

DR8072 USER MANUAL

- 1.IPQ8072 UI settings
- 2.DR8072 UART configuration

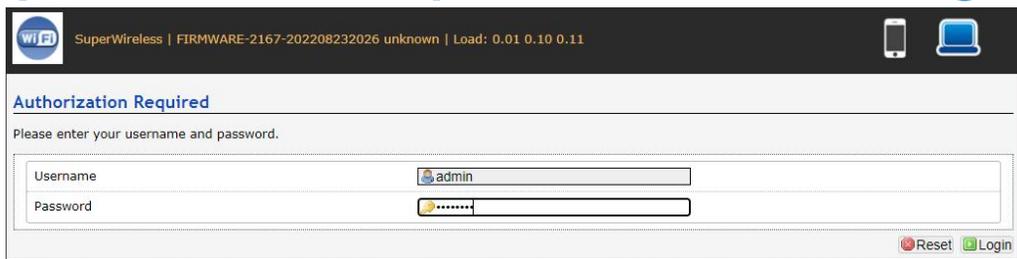
DR8072



IPQ8072 UI setting

1. Input the IP 192.168.1.1 and login

2. Input the username “admin” password “password” then press the button “Login”



SuperWireless | FIRMWARE:2167-202208232026 unknown | Load: 0.01 0.10 0.11

Authorization Required

Please enter your username and password.

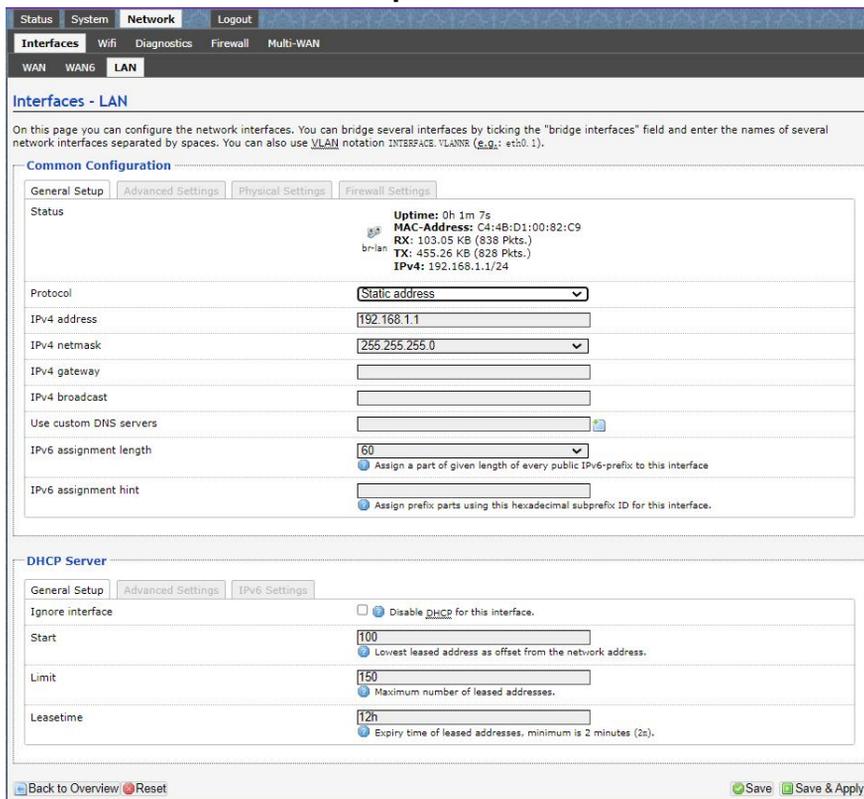
Username:

Password:

[Reset](#) [Login](#)

3. Network setting

- IP Setting: setting IP in the path "network->Interfaces->LAN->IPV4 address"
- DHCP setting:DHCP and other protocol setting in the path network-> Interfaces-> LAN->protocol”



Status System **Network** Logout

Interfaces Wifi Diagnostics Firewall Multi-WAN

WAN WANG **LAN**

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.VLANID (e.g.: eth0.1).

Common Configuration

General Setup **Advanced Settings** Physical Settings Firewall Settings

Status **Uptime:** 0h 1m 7s
MAC-Address: C4:4B:D1:00:82:C9
 RX: 103.05 KB (838 Pkts.)
 TX: 455.26 KB (828 Pkts.)
IPv4: 192.168.1.1/24

Protocol: **Static address**

IPv4 address: **192.168.1.1**

IPv4 netmask: **255.255.255.0**

IPv4 gateway:

IPv4 broadcast:

Use custom DNS servers:

IPv6 assignment length: **60**
 Assign a part of given length of every public IPv6-prefix to this interface

IPv6 assignment hint:
 Assign prefix parts using this hexadecimal subprefix ID for this interface.

DHCP Server

General Setup **Advanced Settings** IPv6 Settings

Ignore interface: **Disable DHCP** for this interface.

Start: **100**
 Lowest leased address as offset from the network address.

Limit: **150**
 Maximum number of leased addresses.

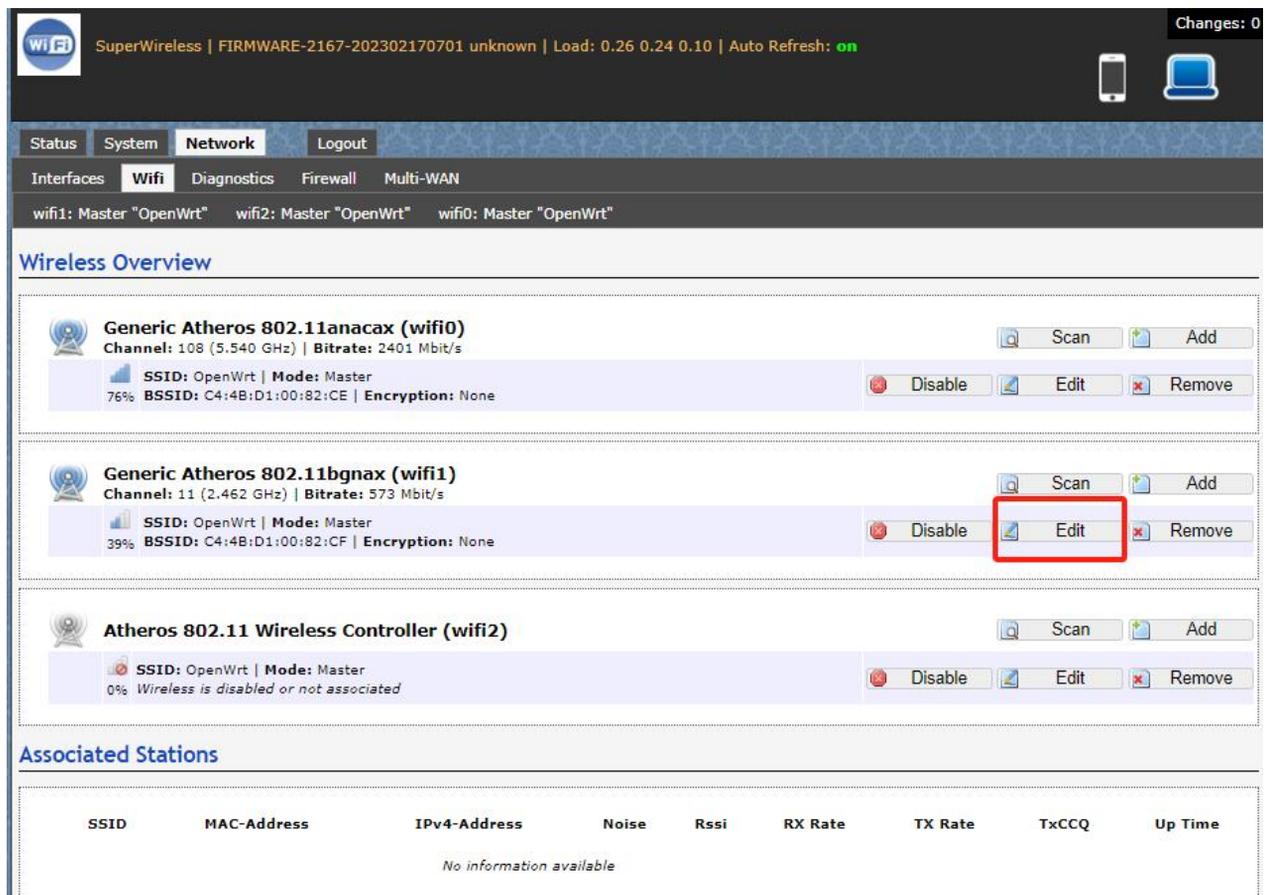
Leasetime: **12h**
 Expiry time of leased addresses, minimum is 2 minutes (2s).

[Back to Overview](#) [Reset](#) [Save](#) [Save & Apply](#)

IPQ8072 UI setting

4. Wireless setting

Login the path network->Interfaces->WIFI,
Then choose wifi 1,we select the red marked as example,click
the button “ Edit ”



The screenshot displays the Wallys web interface for network configuration. At the top, there's a navigation bar with 'Status', 'System', 'Network', and 'Logout'. Below this, the 'Network' section is active, showing 'Interfaces' and 'Wifi'. The 'Wifi' tab is selected, displaying a 'Wireless Overview' section. This section lists three wireless interfaces:

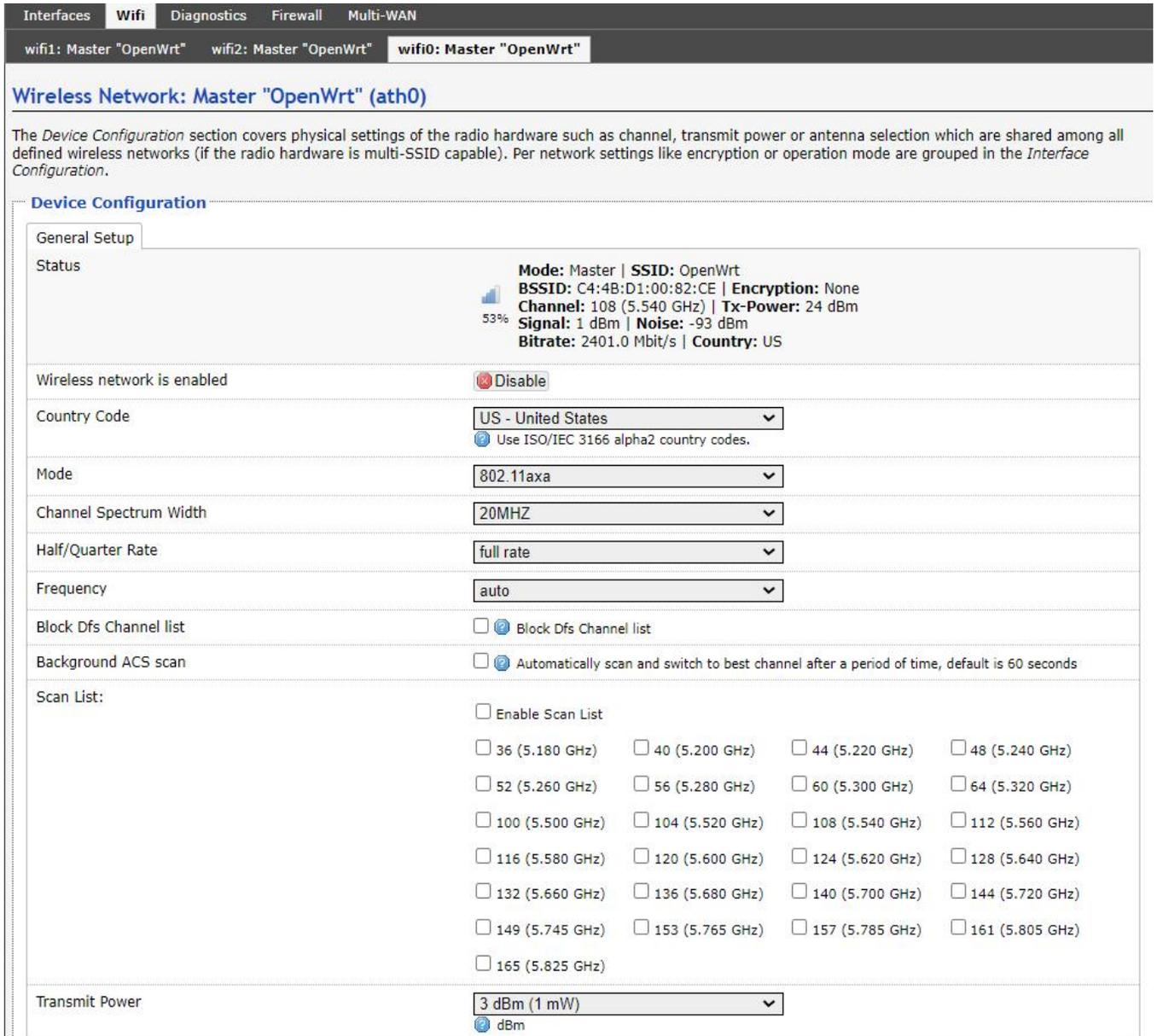
- Generic Atheros 802.11anacax (wifi0)**: Channel: 108 (5.540 GHz) | Bitrate: 2401 Mbit/s. SSID: OpenWrt | Mode: Master. BSSID: C4:4B:D1:00:82:CE | Encryption: None. 76% signal strength. Buttons: Scan, Add, Disable, Edit, Remove.
- Generic Atheros 802.11bgnax (wifi1)**: Channel: 11 (2.462 GHz) | Bitrate: 573 Mbit/s. SSID: OpenWrt | Mode: Master. BSSID: C4:4B:D1:00:82:CF | Encryption: None. 39% signal strength. Buttons: Scan, Add, Disable, **Edit** (highlighted with a red box), Remove.
- Atheros 802.11 Wireless Controller (wifi2)**: SSID: OpenWrt | Mode: Master. 0% signal strength. Note: Wireless is disabled or not associated. Buttons: Scan, Add, Disable, Edit, Remove.

Below the wireless overview is an 'Associated Stations' section, which is currently empty, showing a table with columns for SSID, MAC-Address, IPv4-Address, Noise, Rssi, RX Rate, TX Rate, TxCCQ, and Up Time. The text 'No information available' is displayed below the table.

IPQ8072 UI setting

The detail information show in the picture as below:

- Channel:for channel select;
 - Transmit Power:signal chain power setting; ESSID:for ID
 - Mode:it support 4 mode AP,AP(WDS),client,client(WDS)
- ### Wireless
- Security: for Encryption setting



The screenshot displays the configuration page for the wireless network 'wifi0: Master "OpenWrt" (ath0)'. The 'Device Configuration' section is active, showing various settings for the radio hardware.

General Setup

Status

53% **Mode:** Master | **SSID:** OpenWrt
BSSID: C4:4B:D1:00:82:CE | **Encryption:** None
Channel: 108 (5.540 GHz) | **Tx-Power:** 24 dBm
Signal: 1 dBm | **Noise:** -93 dBm
Bitrate: 2401.0 Mbit/s | **Country:** US

Wireless network is enabled Disable

Country Code: US - United States (Use ISO/IEC 3166 alpha2 country codes.)

Mode: 802.11axa

Channel Spectrum Width: 20MHZ

Half/Quarter Rate: full rate

Frequency: auto

Block Dfs Channel list: Block Dfs Channel list

Background ACS scan: Automatically scan and switch to best channel after a period of time, default is 60 seconds

Scan List:

Enable Scan List

36 (5.180 GHz) 40 (5.200 GHz) 44 (5.220 GHz) 48 (5.240 GHz)
 52 (5.260 GHz) 56 (5.280 GHz) 60 (5.300 GHz) 64 (5.320 GHz)
 100 (5.500 GHz) 104 (5.520 GHz) 108 (5.540 GHz) 112 (5.560 GHz)
 116 (5.580 GHz) 120 (5.600 GHz) 124 (5.620 GHz) 128 (5.640 GHz)
 132 (5.660 GHz) 136 (5.680 GHz) 140 (5.700 GHz) 144 (5.720 GHz)
 149 (5.745 GHz) 153 (5.765 GHz) 157 (5.785 GHz) 161 (5.805 GHz)
 165 (5.825 GHz)

Transmit Power: 3 dBm (1 mW) dBm

IPQ8072 UI setting

In advance setting you can select which chain do you need, which BW do you need and so on

Interface Configuration

General Setup | Wireless Security | MAC-Filter | **Advanced Settings**

ESSID	OpenWrt
Mode	Access Point
Guard Interval	Short
Hide ESSID	<input type="checkbox"/>

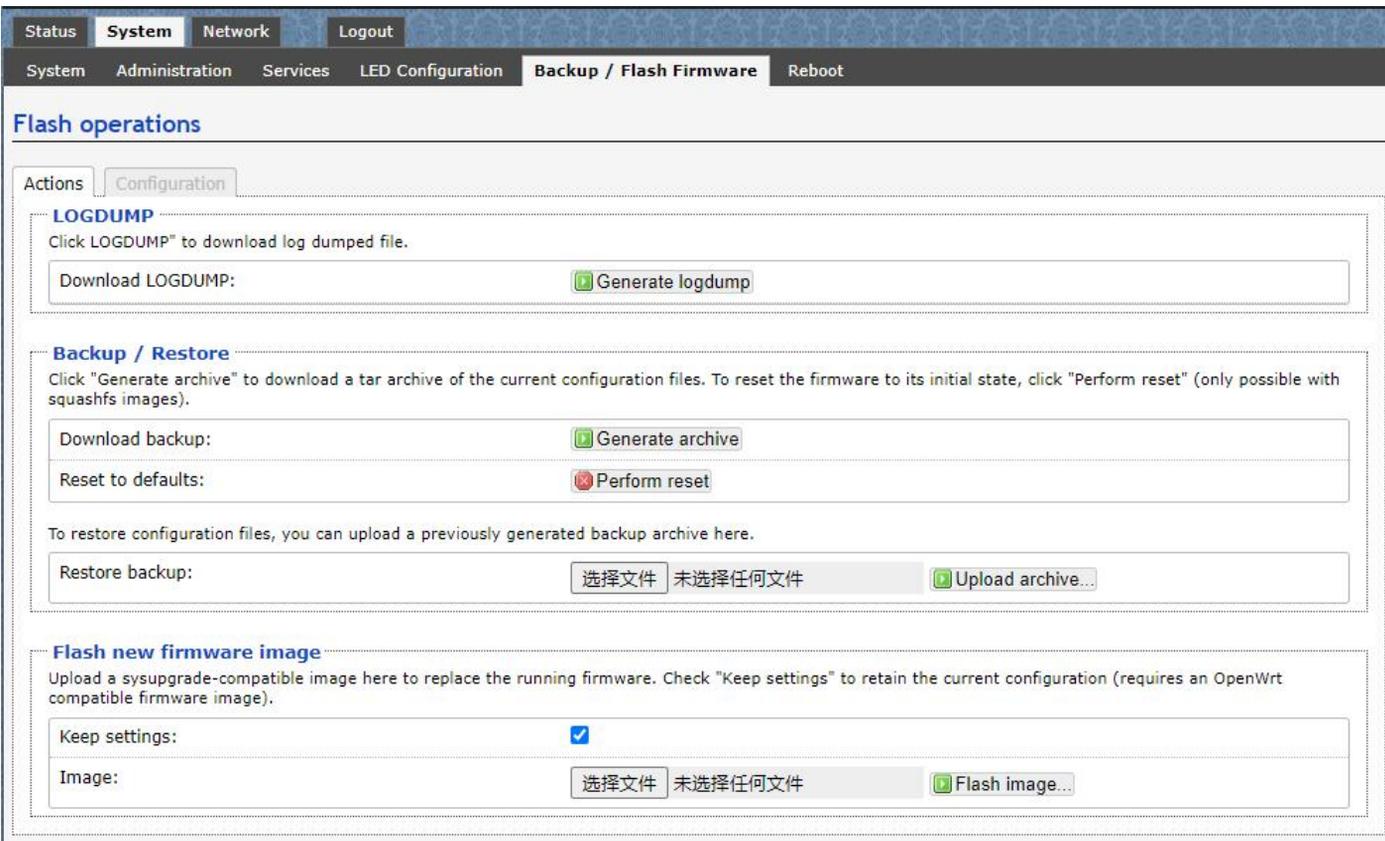
[Back to Overview](#) [Reset](#) [Save](#) [Save & Apply](#)

In the end, you need click the button “Save & Apply”, and wait for 2 minutes, then you can enjoy it.

IPQ8072 UI setting

5. Backup archive

Login System->Backup/Flash Firmware;
Then click the button “Generate archive”
Then download the archive



The screenshot displays the 'Backup / Flash Firmware' section of the Wallys IPQ8072 web interface. The navigation bar includes 'Status', 'System', 'Network', and 'Logout'. The main menu contains 'System', 'Administration', 'Services', 'LED Configuration', 'Backup / Flash Firmware', and 'Reboot'. The 'Flash operations' section is active, with sub-tabs for 'Actions' and 'Configuration'. It is divided into three main sections: 'LOGDUMP', 'Backup / Restore', and 'Flash new firmware image'. Each section contains instructions and interactive buttons for performing the respective actions.

LOGDUMP
Click LOGDUMP to download log dumped file.
Download LOGDUMP:

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:
To restore configuration files, you can upload a previously generated backup archive here.
Restore backup: 未选择任何文件

Flash new firmware image
Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires an OpenWrt compatible firmware image).
Keep settings:
Image: 未选择任何文件

IPQ8072 UI setting

6.Update new image

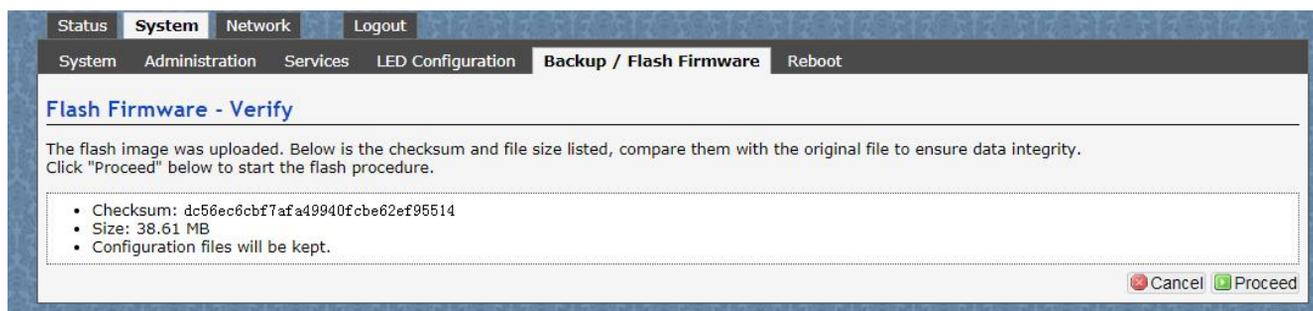
Login System->Backup/Flash Firmware;

Then click the button “ flash image”

Then click the button “Proceed” warning don't power off wait for about three minutes

Then the system will reboot automatic.

Then login again,you can enjoy it.



IPQ8072 UI setting

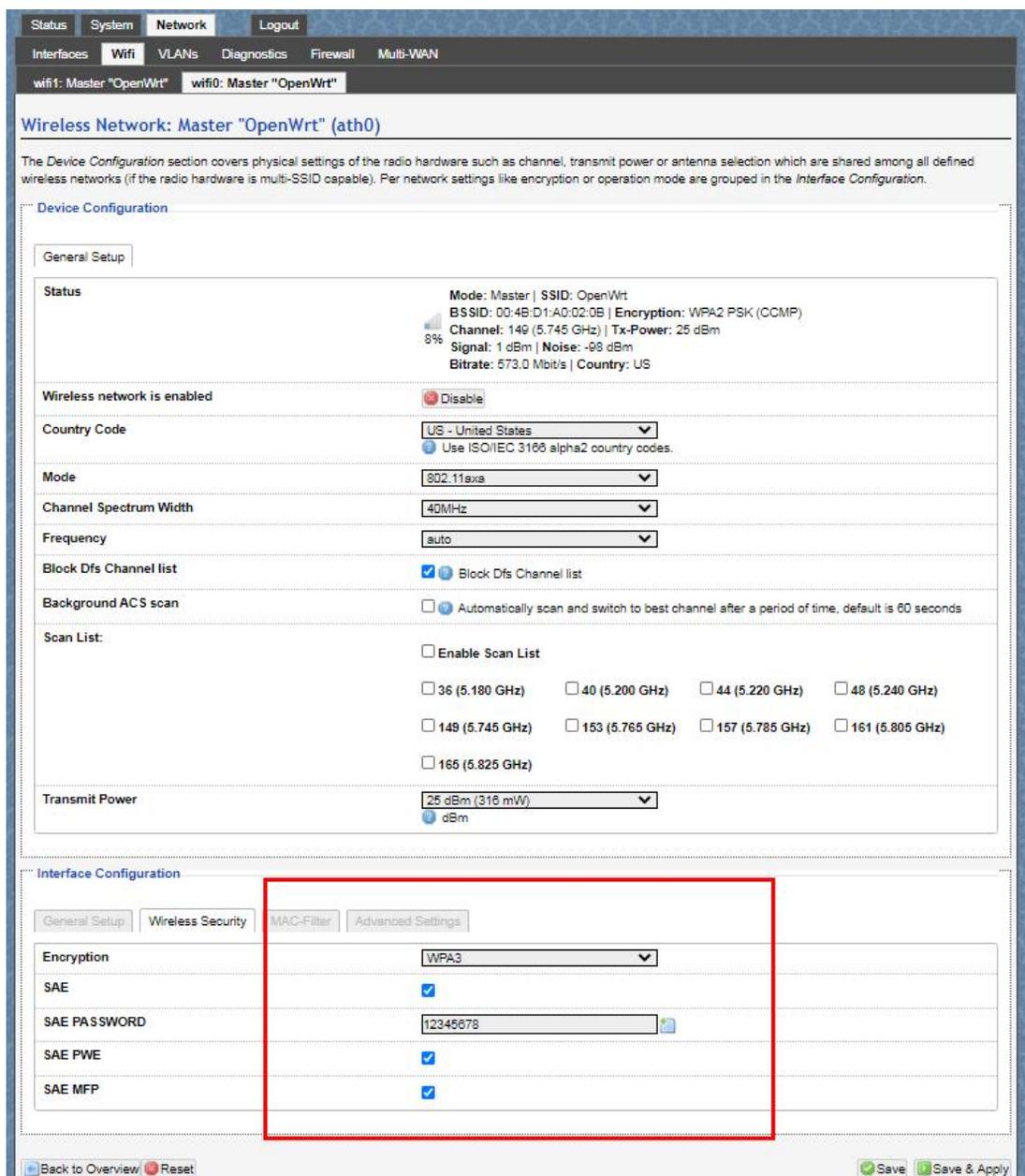
7. wireless encryption

Login System->Network/wifi/Edit->Choose 5G radio

Country Code choose " US " click the button "Wireless Security"

Then choose "WPA3" and set password

Notice:SAE/SAE PWE/SAE MFP click " ✓ "



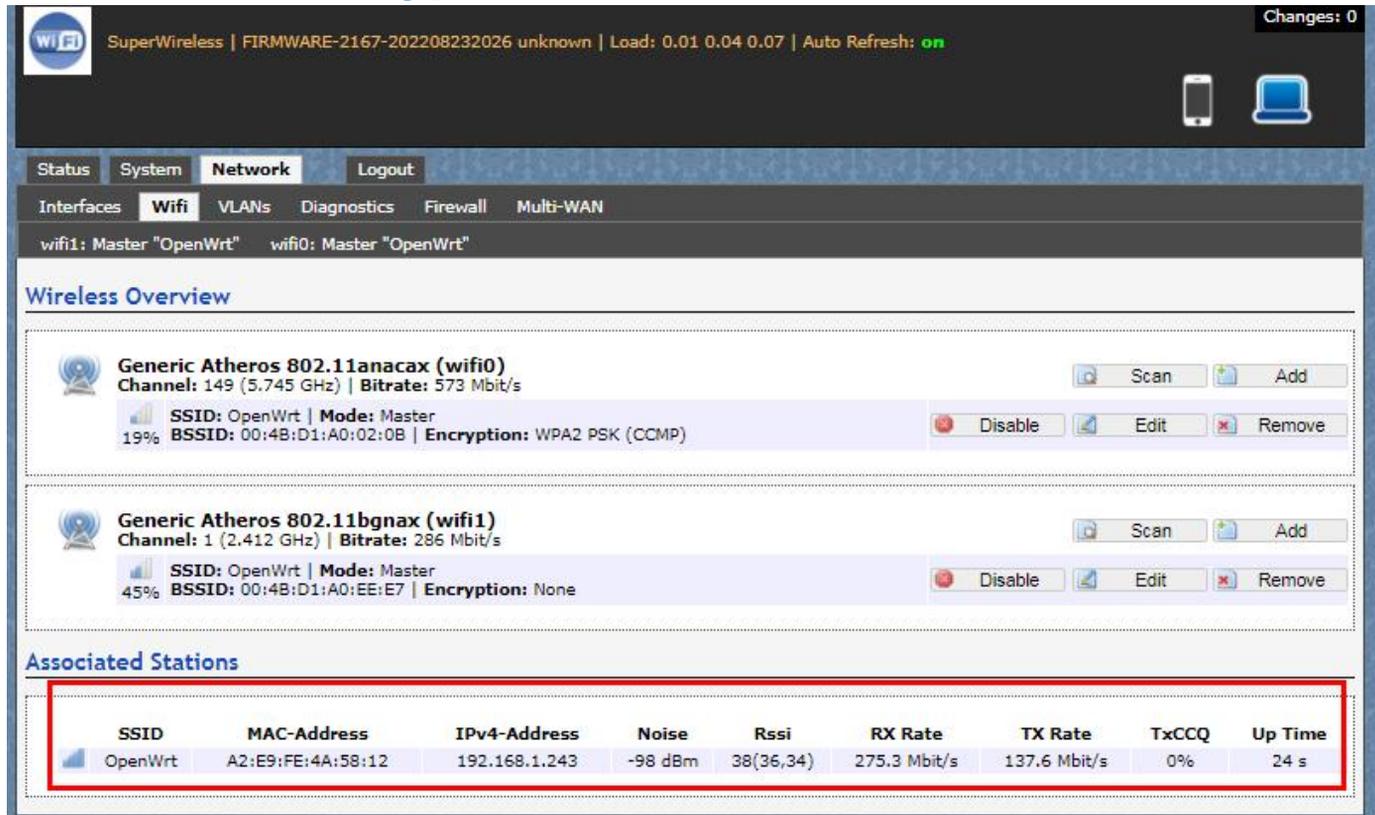
The screenshot displays the 'Wireless Network: Master "OpenWrt" (ath0)' configuration page. The 'Interface Configuration' section is active, and the 'Wireless Security' tab is selected. The security settings are as follows:

Setting	Value
Encryption	WPA3
SAE	<input checked="" type="checkbox"/>
SAE PASSWORD	12345678
SAE PWE	<input checked="" type="checkbox"/>
SAE MFP	<input checked="" type="checkbox"/>

At the bottom of the page, there are buttons for 'Back to Overview', 'Reset', 'Save', and 'Save & Apply'.

IPQ8072 UI setting

7. wireless encryption



SuperWireless | FIRMWARE-2167-202208232026 unknown | Load: 0.01 0.04 0.07 | Auto Refresh: **on** Changes: 0

WiFi icons:  

Navigation: Status | System | **Network** | Logout

Sub-navigation: Interfaces | **Wifi** | VLANs | Diagnostics | Firewall | Multi-WAN

wifi1: Master "OpenWrt" wifi0: Master "OpenWrt"

Wireless Overview

Generic Atheros 802.11anacax (wifi0) Scan Add
 Channel: 149 (5.745 GHz) | Bitrate: 573 Mbit/s
 SSID: OpenWrt | Mode: Master | 19%
 BSSID: 00:4B:D1:A0:02:0B | Encryption: WPA2 PSK (CCMP) Disable Edit Remove

Generic Atheros 802.11bgnax (wifi1) Scan Add
 Channel: 1 (2.412 GHz) | Bitrate: 286 Mbit/s
 SSID: OpenWrt | Mode: Master | 45%
 BSSID: 00:4B:D1:A0:EE:E7 | Encryption: None Disable Edit Remove

Associated Stations

SSID	MAC-Address	IPv4-Address	Noise	Rssi	RX Rate	TX Rate	TxCCQ	Up Time
OpenWrt	A2:E9:FE:4A:58:12	192.168.1.243	-98 dBm	38(36,34)	275,3 Mbit/s	137,6 Mbit/s	0%	24 s

DR8072 UART configuration

1. Introduction

The photo below shows how to use the Uart for DR6018



DR8072 UART configuration

2. Device connect

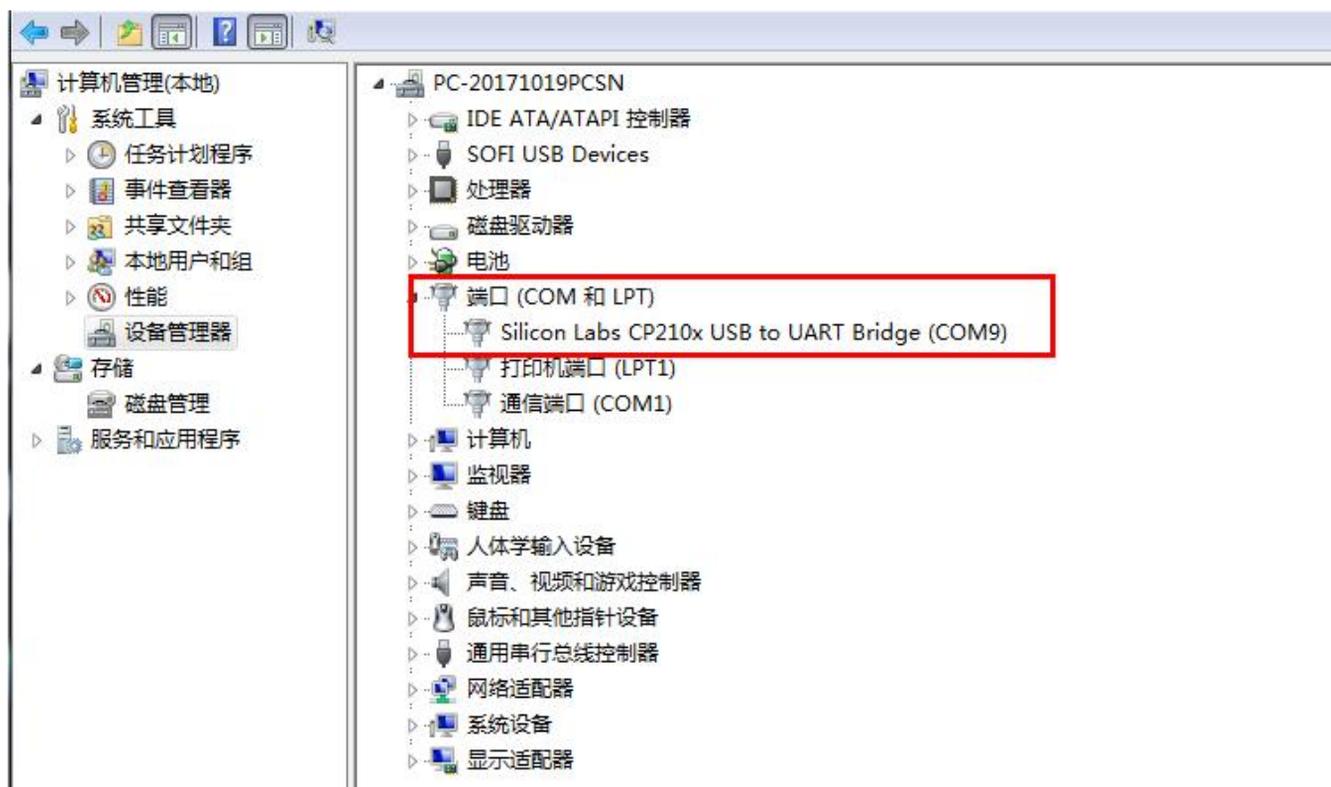
Step 1: Connect the cable to the DR6018

As the picture as above, the sequence of the signal in the UART

Connector: GND, TX, RX, VCC, And we need use GND connect black cable, TX connect to white cable, RX connect to Green cable VCC don't use.

Step 2: Check the Com number on the PC

Connect the console board to the PC with USB connector, Then check the com number on the PC, the com number on the test PC is COM9



DR8072 UART configuration

2. Device connect

Step 3 Login with the software

You can use putty,Xshell or some others,enjoy it.

```
BusyBox v1.30.1 () built-in shell (ash)

      MM          NM          MMMMMM          M          M
      $MMMMM      MMMM      MMMMMMMMMMMM      MM      MM
      MMMMMMMM    MM MMMM.      MMMM:MMMM:      MM      MMMM
MMM= MMMMM      MM      MMM      MMMM      MMM      MMMMM      MM      MMMM'
MMM= MMMMM      MMM      MM      MMMM      MMM      MMM      MMMMMMMMM
MMM= MMM      MMMM      MMMM      MMM      MMM      MMMMMMMM
MMM= MMM      MMMMM      MMMM      MMM      MMM      MMMMMMMM
MMM= MMM      MMMM,      NMMMMMMMM      MMM      MMM      MMMMMMMMMMM
MMM= MMM      MMMMM      MMMMMMMM      MMM      MMM      MM      MMMMM
MMM= MMM      MM      MMM      MMM      MMM      MMM      MM      MMM
MMM$ ,MMMM      MMMM      MMM      MM      MMM      MMMM      MM      MMM
MMMMM:      MMMMM      M      MMMMMMMMMMMM      MMMMM      MMMMMMM
MMMMM      MMMM      M      MMMMMMMM      MM      MM
MMM      M      MMMMM      M      M
M
-----
For those about to rock... (Chaos Calmer, unknown)
-----
root@SuperWireless:~# █
```



DR8072 USER MANUAL

DR8072

THIS DOCUMENT CONTAINS PROPRIETARY TECHNICAL INFORMATION, WHICH IS THE PROPERTY OF THE WALLYTECH AND SHALL NOT BE DISCLOSED TO OTHERS IN WHOLE OR IN PART, REPRODUCED, COPIED, OR USED AS THE BASIS FOR DESIGN, MANUFACTURING, OR SALE OF APPARATUS WITHOUT WRITTEN PERMISSION OF WALLYTECH.