

# WALLYS DR5018 Router Board User Manual

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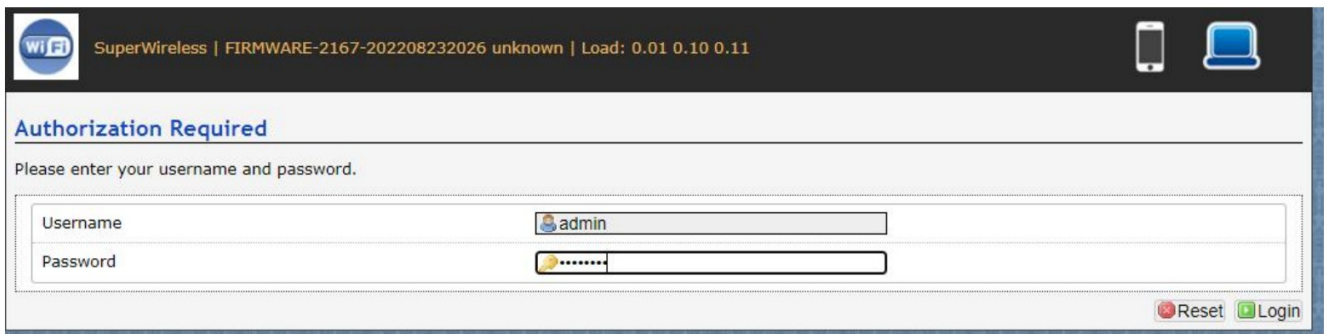
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## DR5018 Router Board

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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”



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

**Authorization Required**

Please enter your username and password.

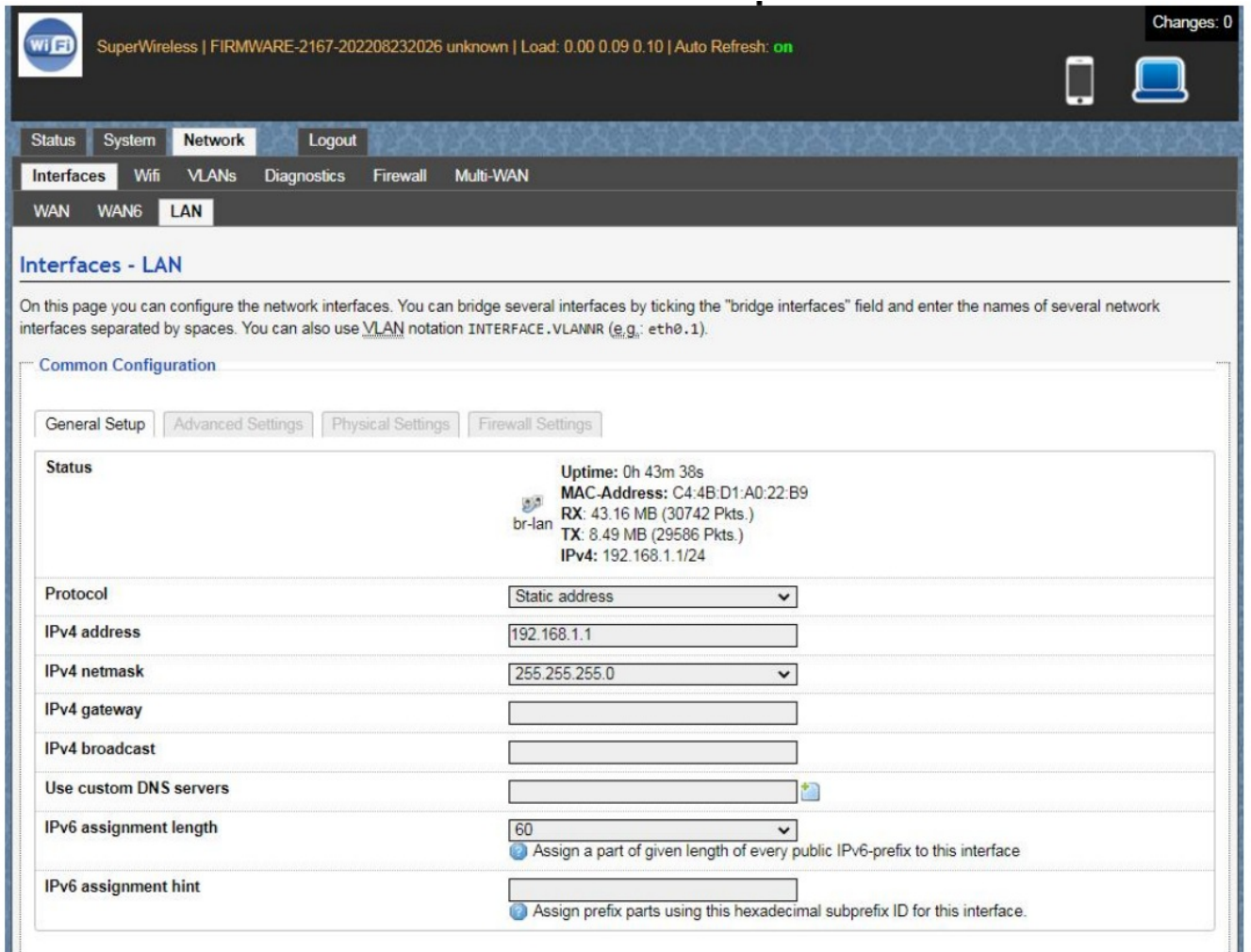
Username:

Password:

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

### 3. Network setting

- IP Setting: setting IP in the path “network->Interfaces->LAN>IPv4 address”
- DHCP setting:DHCP and other protocolsetting in the path network-> Interfaces-> LAN->protocol”



SuperWireless | FIRMWARE-2167-202208232026 unknown | Load: 0.00 0.09 0.10 | Auto Refresh: **on**

Changes: 0

Status System **Network** Logout

Interfaces Wifi VLANs Diagnostics Firewall Multi-WAN

WAN WAN6 **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.VLANNR (e.g., eth0.1).

**Common Configuration**

General Setup Advanced Settings Physical Settings Firewall Settings

**Status**

Uptime: 0h 43m 38s  
 MAC-Address: C4:4B:D1:A0:22:B9  
 RX: 43.16 MB (30742 Pkts.)  
 TX: 8.49 MB (29586 Pkts.)  
 IPv4: 192.168.1.1/24

br-lan

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

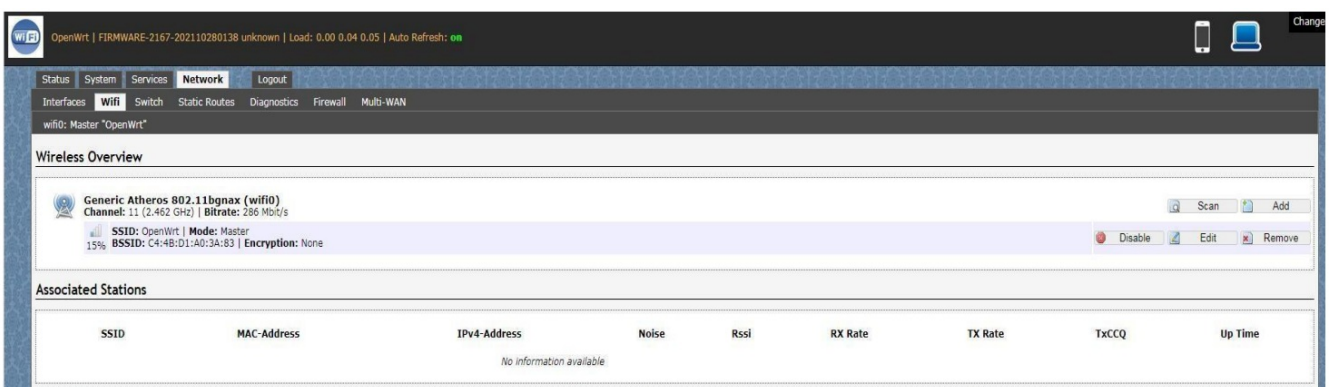
Assign a part of given length of every public IPv6-prefix to this interface

IPv6 assignment hint:

Assign prefix parts using this hexadecimal subprefix ID for this interface.

### 4. Wireless setting

login the path network->Interfaces->WIFI, then choose one wifi,we select the red marked as example,click the button ‘Edit’



OpenWrt | FIRMWARE-2167-202110280138 unknown | Load: 0.00 0.04 0.05 | Auto Refresh: **on**

Status System Services **Network** Logout

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

wifi0: Master “OpenWrt”

**Wireless Overview**

Generic Atheros 802.11bgnax (wifi0)  
 Channel: 11 (2.462 GHz) | Bitrate: 286 Mbit/s

SSID: OpenWrt | Mode: Master  
 15% BSSID: C4:4B:D1:A0:3A:83 | Encryption: None

[Scan](#) [Add](#) [Disable](#) [Edit](#) [Remove](#)

**Associated Stations**

SSID	MAC-Address	IPv4-Address	Noise	Rssi	RX Rate	TX Rate	TxCCQ	Up Time
No information available								

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

SuperWireless | FIRMWARE-2167-202208232026 unknown | Load: 0.00 0.07 0.09 | Auto Refresh: **on** Changes: 0

Status System **Network** Logout

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  
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

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** ☐

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 Code choose “ US ” click the button“Wireless Security”

Then choose “WPA3” and set password

**Notice: SAE/SAE PWE/SAE MFP click “ √ ”**

StatusSystemNetworkLogout

InterfacesWifiVLANsDiagnosticsFirewallMulti-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  
Signal: 1 dBm | Noise: -98 dBm  
Bitrate: 573.0 Mbit/s | Country: US

Wireless network is enabled

Country Code

Mode

Channel Spectrum Width

Frequency

Block Dfs Channel list

Background ACS scan

Scan List:

Transmit Power

Interface Configuration

General SetupWireless SecurityMAC-FilterAdvanced Settings

Encryption

SAE

SAE PASSWORD

SAE PWE

SAE MFP

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

Changes: 0

StatusSystemNetworkLogout

InterfacesWifiVLANsDiagnosticsFirewallMulti-WAN

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

Wireless Overview

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

SSID: OpenWrt | Mode: Master  
BSSID: 00:4B:D1:A0:02:0B | Encryption: WPA2 PSK (CCMP)

DisableEditRemove

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

SSID: OpenWrt | Mode: Master  
BSSID: 00:4B:D1:A0:EE:E7 | Encryption: None

DisableEditRemove

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.

```

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


      MM      NM      MMMMM      M      M
    $MMMM      MMMMM      MMMMMMMMMMM      MM      MM
  MMMMMMM      MM      MMMMM.      MMMM:MMMMM:      MM      MM
MMM= MMMMM      MM      MM      MMMM      MM      MMMMM      MM      MMMM'
MMM= MMMMM      MM      MM      MMMM      MM      MM      MMMMMMMMMMM
MMM= MMMM      MMMM      MMMM      MM      MM      MM      MMMMMMMM
MMM= MMMM      MMMMM      MMMM      MM      MM      MM      MMMMMMMMM
MMM= MMMM      MMMM,      MMMMMMMM      MM      MM      MM      MMMMMMMMMMM
MMM= MMMM      MMMMM      MMMMMMMM      MM      MM      MM      MMMM      MMMM
MMM= MMMM      MM      MMMM      MM      MM      MM      MM      MM      MM
MMM$ ,MMMM      MMMM      MM      MM      MM      MM      MM      MM      MM
  MMMMM:      MMMMM      M      MMMMMMMMMMM      MMMMM      MMMMMMM
  MMMM      MM      M      MMMMM      MM      MM      MM      MM
    MMM      M      MMMMM      M      M

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  For those about to rock... (Chaos Calmer, unknown)
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root@SuperWireless:~#

```



	<p><a href="#">WALLY DR5018 Router Board</a> [pdf] User Manual</p> <p>IPQ5018, DR5018, DR5018 Router Board, DR5018, Router Board, Board, Router</p>
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References

- [Wallys 802.11ax, wifi 6, IPQ4029,IPQ4019,IPQ6018,IPQ6000.Router board, wireless card.Access Point.](#)