



DR6018-S User manual

CONFIDENTIAL

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.

TABLES OF CONTENT

| | |
|-----------------------------------|---|
| IPQ60xx UI setting | 3 |
| DR6018-S UART configuration | 8 |

IPQ601x 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 protocol setting in the path network->Interfaces->LAN->protocol”

SuperWireless | FIRMWARE-2167-202207112317 unknown | Load: 0.00 0.06 0.06 | Auto Refresh: on

Changes: 0

Status System Services Network Logout

Interfaces Wifi VLANs 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 8m 28s
MAC-Address: 00:03:7F:BA:DB:AD
br-lan RX: 241.15 KB (2952 Pkts.)
TX: 1.49 MB (2192 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.

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 screenshot displays the WinBox interface for wireless settings. At the top, there's a navigation bar with 'Status', 'System', 'Services', 'Network', and 'Logout'. Below that, 'Interfaces' is selected, showing 'Wifi' as the active tab. The 'Wireless Overview' section lists two networks:

- Generic Atheros 802.11anacax (wifi0)**: Channel 64 (5.320 GHz), Bitrate: 573 Mbit/s, SSID: wifi6-5g, Mode: Master, BSSID: 00:03:7F:12:C5:EB, Encryption: None. 84% signal strength. Buttons: Scan, Add, Disable, Edit, Remove.
- Generic Atheros 802.11bgnax (wifi1)**: Channel 1 (2.412 GHz), Bitrate: 573 Mbit/s, SSID: wifi6-2.4g, Mode: Master, BSSID: 00:03:7F:12:91:B7, Encryption: None. 11% signal strength. Buttons: Scan, Add, Disable, Edit, Remove.

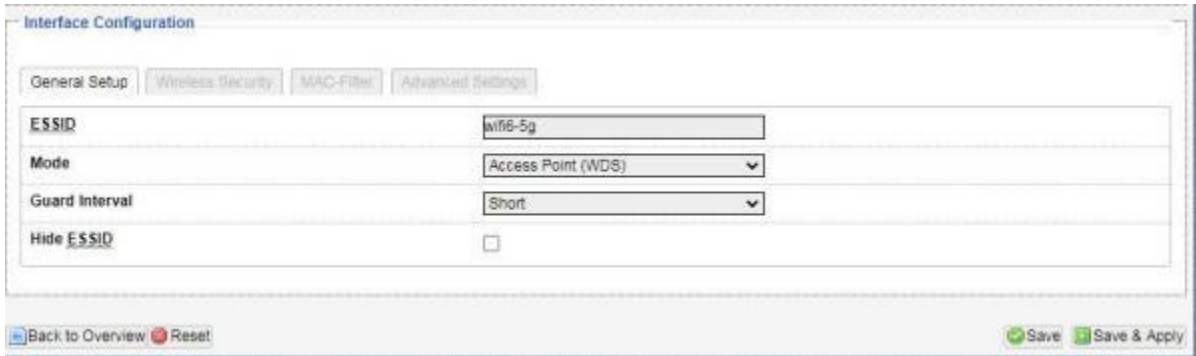
The 'Associated Stations' table is currently empty, with the text 'No information available' centered below the headers: SSID, MAC-Address, IPv4-Address, Noise, Rssi, RX Rate, TX Rate, TxCCQ, and Up Time.

- 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 WinBox configuration page for a wireless network. The top navigation bar includes 'Status', 'System', 'Services', 'Network', and 'Logout'. Below this, there are tabs for 'Interfaces', 'Wifi', 'VLANs', 'Diagnostics', 'Firewall', and 'Multi-WAN'. The current view is for 'wifi0: Master "wifi6-5g"'. The main heading is 'Wireless Network: Master "wifi6-5g" (ath0)'. A descriptive paragraph explains that the 'Device Configuration' section covers physical settings like channel and power, while 'Interface Configuration' covers encryption and mode. The 'Device Configuration' section is expanded to show 'General Setup' with the following settings:

- Status:** Mode: Master | SSID: wifi6-5g | BSSID: 00:03:7F:12:C5:EB | Encryption: None | Channel: 84 (5.320 GHz) | Tx-Power: 23 dBm | Signal: 1 dBm | Noise: -95 dBm | Bitrate: 573.0 Mbit/s | Country: CN
- Wireless network is enabled:** Disable
- Country Code:** CN - China (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)
 - 52 (5.260 GHz) | 56 (5.280 GHz) | 60 (5.300 GHz) | 64 (5.320 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



The screenshot displays the 'Interface Configuration' page with the following settings:

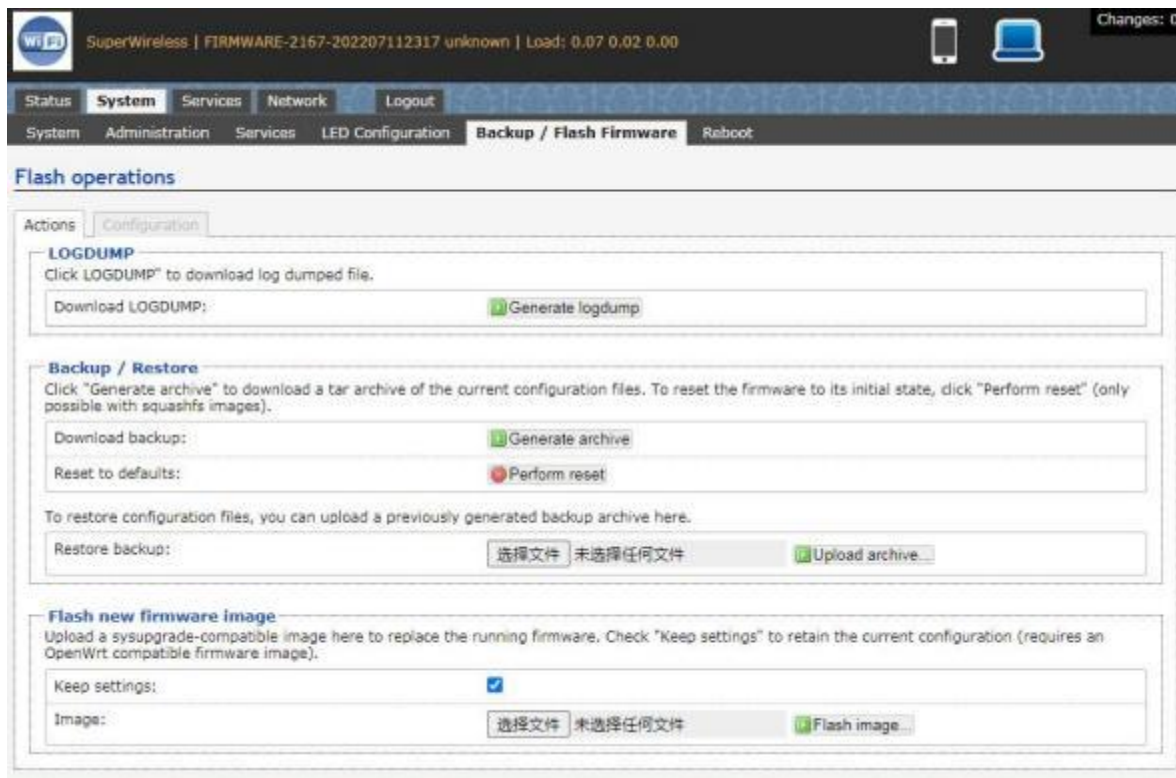
| Field | Value |
|----------------|--------------------------|
| ESSID | wifi6-5g |
| Mode | Access Point (WDS) |
| Guard Interval | Short |
| Hide ESSID | <input type="checkbox"/> |

At the bottom of the interface, there are buttons for 'Back to Overview', 'Reset', 'Save', and '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



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 "√"



Status System Services **Network** Logout

Interfaces **WiFi** VLANs Diagnostics Firewall Multi-WAN

wifi1: Master "tina1" wifi0: Master "tina1"

Wireless Network: Master "tina1" (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: tina1 BSSID: C4:4B:D1:A0:2F:3E Encryption: WPA2 PSK (CCMP) Channel: 100 (5.800 GHz) Tx-Power: 27 dBm Signal: 1 dBm Noise: -95 dBm Bitrate: 0.0 Mbit/s Country: US |
| Wireless network is enabled | <input type="checkbox"/> Disable |
| Country Code | <input type="text" value="US - United States"/> <input type="checkbox"/> Use ISO/IEC 3166 alpha2 country codes |
| Mode | <input type="text" value="802.11axa"/> |
| Channel Spectrum Width | <input type="text" value="40MHz"/> |
| Frequency | <input type="text" value="Auto"/> |
| Block Dfs Channel list | <input checked="" type="checkbox"/> Block Dfs Channel list |
| Background ACS scan | <input type="checkbox"/> Automatically scan and switch to best channel after a period of time, default is 60 seconds |
| Scan List: | <input type="checkbox"/> Enable Scan List <input type="checkbox"/> 36 (5.180 GHz) <input type="checkbox"/> 40 (5.200 GHz) <input type="checkbox"/> 44 (5.220 GHz) <input type="checkbox"/> 48 (5.240 GHz) <input type="checkbox"/> 52 (5.260 GHz) <input type="checkbox"/> 56 (5.280 GHz) <input type="checkbox"/> 60 (5.300 GHz) <input type="checkbox"/> 64 (5.320 GHz) <input type="checkbox"/> 100 (5.500 GHz) <input type="checkbox"/> 104 (5.520 GHz) <input type="checkbox"/> 108 (5.540 GHz) <input type="checkbox"/> 112 (5.560 GHz) <input type="checkbox"/> 116 (5.580 GHz) <input type="checkbox"/> 120 (5.600 GHz) <input type="checkbox"/> 124 (5.620 GHz) <input type="checkbox"/> 128 (5.640 GHz) <input type="checkbox"/> 132 (5.660 GHz) <input type="checkbox"/> 136 (5.680 GHz) <input type="checkbox"/> 140 (5.700 GHz) <input type="checkbox"/> 144 (5.720 GHz) <input type="checkbox"/> 149 (5.745 GHz) <input type="checkbox"/> 153 (5.765 GHz) <input type="checkbox"/> 157 (5.785 GHz) <input type="checkbox"/> 161 (5.805 GHz) <input type="checkbox"/> 165 (5.825 GHz) |
| Transmit Power | <input type="text" value="25 dBm (316 mW)"/> <input type="checkbox"/> dBm |

Interface Configuration

General Setup

Wireless Security

MAC-Filter

Advanced Settings

| | |
|--------------|---------------------------------------|
| Encryption | <input type="text" value="WPA3"/> |
| SAE | <input checked="" type="checkbox"/> |
| SAE PASSWORD | <input type="text" value="12345678"/> |
| SAE PWE | <input checked="" type="checkbox"/> |
| SAE MFP | <input checked="" type="checkbox"/> |

[Back to Overview](#)



Status System Services **Network** Logout

Interfaces **Wifi** VLANs Diagnostics Firewall Multi-WAN

wifi1: Master "tina1" wifi0: Master "tina1"

Wireless Overview

Generic Atheros 802.11anacax (wifi0)
Channel: 100 (5.500 GHz) | Bitrate: 573 Mbit/s
19% **SSID:** tina1 | **Mode:** Master
BSSID: C4:4B:D1:A0:2F:3E | **Encryption:** WPA2 PSK (CCMP)

Atheros 802.11 Wireless Controller (wifi1)
0% **SSID:** tina1 | **Mode:** Master
Wireless is disabled or not associated

Associated Stations

| SSID | MAC-Address | IPv4-Address | Noise | Rssi | RX Rate | TX Rate | TxCCQ | Up Time |
|-------|-------------------|--------------|---------|-----------|--------------|--------------|-------|---------|
| tina1 | C4:4B:D1:A0:2F:2E | ? | -95 dBm | 56(53,54) | 412.9 Mbit/s | 344.1 Mbit/s | 0% | 24 s |

DR6018-S UART configuration

1. Induction

That is show how to use the Uart for DR6018-S



2. Device connect

Step 1: connect the cable to the DR6018 V4

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

