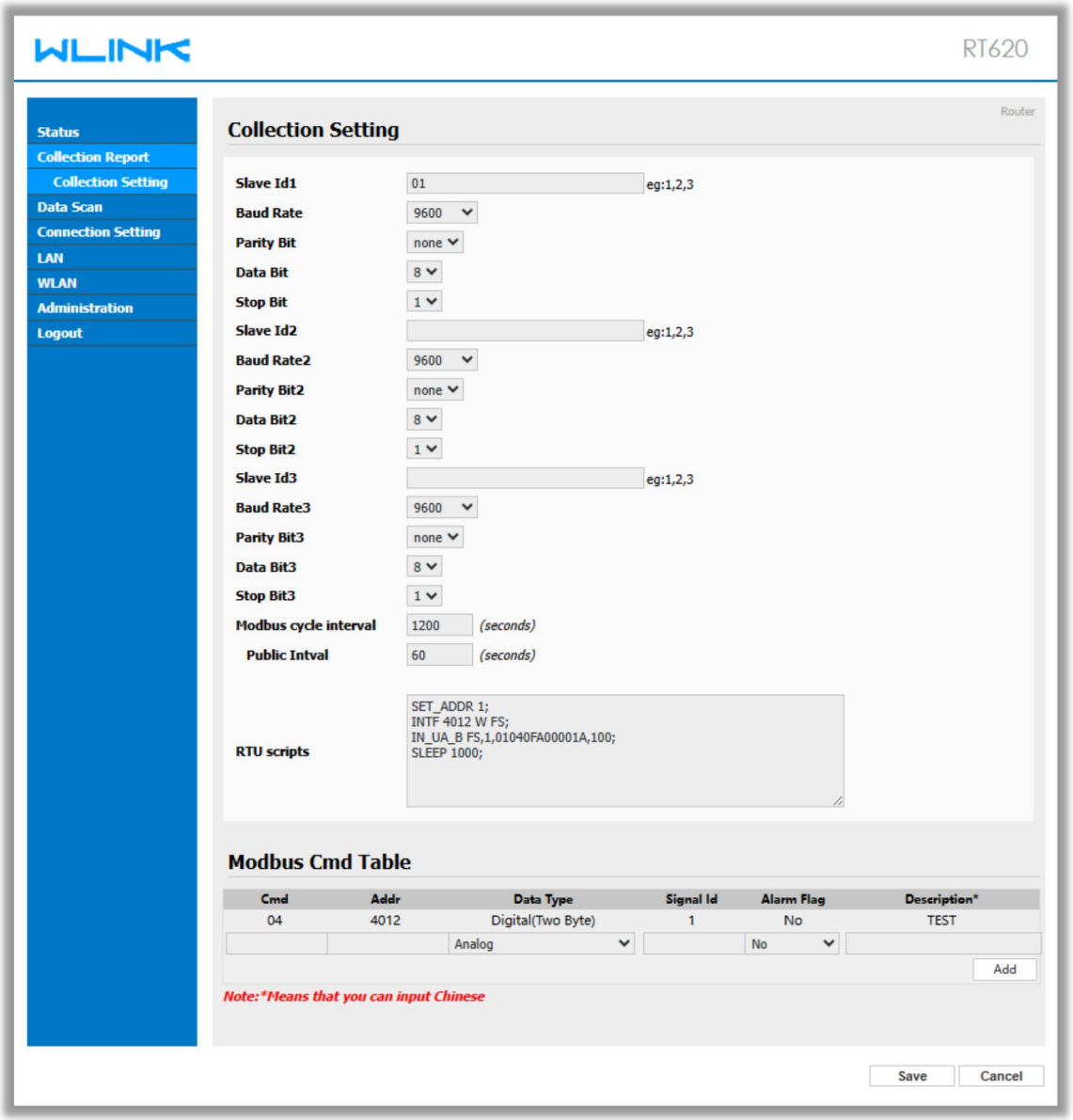

Table 3-1 for the parameter description of overview page:

| Parameter name | Explain |
|---|---|
| Connection Type | Cellular or Wan |
| Firmware version | version of the current program |
| Uptime | Display the online duration of the device after dialing up this time |
| Total/Free Memory | The router's total memory, remaining available memory |
| MAC Address | Physical address of the device |
| IMEI | International Mobile Equipment Identity |
| Modem Status | Check the module connection |
| USIM Status | Check the SIM card connected |
| Signal strength | The signal strength of the wireless network.<br>Value range: 1~31 |
| IP Address | The IP address obtained |
| Subnet mask | Obtained net mask |
| Gateway | Obtained gateway address. |
| Connection Status | Including connected and disconnected states |

Table 3-1

# 3.3 Collection and Reporting

Log in to the WEB configuration interface, click the collection function, the page is shown as below:




"Collection setting" parameters are described in the following table 3-2:

| Parameter | |
|---|---|

| Parameter | |
|---|---|
| Slave Id 1/2/3 | This configuration item mainly configures the addresses of the connected Modbus slave devices on the three 485 interfaces 1, 2, and 3. Note: The slave addresses connected to each 485 interfaces cannot be repeated. |
| baud rate/baud rate2/baud rate3 | Configure the baud rate of three 485 interfaces |
| Parity Bit/Parity Bit2/Parity Bit3 | Configure the parity bit of three 485 interfaces |
| Data Bit/ Data Bit 2/ Data Bit 3 | Configure the data bit of three 485 interfaces |
| Stop Bit/ Stop Bit 2/ Stop Bit 3 | Configure the stop bit of three 485 interfaces |
| Modbus cycle interval | The time interval for the master to execute RTU scripts to obtain data. |
| RTU Scripts | Different scripts need to be written according to different sensors to obtain sensor data. |
| Modbus Cmd Table | Device obtain data processed by RTU script, using Modbus protocol.<br>**Cmd:** standard Modbus command, temporarily supports 02 and 04 commands;<br>**Addr:** register address;<br>**Data type:** the data type of returned value;<br>**Signal ID:** the number of the read data;<br>**Alarm flag:** enable or not;<br>**Description:** describe the relevant characteristics of the acquired data. |

Table 3-2

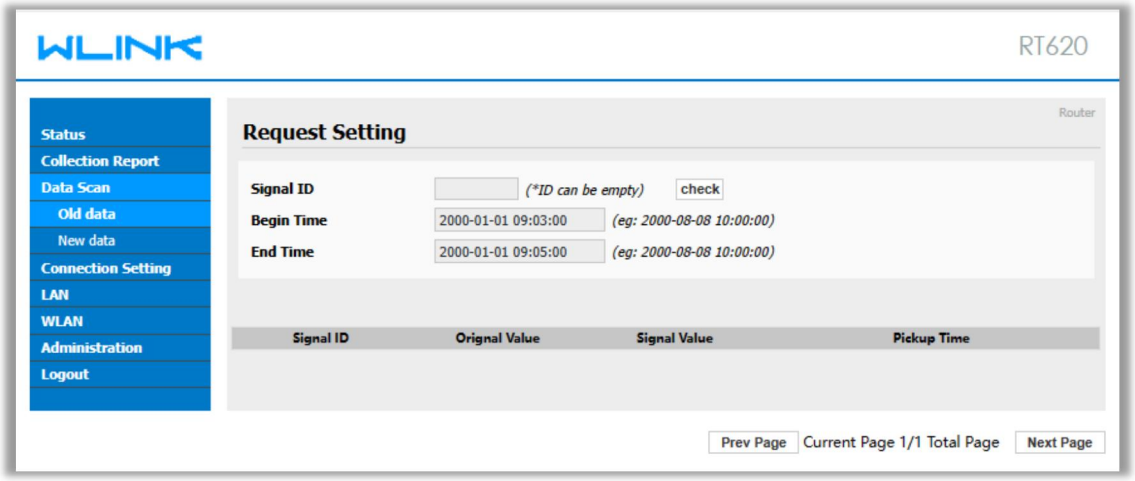
After the configuration is complete, click the "Save" button. After the configuration is saved, the device will automatically restart to make the corresponding configuration take effect.

**Please contact WLINK sales/FAE for script writing and config support.**

# 3.4 Data Scan

## 3.4.1 Old data

This is the history data recorded. Log in to the WEB configuration interface, click Data Scan, the page is shown below:




"Old data Parameters" configuration parameters are described in Table 3-3 below:

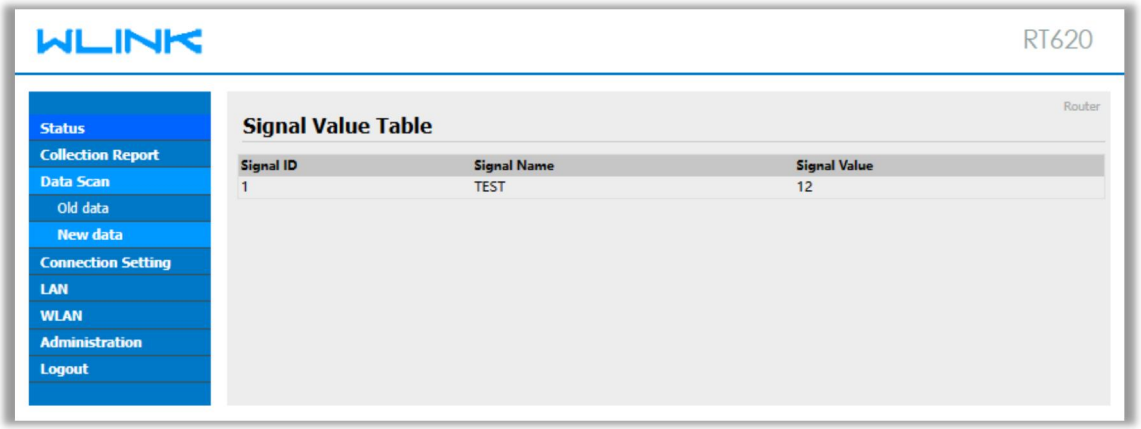
| Parameters | |
|---|---|
| Signal ID | Signal ID to be queried |
| Begin Time | Data storage time |
| End Time | Data storage time |

Table 3-3

After the configuration is complete, click the "Check" button, and the corresponding information will be queried from the stored information and displayed.

## 3.4.2 New Data

The latest data. Log in to the WEB configuration interface, click Data Scan, the page is shown below:

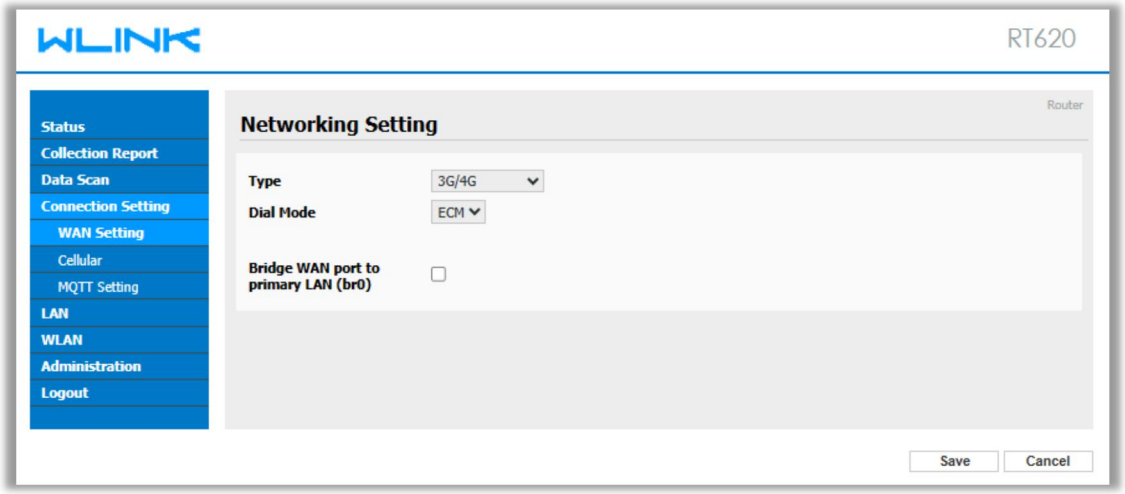



According to the signal information list setting, the latest sensor data information will be displayed here.

# 3.5 Connection Settings

## 3.5.1 Networking Setting

According to the networking situation of the field application, select the Internet connection type provided by your ISP from the drop-down menu. The WAN connection type includes the following methods: DHCP, PPPoE, static address and 3G/4G. As shown in P 3-7:




Configure the WAN port connection type, parameter settings Table 3-4:

| Parameter Name | Description | Configuration mode |
|---|---|---|
| Type | WAN connection type | Select from the drop-down box, including:<br>**3G/4G**: default 4G/3G network<br>**Static address:** Manually configure the interface IP. If you need to access the Internet through WAN, you need to add gateway, DNS, default route and other configurations in the network connection type.<br>**DHCP:** DHCP client automatically obtains IP. If you need to access the Internet through WAN, you need to add the default routing configuration in the network connection type.<br>**PPPoE**: PPPoE dial-up to obtain IP (usually an external ADSL modem for ADSL dial-up Internet access), if you need to access the Internet through WAN, you need to add the default routing configuration in the network type. |
| IP: Displayed when " Type" is selected as "Static address" | | |
| IP | It needs to be configured when "Connection Type" | It needs to be configured when "Connection Type" is selected as "Static IP". |

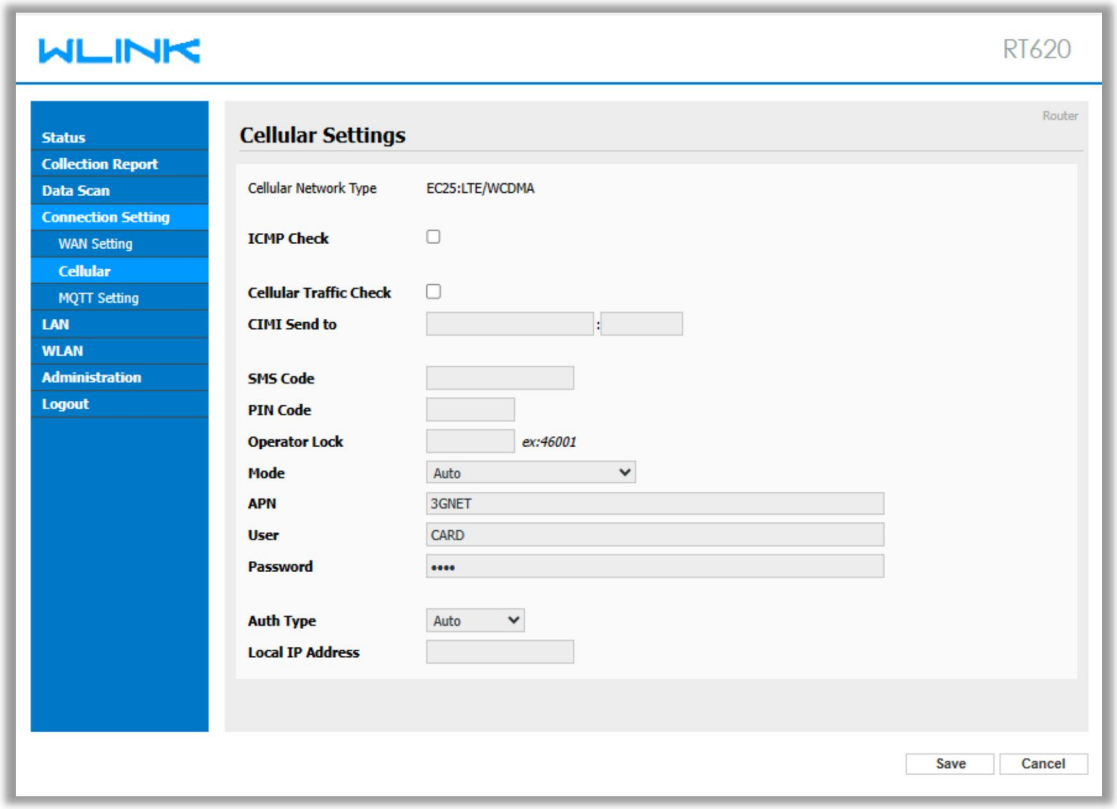
| | | |
|---|---|---|
| | is selected as "Static IP". | |
| Basic settings: Displayed when "Type" is selected as "PPPoE" | | |
| Interface name | The unique identification name of the interface is used for other function calls or when associated with this interface, such as configuring the routing of the interface, controlling the disabling and enabling of the rule interface. | PPPoE non-configurable items.<br>The PPPoE interface name configured on the webpage is specified by the system.<br>Its interface name is: pppoe |
| Service name | Configuring the PPPoE service name is usually used for identification and judgment between the client and the server, usually provided by the server, and provided by the ISP for ADSL dial-up. | General WORD type, maximum 64 bytes, cannot be empty |
| Username<br>Password | The username/password used for PPPoE dial-up is usually provided by the server, and it is provided by the ISP for ADSL dial-up. | General WORD type/CODE type, each with a maximum length of 64 bytes, none of which is empty |
| Bridge WAN port to Primary LAN(br0) | WAN port used as LAN when selected. | |

**Table 3-4**

After the configuration is complete, click the "Save" button to make the configuration take effect.

## 3.5.2 Cellular Setting

You can modify relevant parameter according to the application




| parameter | |
|---|---|
| ICMP check | If enable ICMP check and setup a reachable IP address as destination IP, the router will reconnect/reboot once ICMP check failed. |
| Cellular Traffic Check | The router will reconnect/reboot once there's no Rx/Tx data. |
| CIMI Send to | Send CIMI to a defined IP and port by TCP protocol. |
| SMS Code | Remote control the router by SMS. Only the configured SMS code will work. |
| Pin Code | Some SIM cards are locked with a Personal Identification Number (PIN) code in case they are lost or stolen |
| Operator Lock | Lock a specified operator for the router by MCC/MNC code. |
| Mode | Auto】 The router will automatically connect to 3G/4G networks and give priority to 4G.<br>【LTE】 Router will connect to 4G only.<br>【3G】 Router will connect to 3G only. |
| APN | APN is provided by local ISP, usually CDMA/EVDO networks do not need this parameter. |
| User | SIM card user name is provided by ISP |
| Password | SIM card password is provided by ISP |
| Auth. Type | Auto/PAP/Chap/MS-Chap/MS-Chapv2 authentication optional. |
| Local IP Address | Fix SIM IP. The feature is available if carrier can provide this service. |

Table 3-5

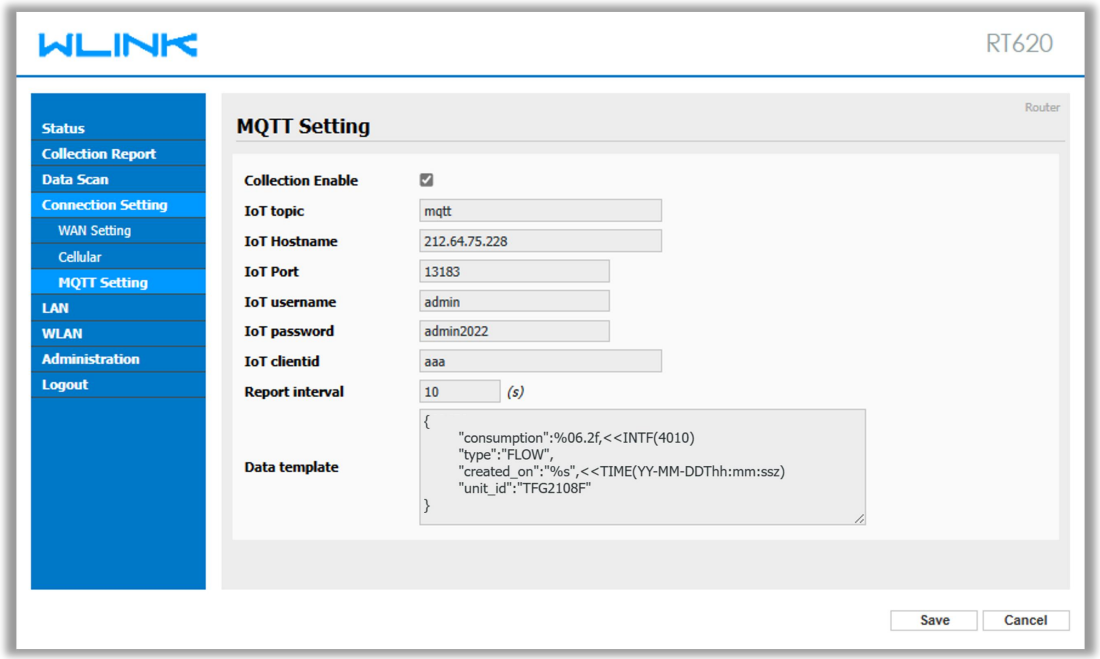

NOTE ICMP Check and Cellular Traffic Check are alternative.

【ICMP Check】
Enable ICMP, Router will automatically check whether the defined IP address is reachable per 60s. If the IP address is unreachable and ICMP check is timeout at the first time, it will check 2 times every 3 seconds. If the third time is still failed, the router will redial.
The ICMP Check IP is a public IP or company server IP address.

【Cellular Traffic Check】
【Check Mode】 there are Rx(Receive), Tx(Transmission) and Rx/Tx check modes.
【Rx】Router will check the 3G/LTE cellular receiver traffic. If no receiver traffic within the defined check interval, the router will implement the specified action reconnect or reboot.

## 3.5.3 MQTT Setting

You can config MQTT Server info and Data Template here:



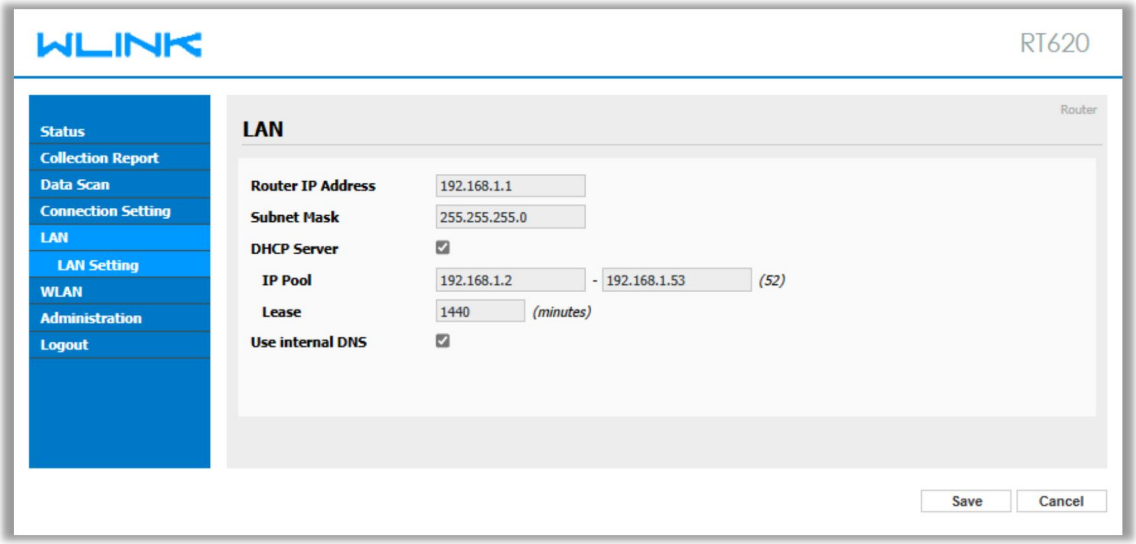

| parameter | |
|---|---|
| Collection Enable | Enable to start reporting to MQTT server. |
| IoT topic | Topic of MQTT Server. |
| IoT Hostname | ip or domain name of MQTT Server |
| IoT Port | Port of MQTT service |
| IoT username | Username of MQTT service |
| IoT password | Password of MQTT service |
| IoT Client Id | ClientID assigned by MQTT service |
| Report Interval | The interval between each report |
| Data template | Customize the data packet format for reporting. Device replace the variables with terms from RTU script.<br><br>The key terms are as follows:<br>o TIME (X) --- where X time format used in report.<br>o INTF(X) --- where X represents a custom register value configured in Modbus CMD table in 3.3.1;<br><br>You can consult WLINK sales/FAE for support. |

Table 3-6

## 3.6 LAN

By viewing the "LAN status" information of RT620, you can know the basic information of the system "LAN status". The specific operation method is as follows:

Select "Basic Configuration > LAN" in the navigation bar, and in the opened page, you can modify the parameters related to configuring the LAN, as shown below:




"LAN" configuration parameters are described in Table 3-9:

| parameter | |
|---|---|
| Router IP Address | The IP address of the router, the default IP is 192.168.1.1 |
| Subnet mask | The mask address of the router, the default mask is 255.255.255.0 |
| DHCP | Dynamically assign IP services. After the DHCP service is selected, the IP address range and lease options will appear below. |
| IP Pool | The range of IP addresses in the LAN |
| Lease | Valid time of IP automatically assigned by DHCP |

Table 3-7

After the configuration is complete, click the "Save" button. After the configuration is saved, the device will automatically restart to make the corresponding configuration take effect.

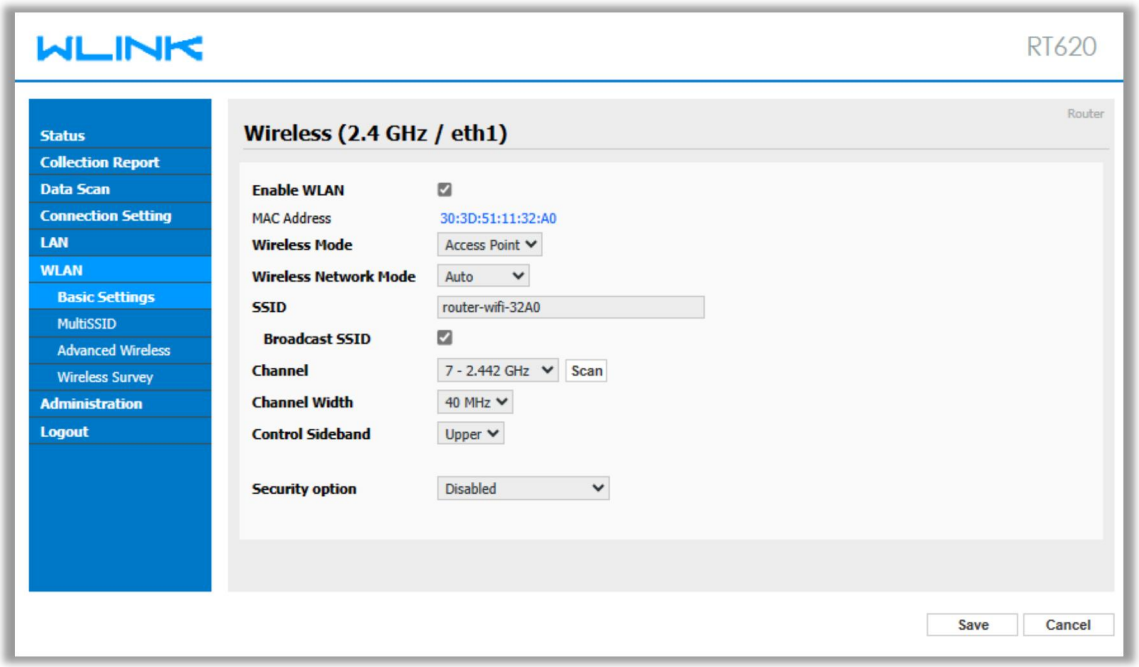
## 3.7 WLAN Configuration (WIFI)

For RTU series products that support Wi-Fi, you can modify and configure WLAN properties through the Web. The following is an introduction to the common configuration parts of the Wi-Fi part.

## 3.7.1 Basic Settings

Choose WLAN Configuration > Basic Settings from the navigation bar. In the opened page, you can modify and configure the basic parameters of Wi-Fi.

The factory default setting of the Wi-Fi password is blank, and the user can set or not set the Wi-Fi password according to their own needs. The way to set the Wi-Fi password is: the last item [Security Options] in [Basic Parameter Settings], select the required encryption method from the drop-down list, and fill in the custom Wi-Fi password, save it.



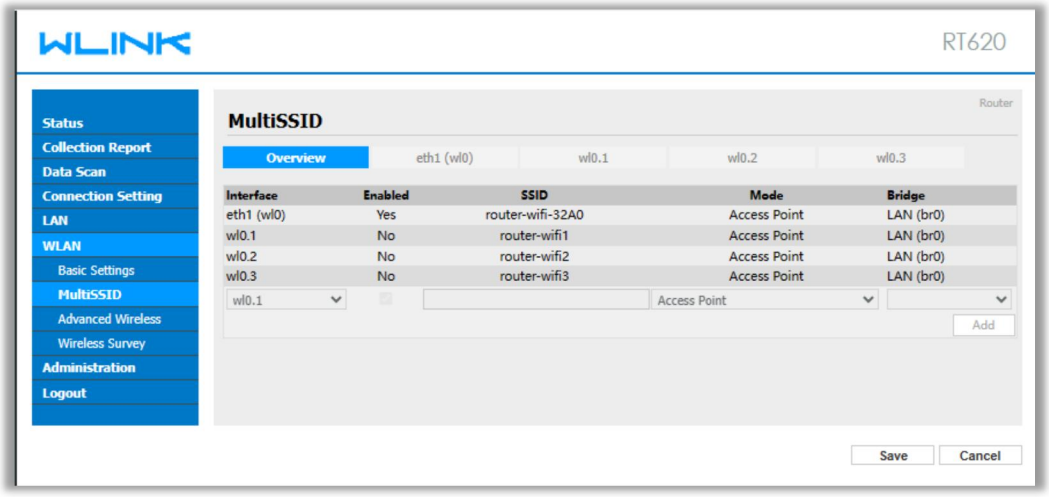

"Basic settings" configuration parameter description.

| Parameter | | Configuration mode |
|---|---|---|
| Enable WLAN | Turn on wireless mode. After this item is enabled, the relevant Wi-Fi parameters can be set. | Button selection<br>Enable<br>Disabled |

| Parameter | | Configuration mode |
|---|---|---|
| Wireless mode | Select the networking mode of the wireless network | AP working mode is supported by default, and AP+WDS, client, bridge, and pure WDS modes are also supported。 |
| Wireless Network Mode | The router supports multiple protocols such as 11b/g/n. | 802.11b only; 802.11g only; B/G mixed |
| SSID | The ID of the wireless network service set, which is Router by default. | General WORD type, up to 32 bytes, please refer to "Parameter Specification Table" for input specifications. |
| Channel | The channel used by the wireless network | It is recommended to use the default value. |
| Channel Width | The channel width used by the wireless network | Support 20MHz and 40MHz |
| Security Options | Configure the WLAN encryption mode, which can be disabled when encryption authentication is not required. WEP encryption is relatively easy to be cracked, it is recommended to use WPA encryption. | Drop-down box options:<br>WEP; WPA; WPA2 |

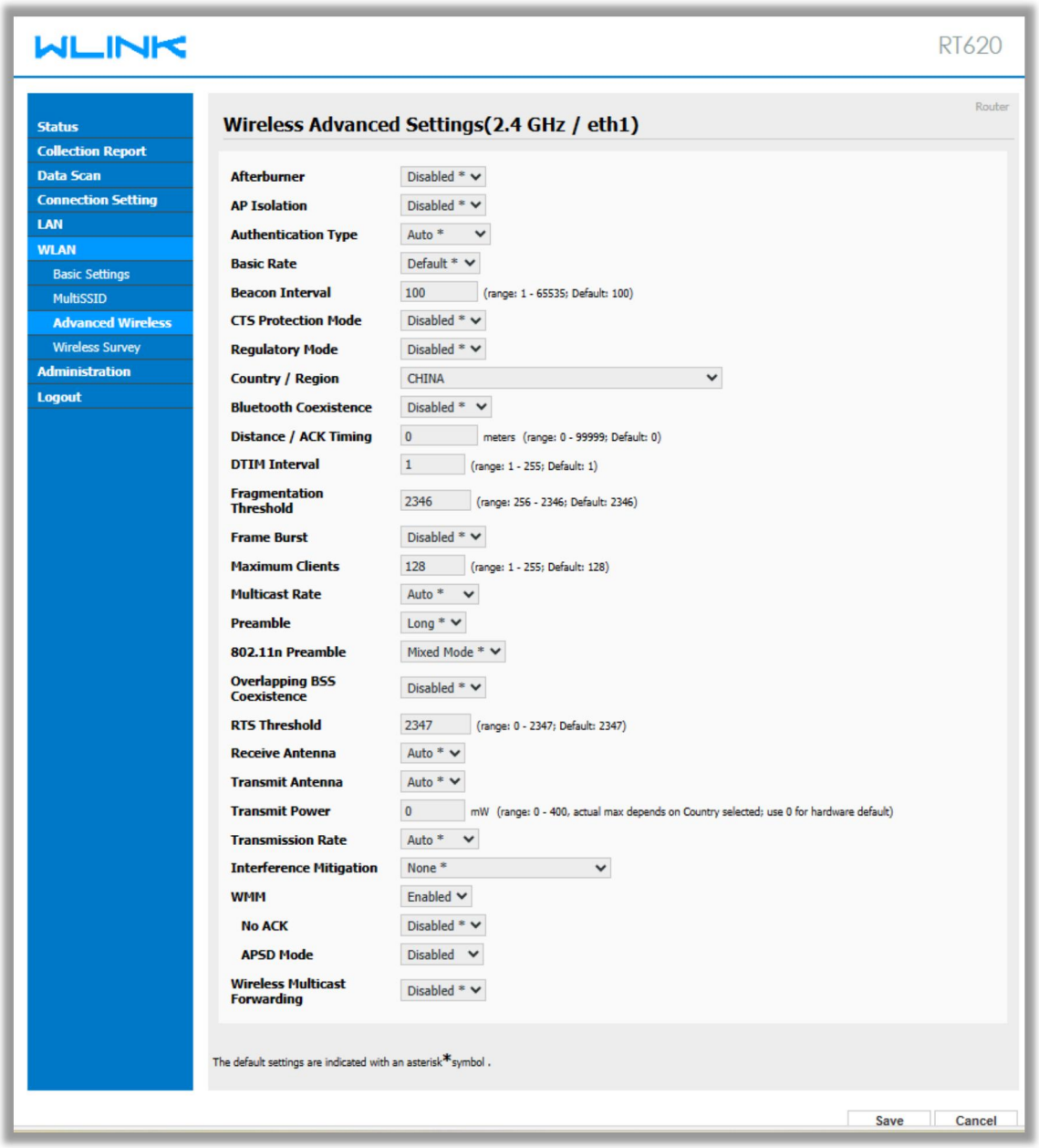
Table 3-8

If need multi SSID servie, you could add it at “MultiSSID” page:




## 3.7.2 Advanced Wireless

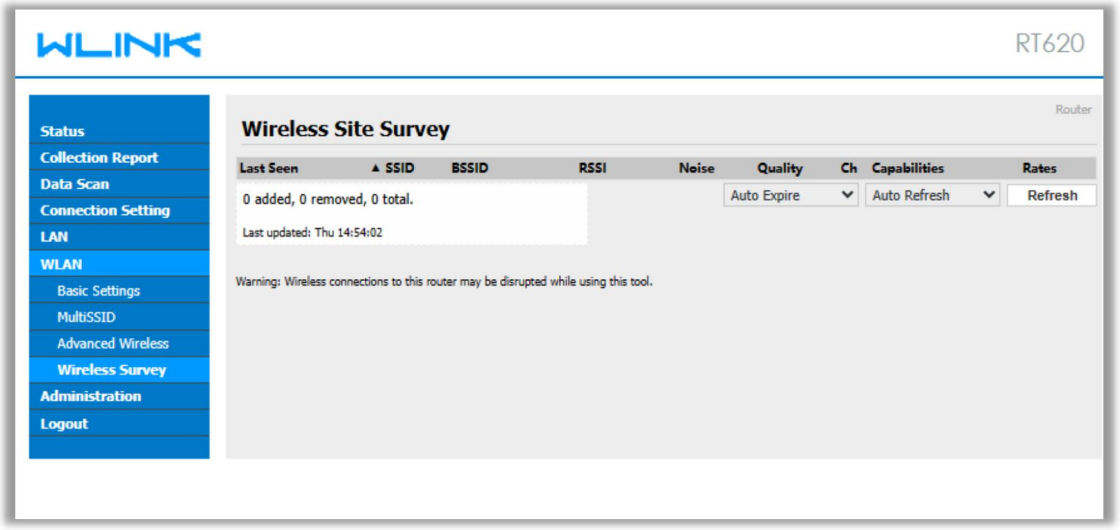
Choose WLAN Configuration > Advanced Wireless from the navigation bar. In the opened page, you can modify the relevant parameters of the wireless advanced parameter function.




After the configuration is complete, click the "Save " button, and the configuration will take effect.

## 3.7.3 Wireless Survey

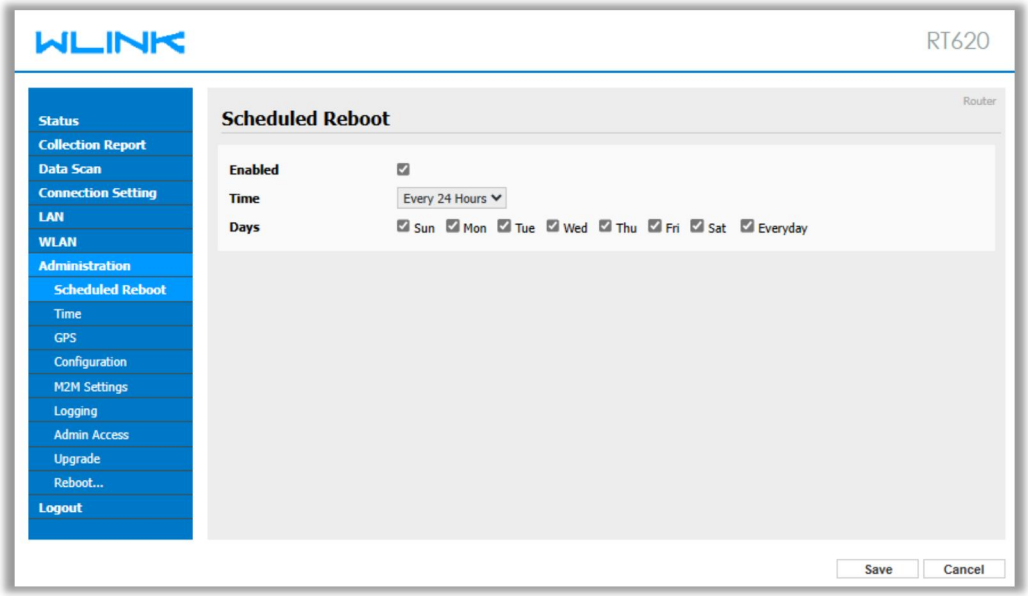
Select "WLAN Configuration > Wireless Survey" in the navigation bar. In the opened page, you can search for related parameters of nearby wireless networks.




# 3.8 Administration

## 3.8.1 Scheduled Reboot

Choose Administration > Scheduled Restart from the navigation tree. In the opened page, you can modify the relevant parameters of the scheduled restart function.

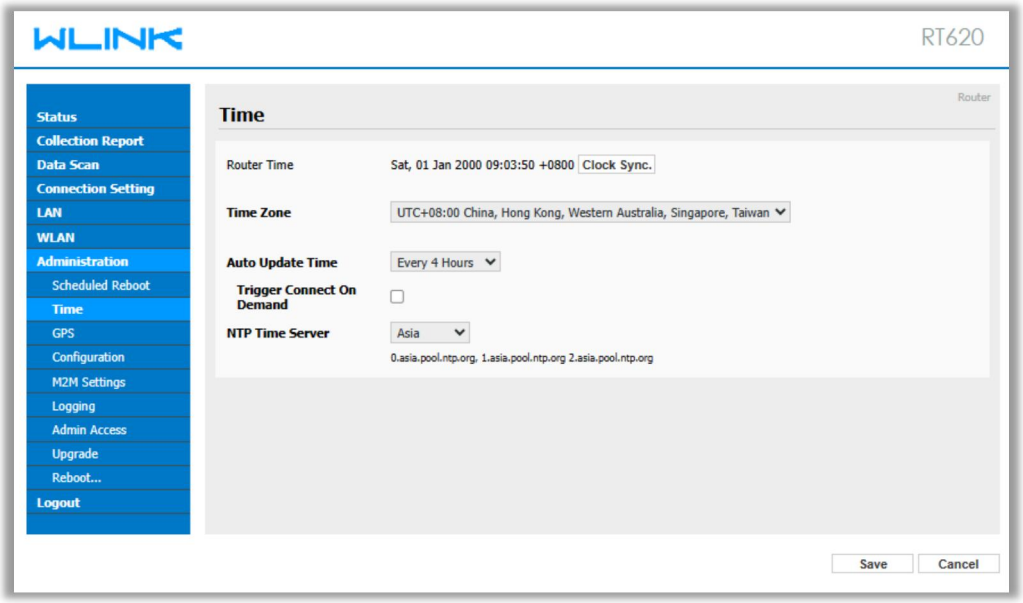



After the configuration is complete, click the "Save " button, and the configuration will take effect.

## 3.8.2 Time

The RT620 supports NTP (Network Time Protocol) network protocol for time synchronization. Performing NTP network time synchronization can ensure that the system time of the router corresponds to the actual time and can ensure that functions such as task management are executed at the correct time. Specific steps are as follows.

Step 1: Select "Administration > Time".




Step 2: Parameter configuration instructions:

| Parameter Name | | |
|---|---|---|
| Time Zone | Time synchronization type for system time verification. | drop-down list box selection. |
| Auto Update Time | Set the time for automatic synchronization | drop-down list box selection. |
| Trigger Connect On Demand | Synchronize time only when needed | Enable or Disable |
| NTP Time Server | NTP clock server | Choose Default or Region |

Table 3-9

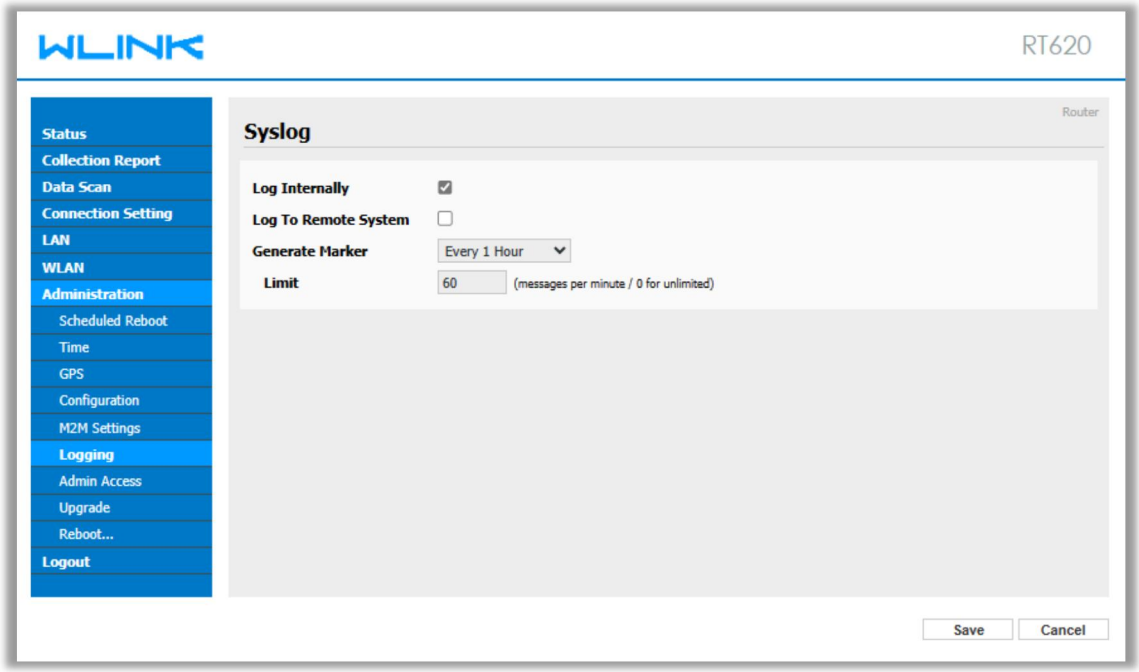
Step 3: Click "Save" to complete the system log parameter configuration.

If you can access the Internet but fail to update the time, please try to select another NTP time server.

## 3.8.3 Log

Local log refers to directly viewing information such as system operation and operation configuration on the RT620 management interface. Through this information, it is possible to find abnormal conditions of the system, accurately locate problems and take effective preventive or remedial measures.

Select Administration > Log, as shown below:




In this log configuration interface, you can choose the save path (local or remote server), and the log generation time.

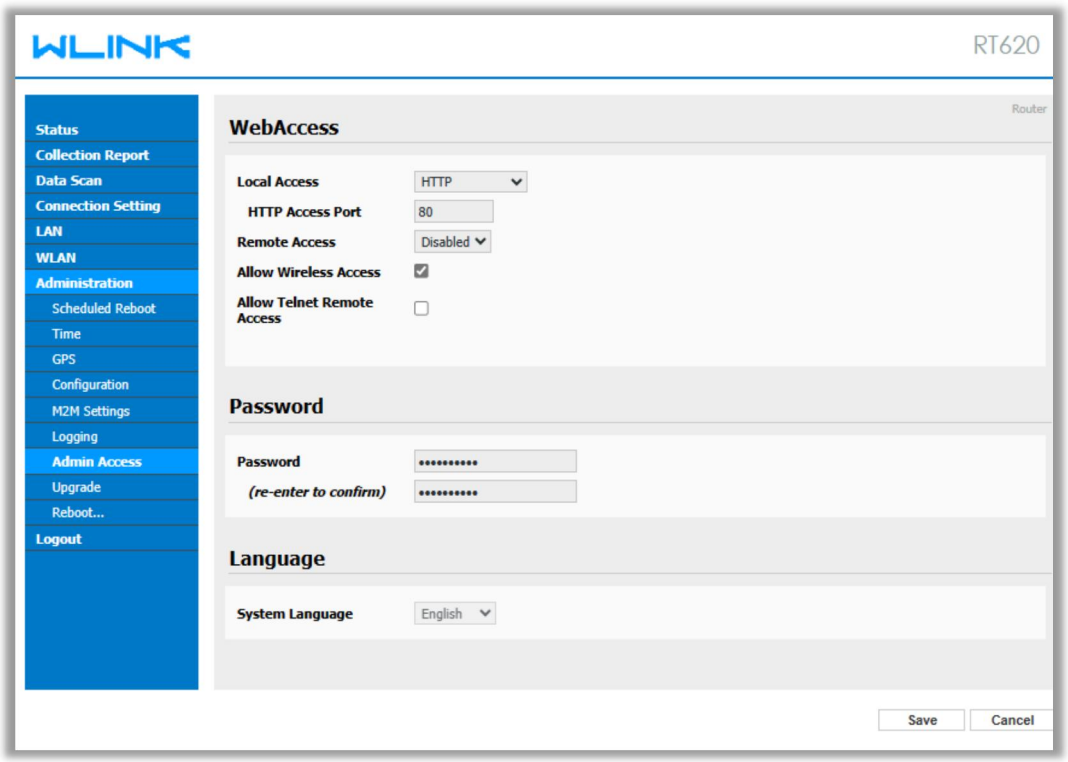
After the configuration is complete, click the "Save" button to make the configuration take effect.

## 3.8.4 Admin Access

Choose Administration > Admin Access. In the opened page, you can modify the relevant parameters of Admin Access.

On this page, you can configure some basic web access setting items, which is convenient for users. The password setting option is to modify the password of the system account “admin”.

**Remote access**: Enable remote access, open the corresponding port, and save it.

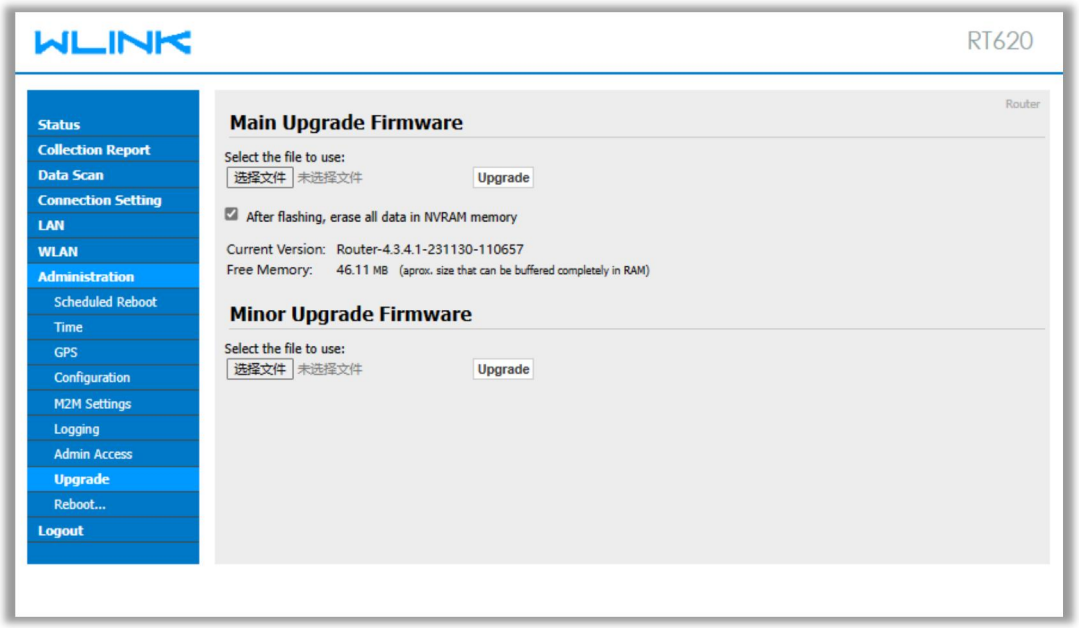



After the configuration is complete, click the "Save " button.

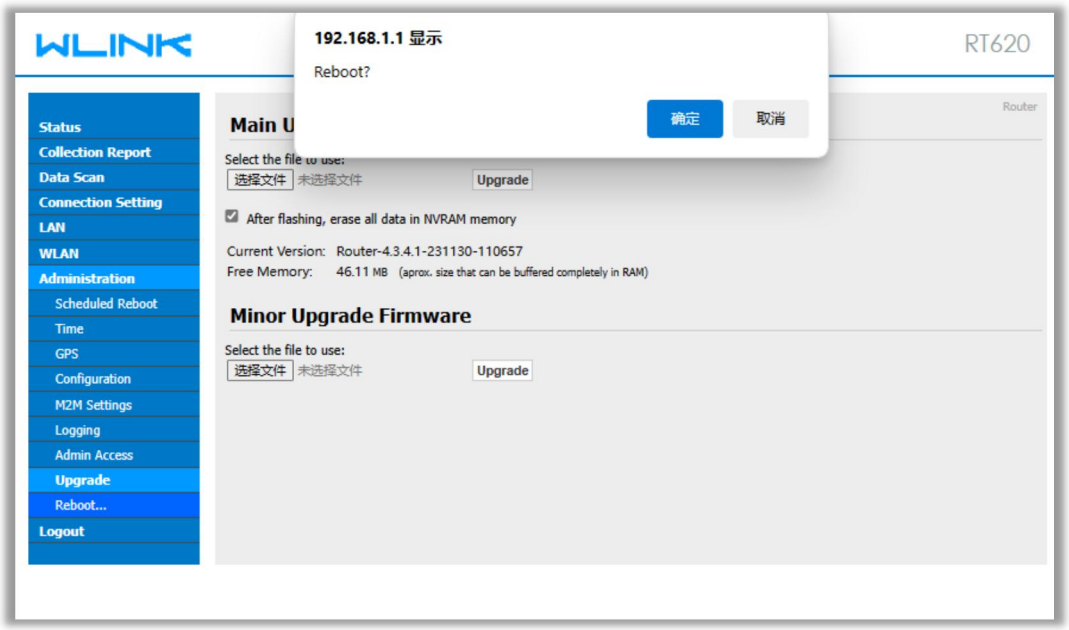
## 3.8.5 Upgrade

RT620 supports local network mode to upgrade system files. Before upgrading, please make sure that you have obtained the updated firmware.

Select Administration > Upgrade. From Main Upgrade Firmware , Select the new upgrade file, check “After flashing, erase all data in NVRAM meory”, click [Upgrade], do not cut off the power or network cable during the upgrade process, the upgrade can be completed in about 2 minutes, please wait patiently, and ping the address of the router on the PC (for example : ping 192.168.1.1 -t), if the ping is successful, it means the upgrade is successful.




## 3.8.6 Reboot




Choose Administration > Reboot. The system will pop up the "Reboot?". If you do not want to restart, you can select "cancel".

If you select "OK", the system will restart, and the saved change or upgrade will take effect after restarting.