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WALLYS DR8072 V01 Router Board User Manual

**DR8072/DR6018-S – V01 Router Board
User Manual**

Contents

DR8072 V01 Router Board

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IPQ807 x UI setting

1. Input the IP 192.168.1.1 and login

2. Input the username "admin" password "password" then press the button "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"

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 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

WIFI | OpenWrt | OpenWrt Chaos Calmer 15.05.1 unknown | Load: 0.07 0.03 0.00 | Auto Refresh: on

Status System Services **Network** Logout

Interfaces **Wifi** Switch Static Routes Diagnostics Firewall Multi-WAN

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

Wireless Network: Master "OpenWrt" (ath0)

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: Master | SSID: OpenWrt BSSID: C4:4B:D1:00:81:76 | Encryption: None Channel: 116 (5.580 GHz) | Tx-Power: 24 dBm 25% Signal: 1 dBm | Noise: -93 dBm Bitrate: 2401.0 Mbit/s | Country: US
Wireless network is enabled	Disable
Country Code	00 - World Use ISO/IEC 3166 alpha2 country codes.
Mode	802.11axa
Channel Spectrum Width	20MHZ
Half/Quarter Rate	full rate
Frequency	auto

Interface Configuration

General Setup Wireless Security MAC-Filter Advanced Settings

ESSID	OpenWrt
Mode	Access Point
Guard Interval	Short
Hide ESSID	☐

Back to Overview Reset   Save Save & Apply

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 (WDS)
Guard Interval	Short
Hide ESSID	☐

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.
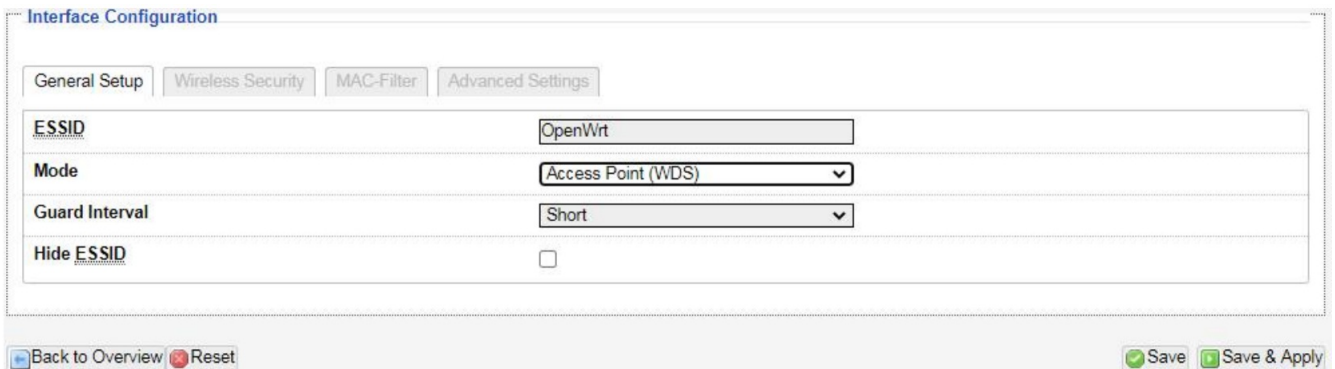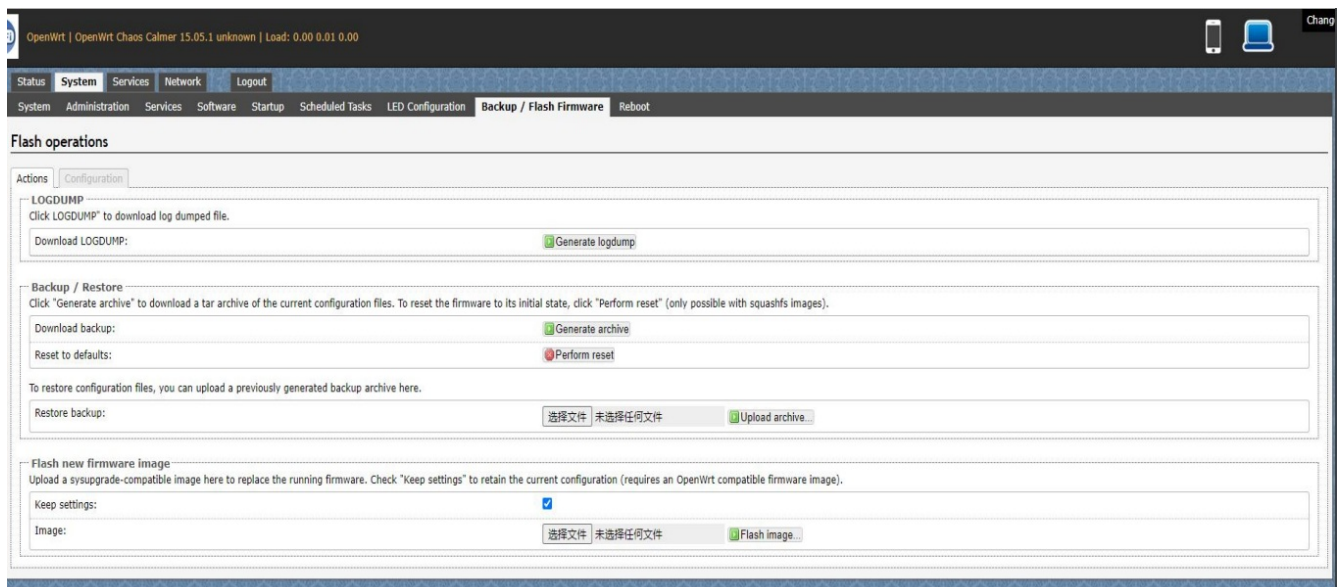
5. **Backup archive**

Login System->Backup/Flash Firmware;

Then click the button "Generate archive"

Then download the archive

OpenWrt | OpenWrt Chaos Calmer 15.05.1 unknown | Load: 0.00 0.01 0.00

Status **System** Services Network Logout

System Administration Services Software Startup Scheduled Tasks LED Configuration **Backup / Flash Firmware** Reboot

Flash operations

Actions Configuration

LOGDUMP
Click "LOGDUMP" to download log dumped file.

Download LOGDUMP:	Generate 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:	Generate archive
Reset to defaults:	Perform reset

To restore configuration files, you can upload a previously generated backup archive here.

Restore backup:	选择文件 未选择任何文件 Upload archive...

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).

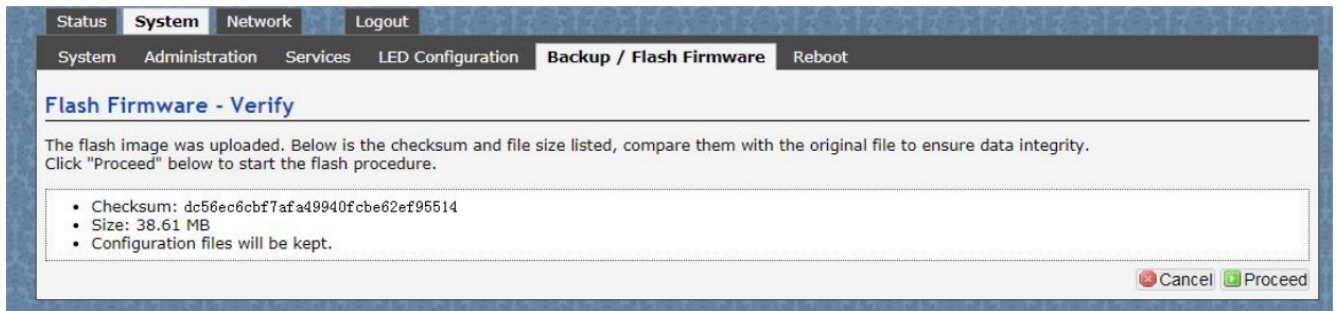| Keep settings:	☑
Image:	选择文件 未选择任何文件 Flash image...

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.

7. **wireless encryption**

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

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

Then choose "WPA3" and set password

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

Wireless Network: Master "OpenWrt" (ath0)

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: Master | **SSID:** OpenWrt
	BSSID: 00:4B:D1:A0:02:0B | **Encryption:** WPA2 PSK (CCMP)
8%	**Channel:** 149 (5.745 GHz) | **Tx-Power:** 25 dBm
	Signal: 1 dBm | **Noise:** -98 dBm
	Bitrate: 573.0 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	40MHz ▾

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)

☐ 149 (5.745 GHz) ☐ 153 (5.765 GHz) ☐ 157 (5.785 GHz) ☐ 161 (5.805 GHz)

☐ 165 (5.825 GHz)

Transmit Power	25 dBm (316 mW) ▾
	🛈 dBm

Interface Configuration

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

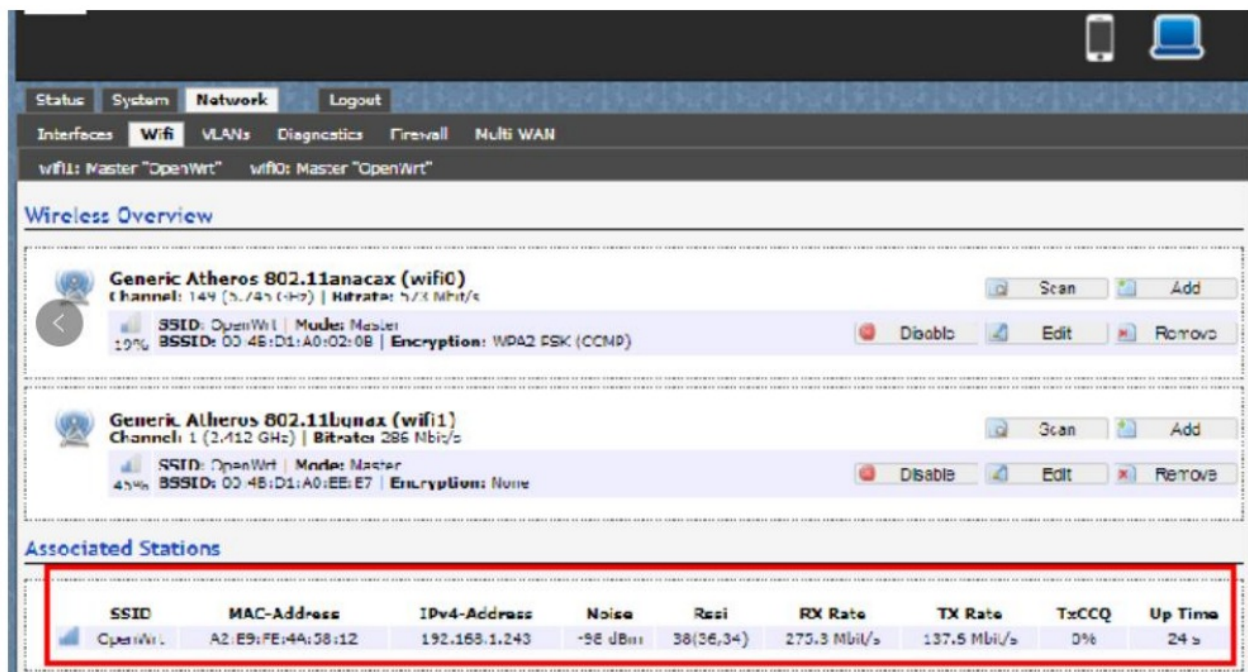| Encryption	WPA3 ▾
SAE	☑
SAE PASSWORD	12345678
SAE PWE	☑
SAE MFP	☑

⬅ Back to Overview ❌ Reset   ✅ Save ☑ Save & Apply

DR8072 V01 UART configuration

1. **Introduction**

   The photo below shows how to use the Uart for DR8072 V01

2. **Device connect**

   Step 1: Connect the cable to the DR8072 V01

   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.
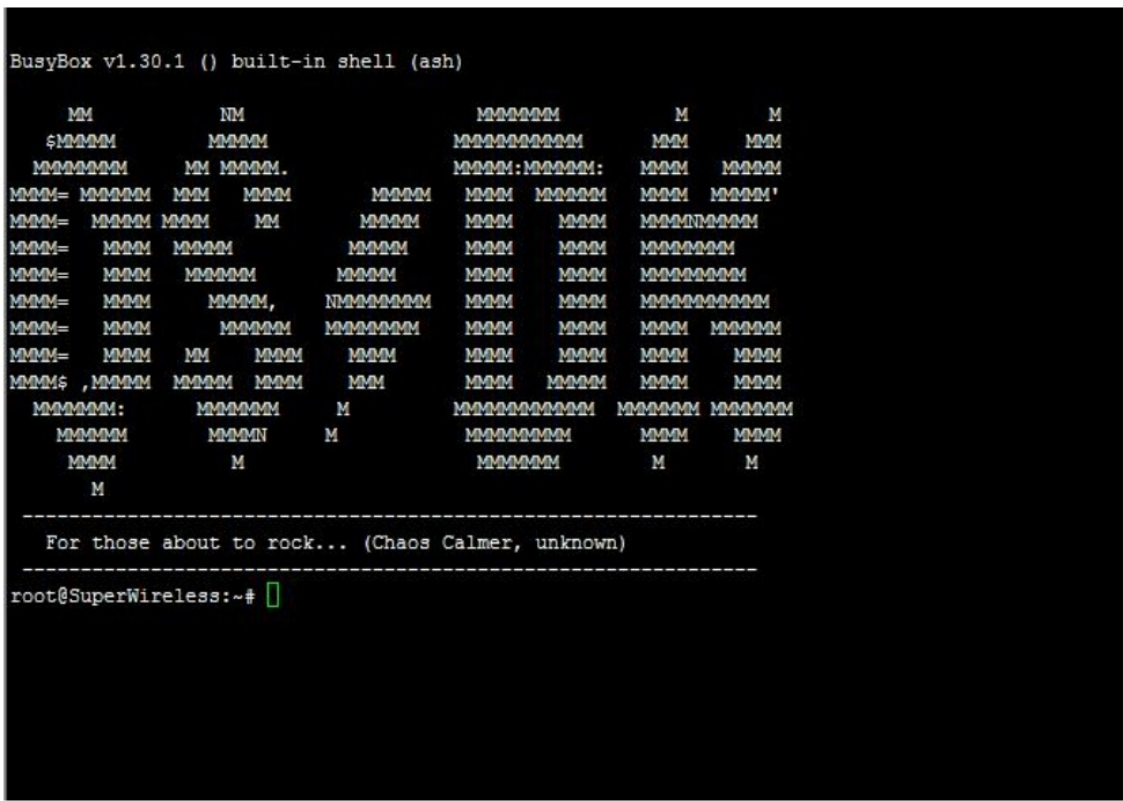
   Step 2: Check the Com number on the PC

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 COM15

3. **Device connect**

Step 3 Login with the software

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

Documents / Resources

	WALLYS DR8072 V01 Router Board [pdf] User Manual DR6018-S, DR8072 V01, DR8072 V01 Router Board, DR8072 V01, Router Board, Board

References

- **Wallys 802.11ax, wifi 6, IPQ4029,IPQ4019,IPQ6018,IPQ6000.Router board, wireless card.Access Point.**

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