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WALLYS DR5018 Router Board User Manual

**DR5018 Router Board
User Manual**

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DR5018 Router Board

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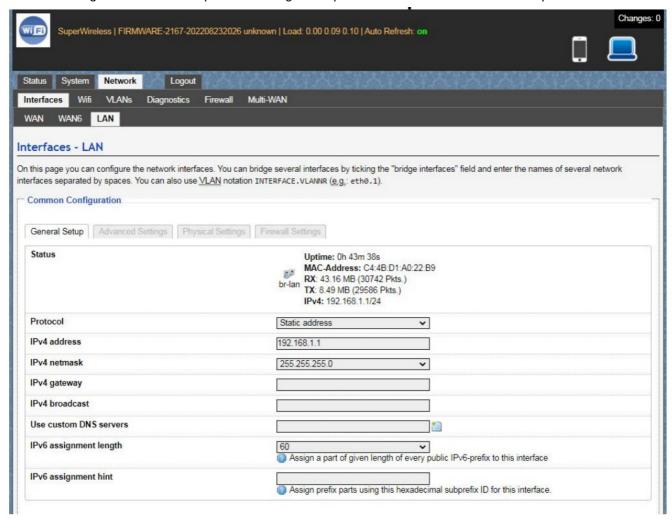
IPQ5018 UI setting

1. **Input the IP 192.168.1.1 and login**
2. **Input the username "admin" password**

   "password" then press the button "Login"

Authorization Required

Please enter your username and password.

| Username | 👤 admin |
| Password | 🔑 ········· |

❌ Reset ▶️ Login

3. **Network setting**

   • IP Setting: setting IP in the path "network->Interfaces->LAN>IPV4 address"

   • DHCP setting:DHCP and other protocolsetting in the path network-> Interfaces-> LAN->protocol"
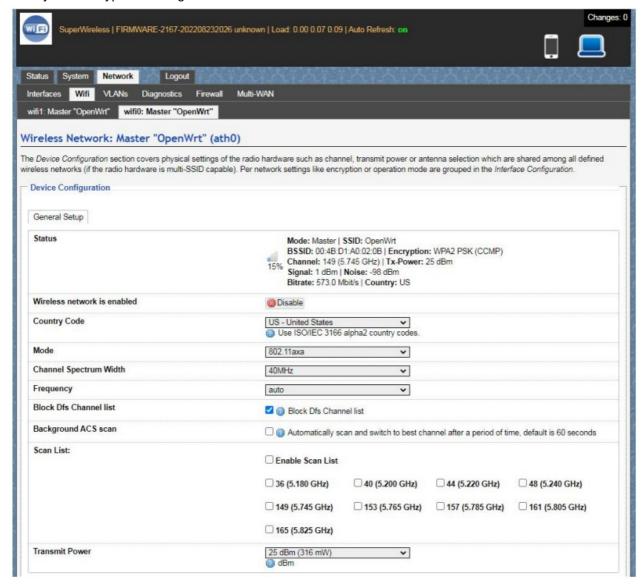

4. **Wireless setting**

   login the path network->Interfaces->WIFI, then choose one wifi,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

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

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

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 " √ "

Interfaces | **Wifi** | VLANs | 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*.
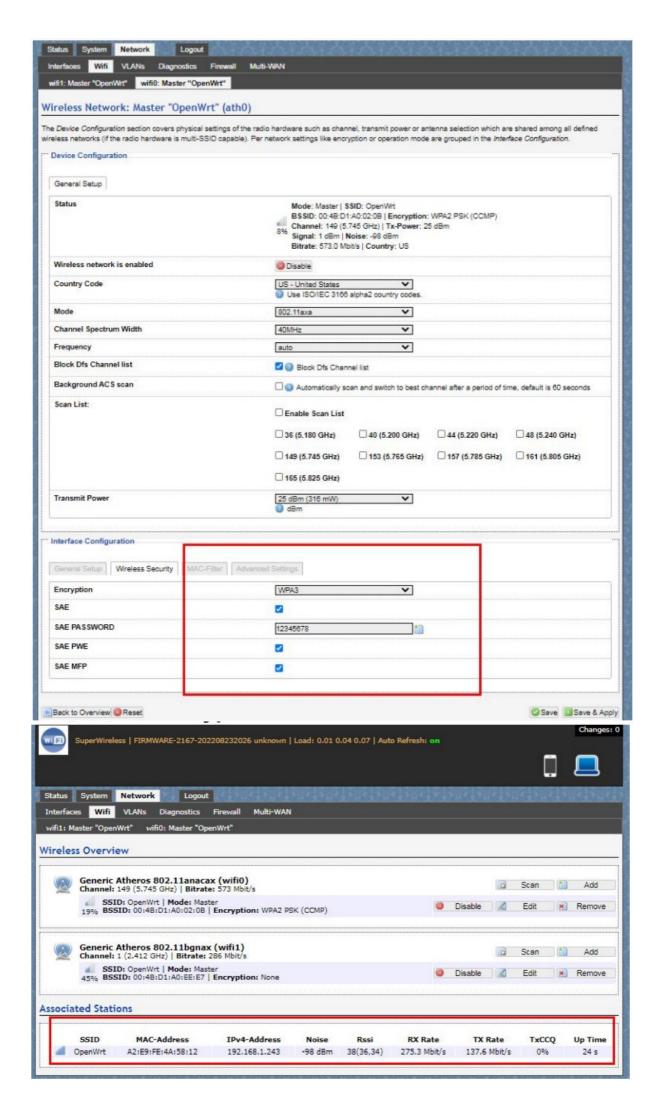
Device Configuration

General Setup

Status	**Mode:** Master | **SSID:** OpenWrt **BSSID:** 00:4B:D1:A0:02:0B | **Encryption:** WPA2 PSK (CCMP) **Channel:** 149 (5.745 GHz) | **Tx-Power:** 25 dBm 8% **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

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

Changes: 0

Wireless Overview

Generic Atheros 802.11anacax (wifi0)
Channel: 149 (5.745 GHz) | Bitrate: 573 Mbit/s   [Scan] [Add]

19% **SSID:** OpenWrt | **Mode:** Master
BSSID: 00:4B:D1:A0:02:0B | **Encryption:** WPA2 PSK (CCMP)   ⊗ Disable Edit ✕ Remove

Generic Atheros 802.11bgnax (wifi1)
Channel: 1 (2.412 GHz) | Bitrate: 286 Mbit/s   [Scan] [Add]

45% **SSID:** OpenWrt | **Mode:** Master
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

DR5018 UART configuration

1. **Introduction**

   The photo below shows how to use the Uart for DR5018

2. **Device connect**

   Step 1: Connect the cable to the DR5018

   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.
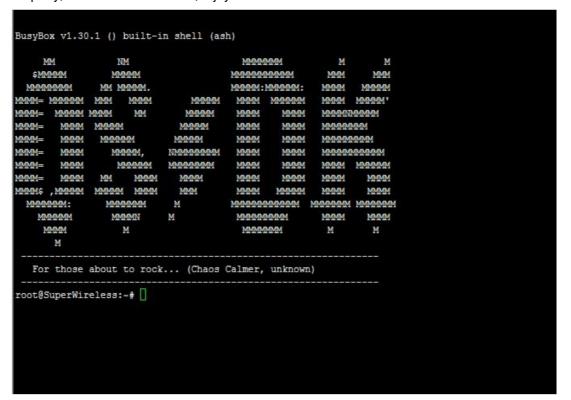
   Step 2: Check the Com number on the PC

   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

Step 3 Login with the software

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

Documents / **Resources**

References

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