

DR5332 USER MANUAL

- 1.IPQ5332 UI settings
- 2.DR5332 UART configuration
- 3.How to set up the card slot

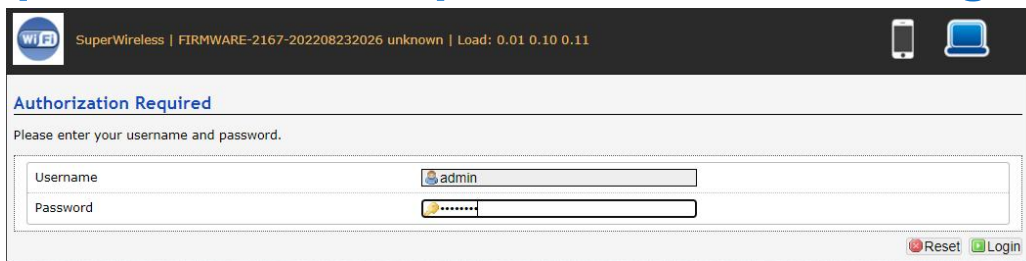
DR5332



IPQ5332 UI setting

1. Input the IP 192.168.1.1 and login

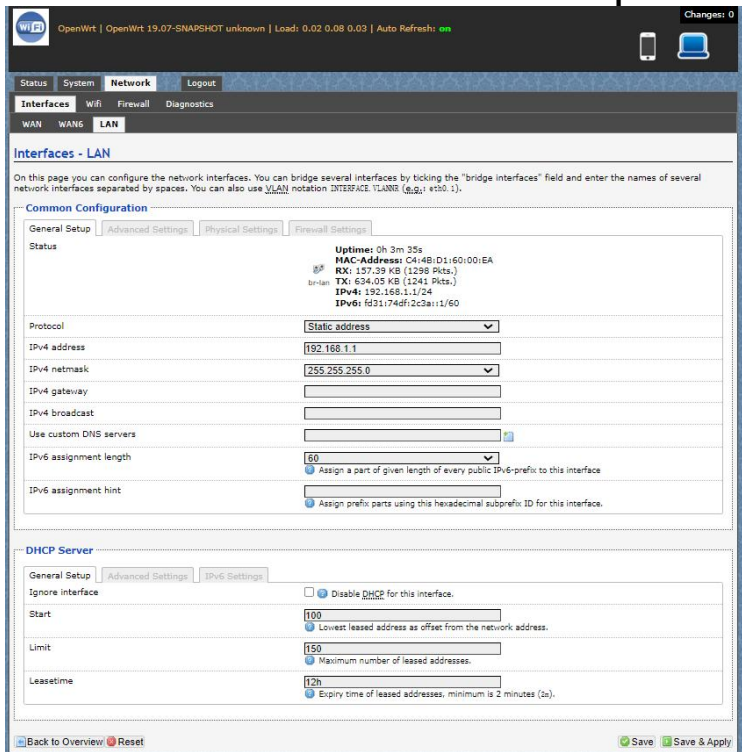
2. Input the username “admin” password “password” then press the button “Login”



The screenshot shows the login interface of the Wallys device. At the top, it displays 'SuperWireless | FIRMWARE: 2167-202208232026 unknown | Load: 0.01 0.10 0.11'. Below this, there is a section titled 'Authorization Required' with the instruction 'Please enter your username and password.' There are two input fields: 'Username' with the value 'admin' and 'Password' with masked characters. At the bottom right, there are 'Reset' and 'Login' buttons.

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"

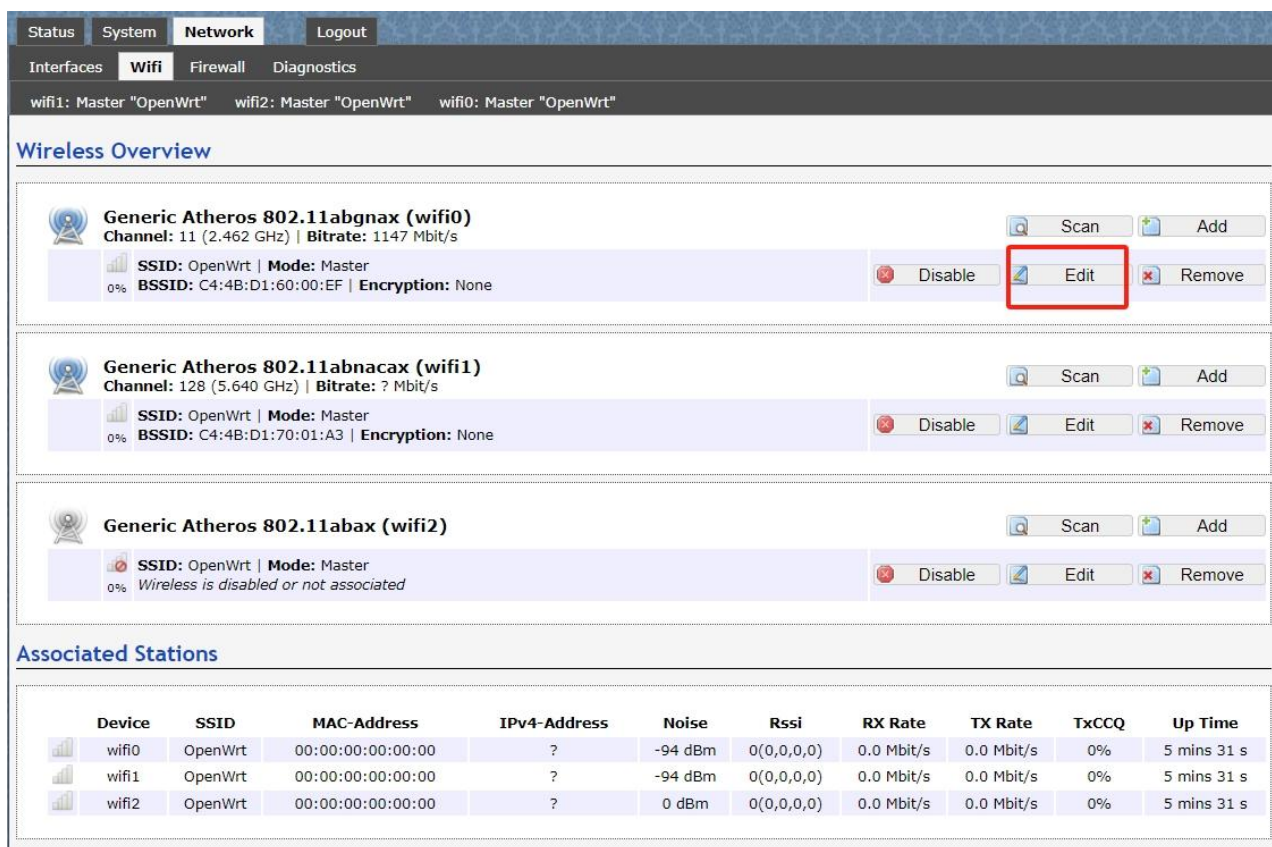


The screenshot shows the 'Interfaces - LAN' configuration page. It includes a 'Common Configuration' section with fields for 'Protocol' (set to 'Static address'), 'IPv4 address' (192.168.1.1), 'IPv4 netmask' (255.255.255.0), and 'IPv4 gateway'. There is also a 'DHCP Server' section with fields for 'Start' (100), 'Limit' (150), and 'Leasetime' (12h). The page has a 'Back to Overview' button and 'Save' and 'Save & Apply' buttons at the bottom.

IPQ5332 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 shows the OpenWrt Network configuration page. The 'Network' tab is selected, and the 'Wifi' sub-tab is active. The page displays three wireless interfaces: wifi0, wifi1, and wifi2. Each interface has a status bar showing signal strength, SSID, Mode, and BSSID. Below each status bar are control buttons: Scan, Add, Disable, Edit, and Remove. The 'Edit' button for the first interface (wifi0) is highlighted with a red box.

Wireless Overview

- Generic Atheros 802.11abgnax (wifi0)**
Channel: 11 (2.462 GHz) | Bitrate: 1147 Mbit/s
SSID: OpenWrt | Mode: Master
BSSID: C4:4B:D1:60:00:EF | Encryption: None
Buttons: Scan, Add, Disable, **Edit**, Remove
- Generic Atheros 802.11abnacax (wifi1)**
Channel: 128 (5.640 GHz) | Bitrate: ? Mbit/s
SSID: OpenWrt | Mode: Master
BSSID: C4:4B:D1:70:01:A3 | Encryption: None
Buttons: Scan, Add, Disable, Edit, Remove
- Generic Atheros 802.11abax (wifi2)**
SSID: OpenWrt | Mode: Master
Wireless is disabled or not associated
Buttons: Scan, Add, Disable, Edit, Remove

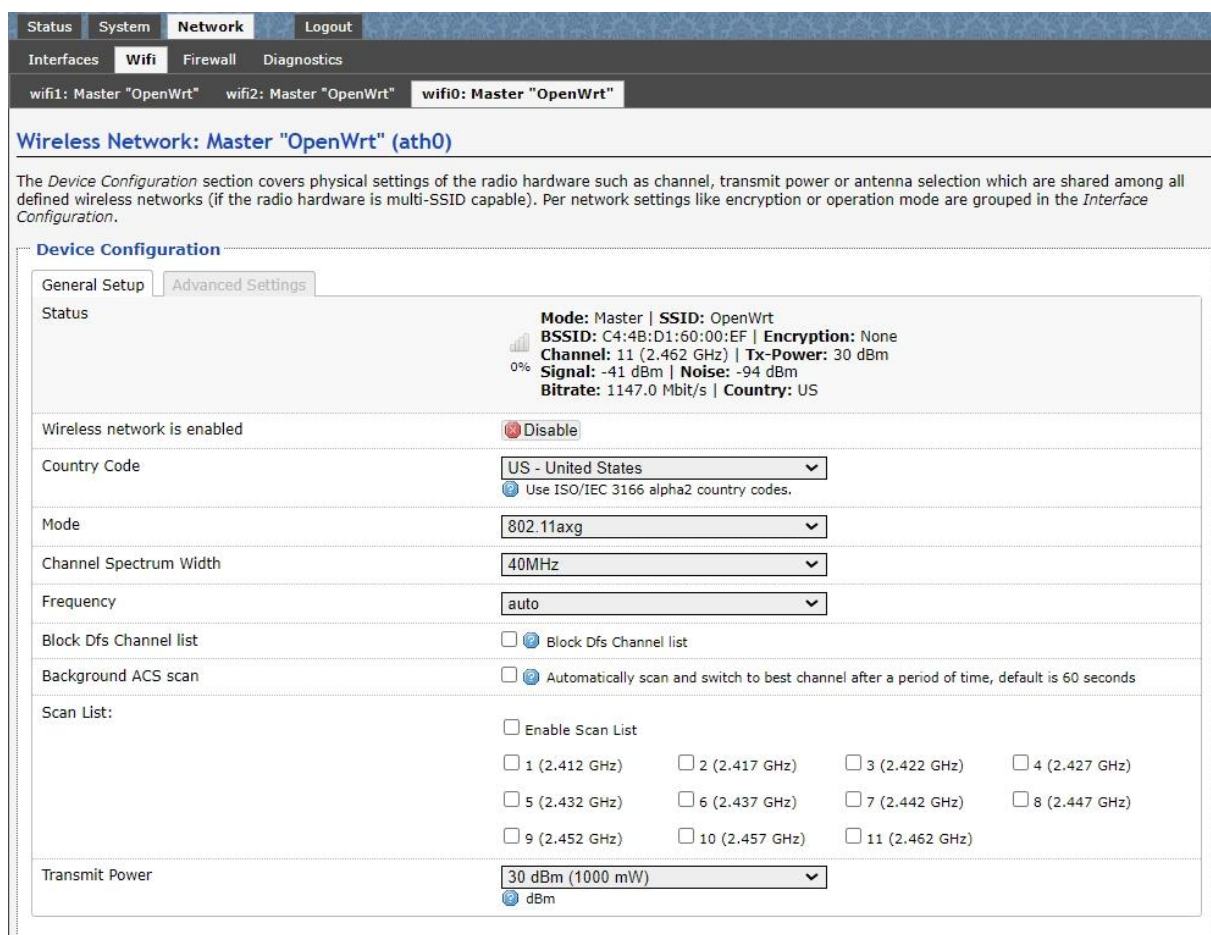
Associated Stations

Device	SSID	MAC-Address	IPv4-Address	Noise	Rssi	RX Rate	TX Rate	TxCCQ	Up Time
wifi0	OpenWrt	00:00:00:00:00:00	?	-94 dBm	0(0,0,0,0)	0.0 Mbit/s	0.0 Mbit/s	0%	5 mins 31 s
wifi1	OpenWrt	00:00:00:00:00:00	?	-94 dBm	0(0,0,0,0)	0.0 Mbit/s	0.0 Mbit/s	0%	5 mins 31 s
wifi2	OpenWrt	00:00:00:00:00:00	?	0 dBm	0(0,0,0,0)	0.0 Mbit/s	0.0 Mbit/s	0%	5 mins 31 s

IPQ5332 UI setting

The detail information show in the picture as below:

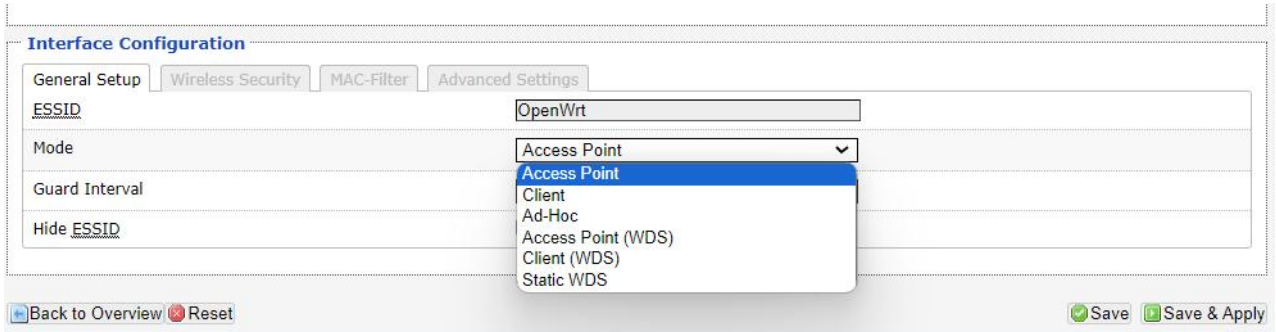
- Channel:for channel select;
 - Transmit Power:signal chain power setting; ESSID:for ID
 - Mode:it support 4 mode AP,AP(WDS),client,client(WDS)
- ### Wireless
- Security: for Encryption setting



The screenshot displays the OpenWrt web interface for configuring the wireless network. The navigation menu includes Status, System, Network, and Logout. Under the Network menu, the 'Wifi' tab is active, showing three wireless interfaces: wifi1, wifi2, and wifi0, all configured as Master 'OpenWrt'. The configuration page is titled 'Wireless Network: Master "OpenWrt" (ath0)'. A note explains that the 'Device Configuration' section covers physical settings like channel and power, while 'Interface Configuration' covers encryption and operation mode. The 'Device Configuration' section has two tabs: 'General Setup' (selected) and 'Advanced Settings'. The status shows 0% signal strength. Key settings include: Mode: Master; SSID: OpenWrt; BSSID: C4:4B:D1:60:00:EF; Encryption: None; Channel: 11 (2.462 GHz); Tx-Power: 30 dBm; Signal: -41 dBm; Noise: -94 dBm; Bitrate: 1147.0 Mbit/s; Country: US. The 'Wireless network is enabled' checkbox is checked, and the 'Disable' button is visible. The 'Country Code' is set to 'US - United States'. The 'Mode' is set to '802.11axg'. The 'Channel Spectrum Width' is set to '40MHz'. The 'Frequency' is set to 'auto'. The 'Block Dfs Channel list' and 'Background ACS scan' checkboxes are unchecked. The 'Scan List' section has an 'Enable Scan List' checkbox unchecked, and a grid of channel selection checkboxes (1-11) is shown. The 'Transmit Power' is set to '30 dBm (1000 mW)'.

IPQ5332 UI setting

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



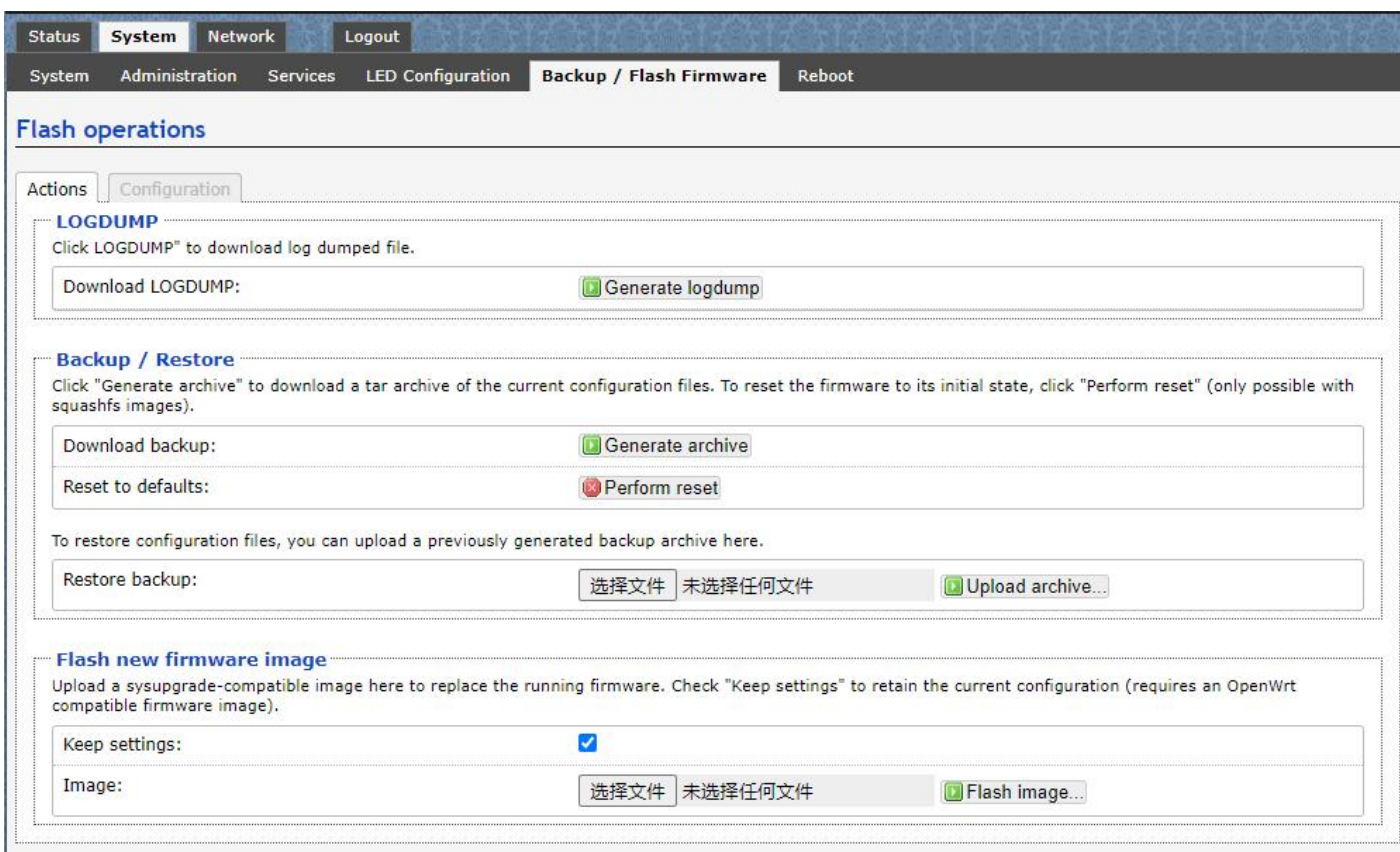
The screenshot shows the 'Interface Configuration' page in the Wallys UI. The 'General Setup' tab is active, and the 'Wireless Security' sub-tab is selected. The 'ESSID' field is set to 'OpenWrt'. The 'Mode' dropdown menu is open, showing options: 'Access Point', 'Client', 'Ad-Hoc', 'Access Point (WDS)', 'Client (WDS)', and 'Static WDS'. The 'Access Point' option is highlighted. At the bottom of the page, 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.

IPQ5332 UI setting

5. Backup archive

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



The screenshot shows the 'Backup / Flash Firmware' section of the Wallys IPQ5332 UI. The navigation menu includes Status, System, Network, Logout, System, Administration, Services, LED Configuration, Backup / Flash Firmware, and Reboot. The 'Flash operations' section is active, with sub-sections for LOGDUMP, Backup / Restore, and Flash new firmware image.

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

IPQ5332 UI setting

6.Update new image

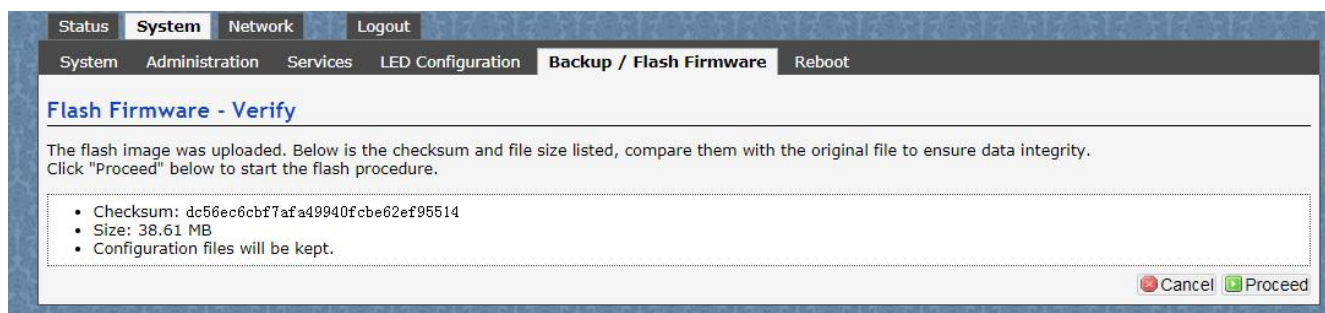
Login System->Backup/Flash Firmware;

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.



IPQ5332 UI setting

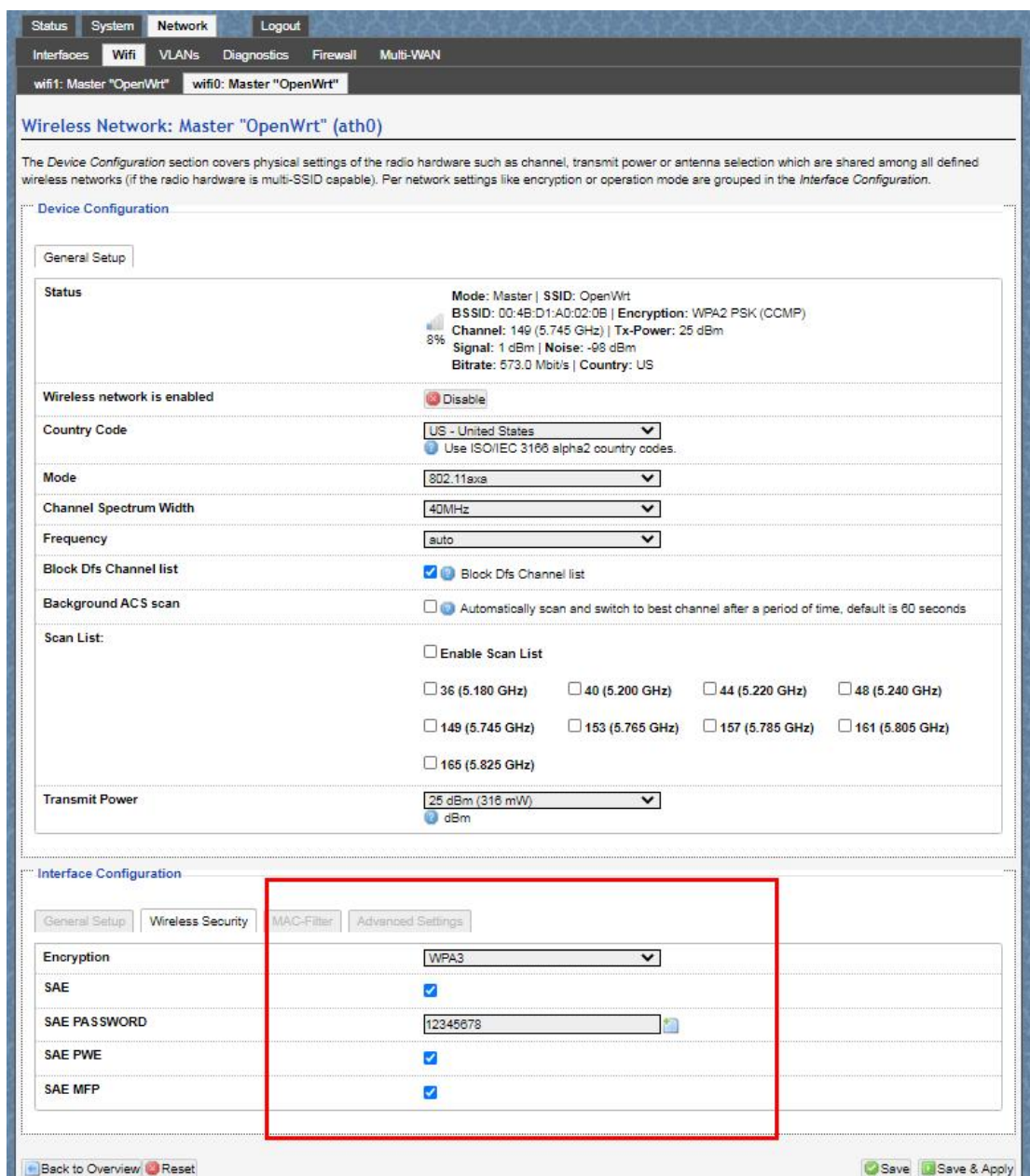
7. wireless encryption

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, with the 'Wireless Security' tab selected. The following settings are visible:

- Encryption:** WPA3
- SAE:**
- SAE PASSWORD:** 12345678
- SAE PWE:**
- SAE MFP:**

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

IPQ5332 UI setting

7. wireless encryption

Status System **Network** Logout

Interfaces **Wifi** Firewall Diagnostics

wifi1: Master "OpenWrt6666" wifi2: Master "OpenWrt" wifi0: Master "OpenWrt6666"

Wireless Overview

Generic Atheros 802.11abgnax (wifi0)
 Channel: 7 (2.442 GHz) | Bitrate: 1147 Mbit/s

0% **SSID:** OpenWrt66666 | **Mode:** Master
BSSID: C4:4B:D1:60:00:EF | **Encryption:** None

Scan Add Disable Edit Remove

Generic Atheros 802.11abnacax (wifi1)
 Channel: 124 (5.620 GHz) | Bitrate: ? Mbit/s

0% **SSID:** OpenWrt66666 | **Mode:** Master
BSSID: C4:4B:D1:70:01:A3 | **Encryption:** None

Scan Add Disable Edit Remove

Generic Atheros 802.11abax (wifi2)

0% **SSID:** OpenWrt | **Mode:** Master
Wireless is disabled or not associated

Scan Add Disable Edit Remove

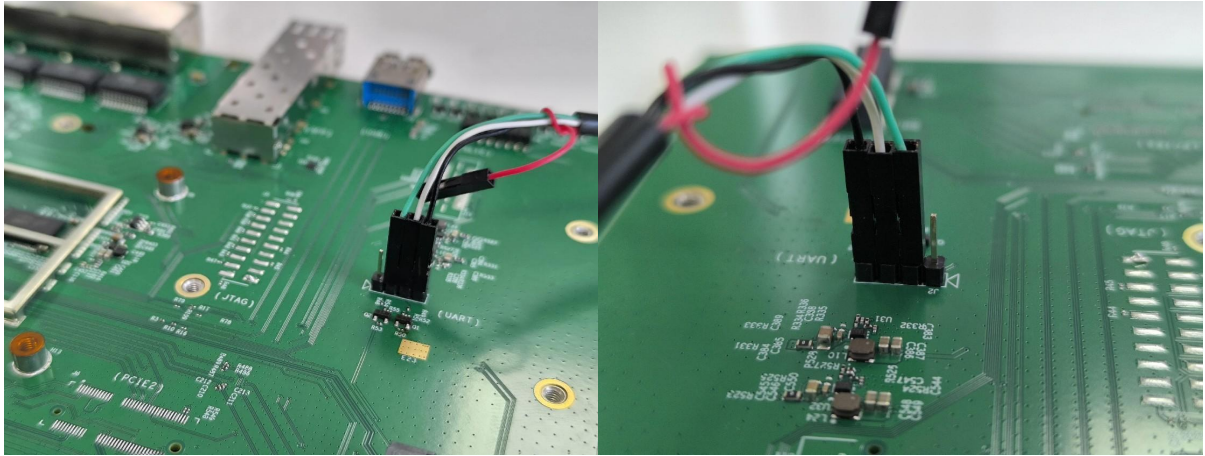
Associated Stations

Device	SSID	MAC-Address	IPv4-Address	Noise	Rssi	RX Rate	TX Rate	TxCCQ	Up Time
wifi0	OpenWrt66666	62:6B:4B:89:8E:8A	?	-94 dBm	26(0,0,0,0)	275.3 Mbit/s	154.9 Mbit/s	0%	9 s
wifi1	OpenWrt66666	62:6B:4B:89:8E:8A	?	-94 dBm	26(0,0,0,0)	275.3 Mbit/s	154.9 Mbit/s	0%	9 s
wifi2	OpenWrt	62:6B:4B:89:8E:8A	?	0 dBm	26(0,0,0,0)	275.3 Mbit/s	154.9 Mbit/s	0%	9 s

DR5332 UART configuration

1. Introduction

The photo below shows how to use the Uart for DR5332



DR5332 UART configuration

2. Device connect

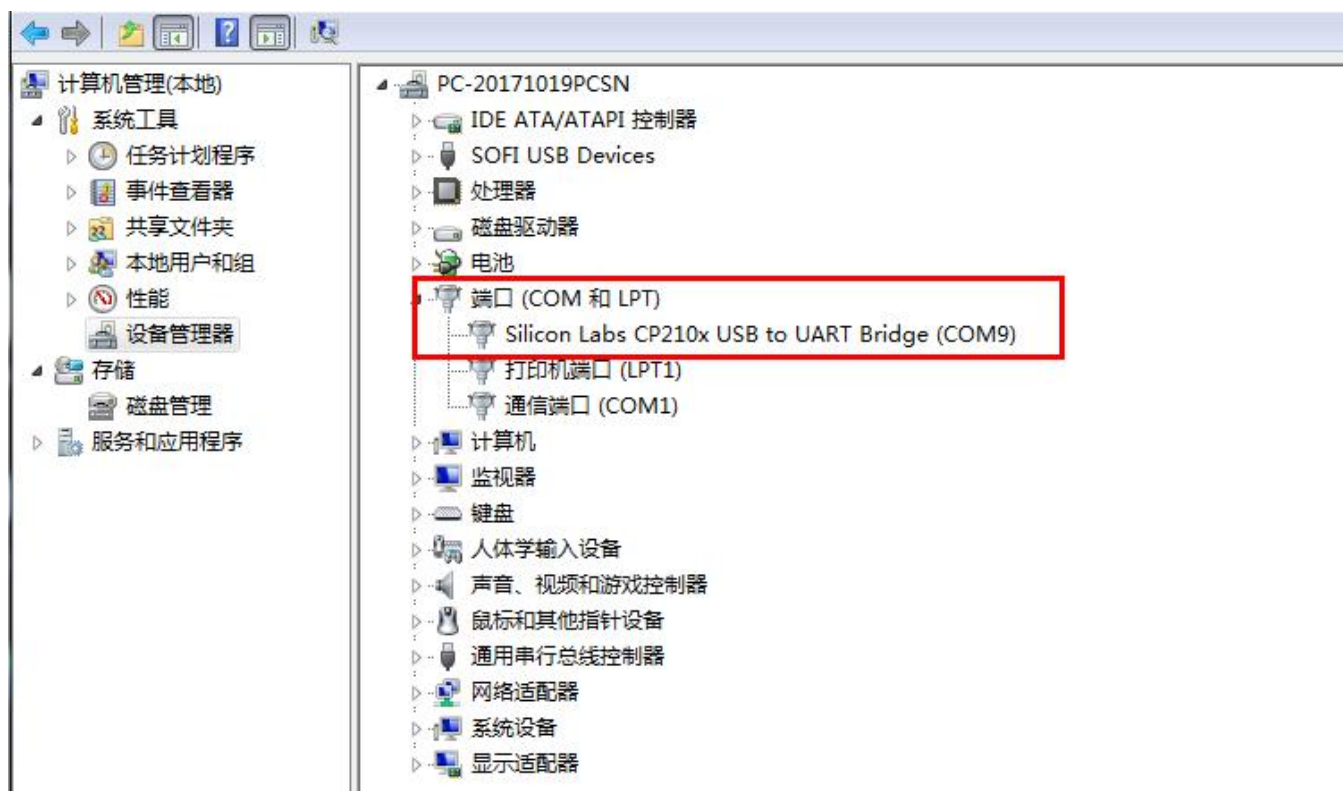
Step 1: Connect the cable to the DR5332

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



DR5332 UART configuration

2. Device connect

Step 3 Login with the software

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

```
BusyBox v1.35.0 (2023-12-15 03:59:36 UTC) built-in shell (ash)

MM          NM          MMMMMMMM          M          M
$MMMMM     MMMMM      MMMMMMMMMMMM      MMM      MMM
MMMMMMMMM   MM MMMMM.  MMMMMMMMMMMM:MMMMMM:  MMMM  MMMMM
MMMM= MMMMM  MMM  MMMM      MMMMM  MMMM  MMMMMMM  MMMM  MMMMM '
MMMM= MMMMM  MMMM  MM      MMMMM  MMMM  MMMM  MMMMMNMMMMM
MMMM= MMMM   MMMMM      MMMMM  MMMM  MMMM  MMMMMMMMM
MMMM= MMMM   MMMMMMM      MMMMM  MMMM  MMMM  MMMMMMMMM
MMMM= MMMM   MMMMMMM,  NMMMMMMMMM  MMMM  MMMM  MMMMMMMMMMMM
MMMM= MMMM   MMMMMMM  MMMMMMMMM  MMMM  MMMM  MMMM  MMMMMMM
MMMM= MMMM   MM  MMMM  MMMM      MMMM  MMMM  MMMM  MMMM
MMMMM$, ,MMMMM  MMMMM  MMMM  MMM  MMMM  MMMMM  MMMM  MMMM
MMMMMMMM:  MMMMMMM  M          MMMMMMMMMMMMM  MMMMMMM  MMMMMMM
MMMMMM     MMMMN   M          MMMMMMMMM      MMMM  MMMM
MMMMM      M          MMMMMMM  M          M
M

-----
For those about to rock... OpenWrt 19.07-SNAPSHOT, unknown
-----
root@OpenWrt:/# █
```

How to set up the card slot

4x4 single radio

```
setenv machid 8050e01
setenv bootargs 'console=ttyMSM0,115200n8
cnss2.enable_qcn9224_support=1 cnss2.bdf_pci2=0x0002
cnss2.bdf_pci3=0x0004 cnss2.enable_mlo_support=0'
saveenv
```

2x2 dual radio

```
setenv machid 8050e01
setenv bootargs 'console=ttyMSM0,115200n8
cnss2.enable_qcn9224_support=1 cnss2.bdf_pci2=0x1006
cnss2.bdf_pci3=0x1003 cnss2.enable_mlo_support=0'
saveenv
```

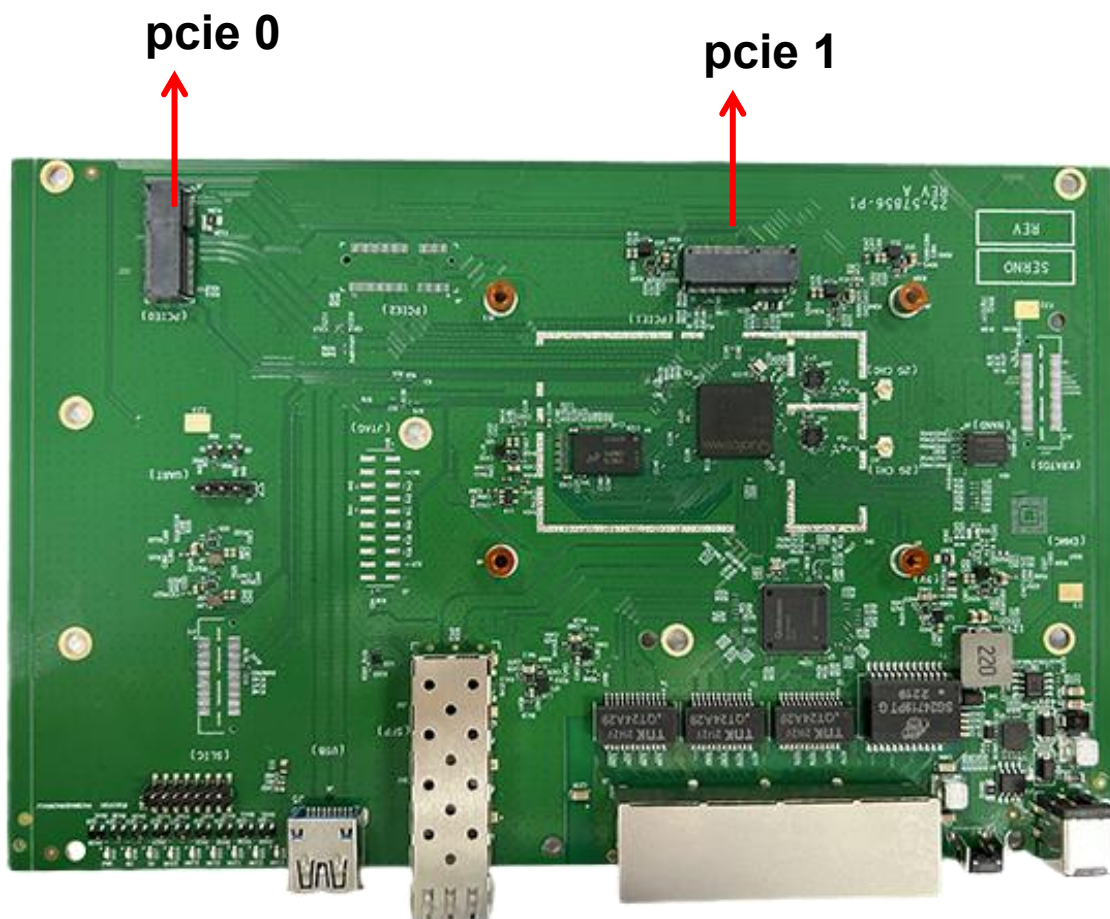
0002 represent DR9274-5G radio

0004 represent DR9274-6G radio

1006 represent DR9274-5G6G radio

1003 represent DR9274-2.4G5G radio

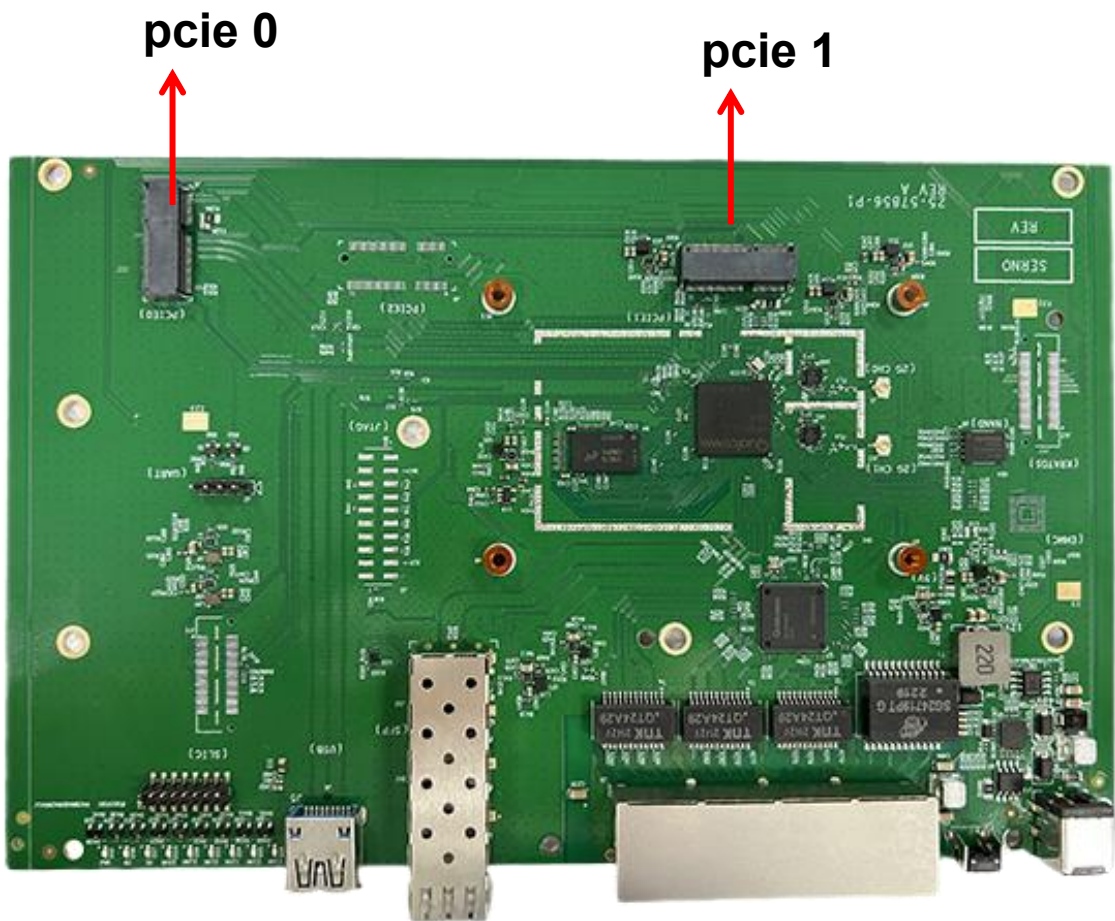
You can configure the DR9274 card slot 0-1 as desired



For example set one card

if you want **pcie 0** support DR9274-5G;
 you can under uboot
 enter `cnss2.enable_qcn9224_support=1`
`cnss2.bdf_pci0=0x0002 cnss2.enable_mlo_support=0'`
 than `saveenv`
 than `reset`.

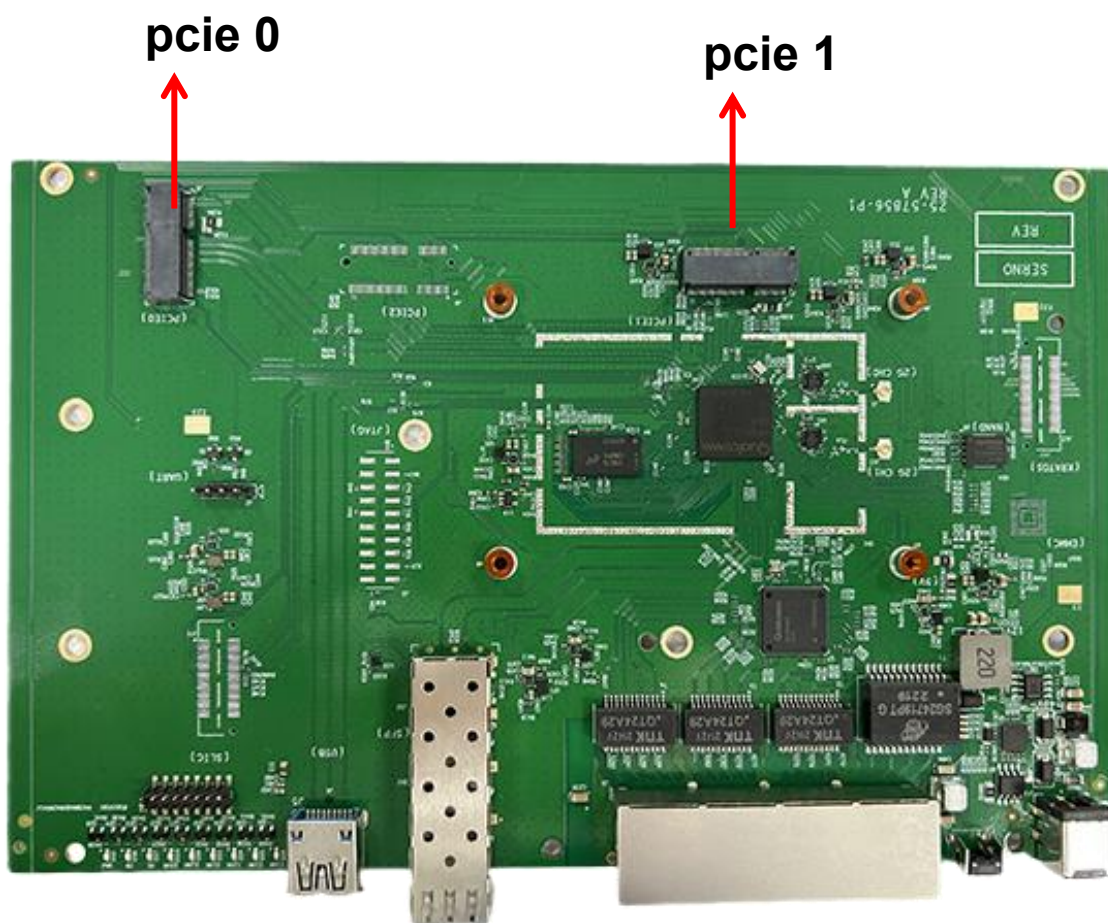
You can configure the DR9274 card slot 0-1 as desired



For example set one card

if you want **pcie 1** support DR9274-5G;
you can under uboot
enter `cnss2.enable_qcn9224_support=1`
`cnss2.bdf_pci1=0x0002 cnss2.enable_mlo_support=0'`
than `saveenv`
than `reset`.

You can configure the DR9274 card slot 0-1 as desired



For example set two card

if you want **pcie 1** support DR9274-5G;

pcie 0 support DR9274-6G;

you can under uboot

```
enter setenv bootargs 'console=ttyMSM0,115200n8
```

```
cnss2.enable_qcn9224_support=1
```

```
cnss2.bdf_pcie1=0x0002 cnss2.bdf_pcie0=0x0004
```

```
cnss2.enable_mlo_support=0'
```

than saveenv

than reset.



DR5332 USER MANUAL

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