



WALLYS DR9574 Communications WiFi Routerboard and Wifi Network User Manual

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DR9574 User Manual



1. IPQ9574 UI settings
2. DR9574 UART configuration
3. How to set up the card slot


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IPQ9574 UI setting

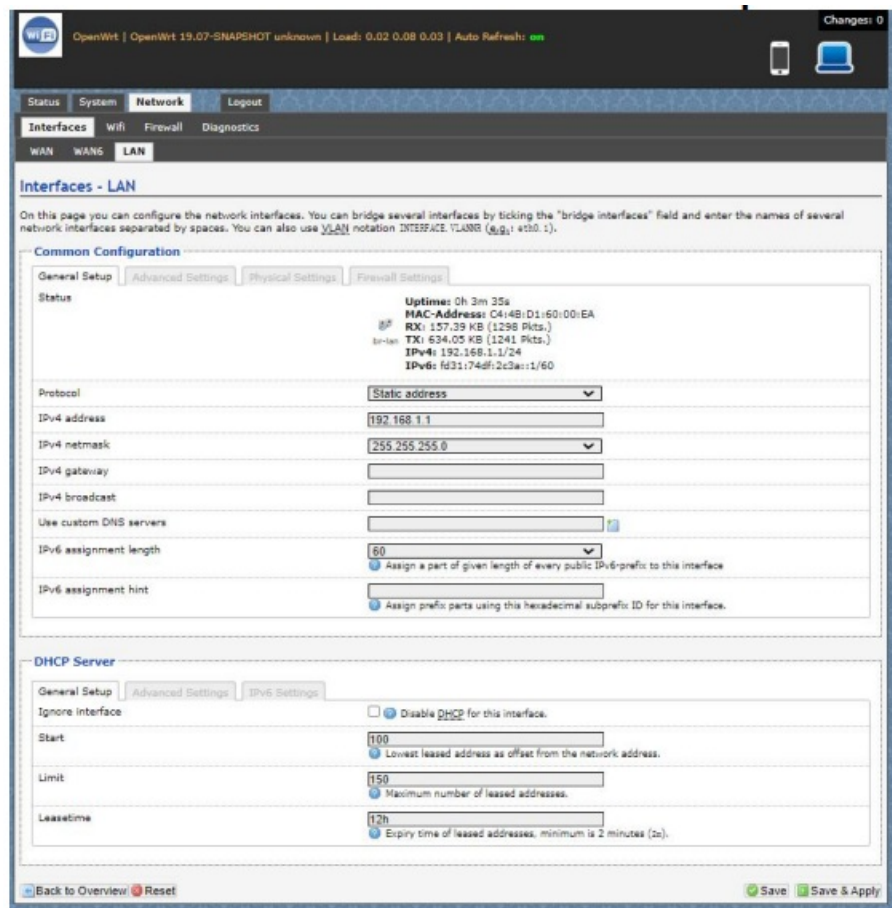
1. Input the IP 192.168.1.1 and login
2. Input the username “admin” password “password” then press the button “Login”



The screenshot shows the SuperWireless web interface. At the top, there is a status bar with the text "SuperWireless | FIRMWARE-2167-202208232026 unknown | Load: 0.01 0.10 0.11". Below this, the main heading is "Authorization Required". A message says "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 two buttons: "Reset" and "Login".

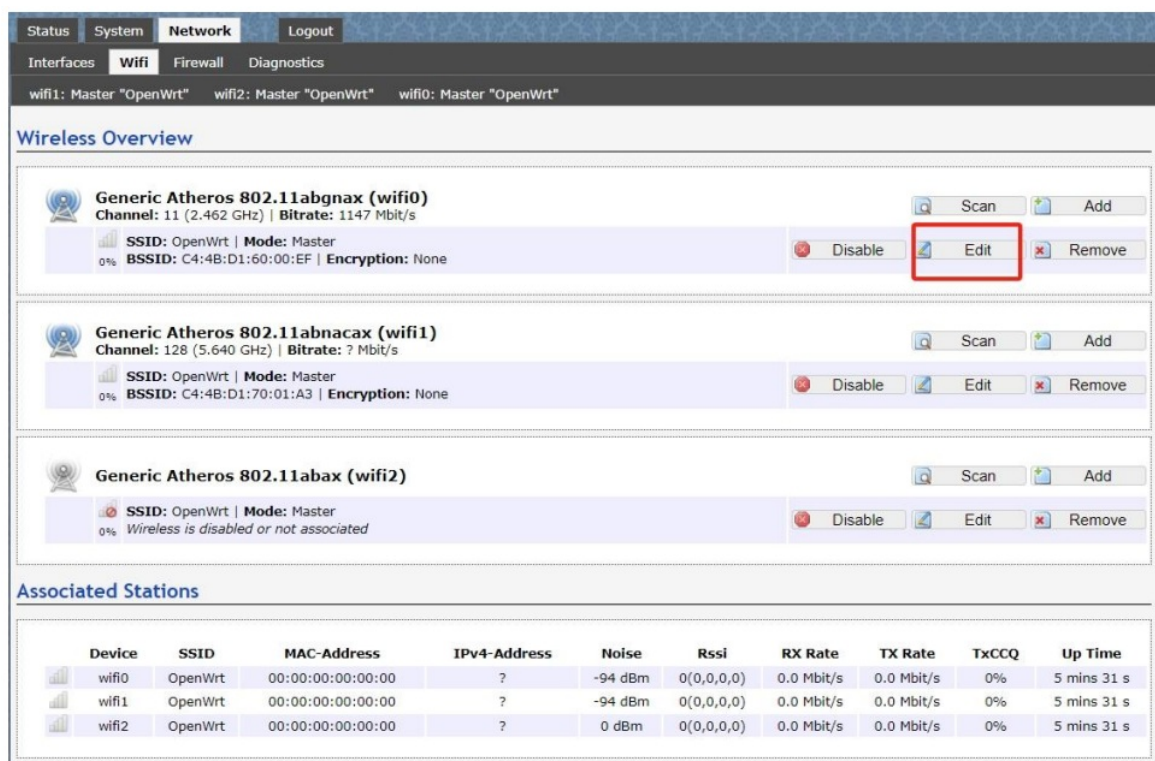
3. Network setting

- 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

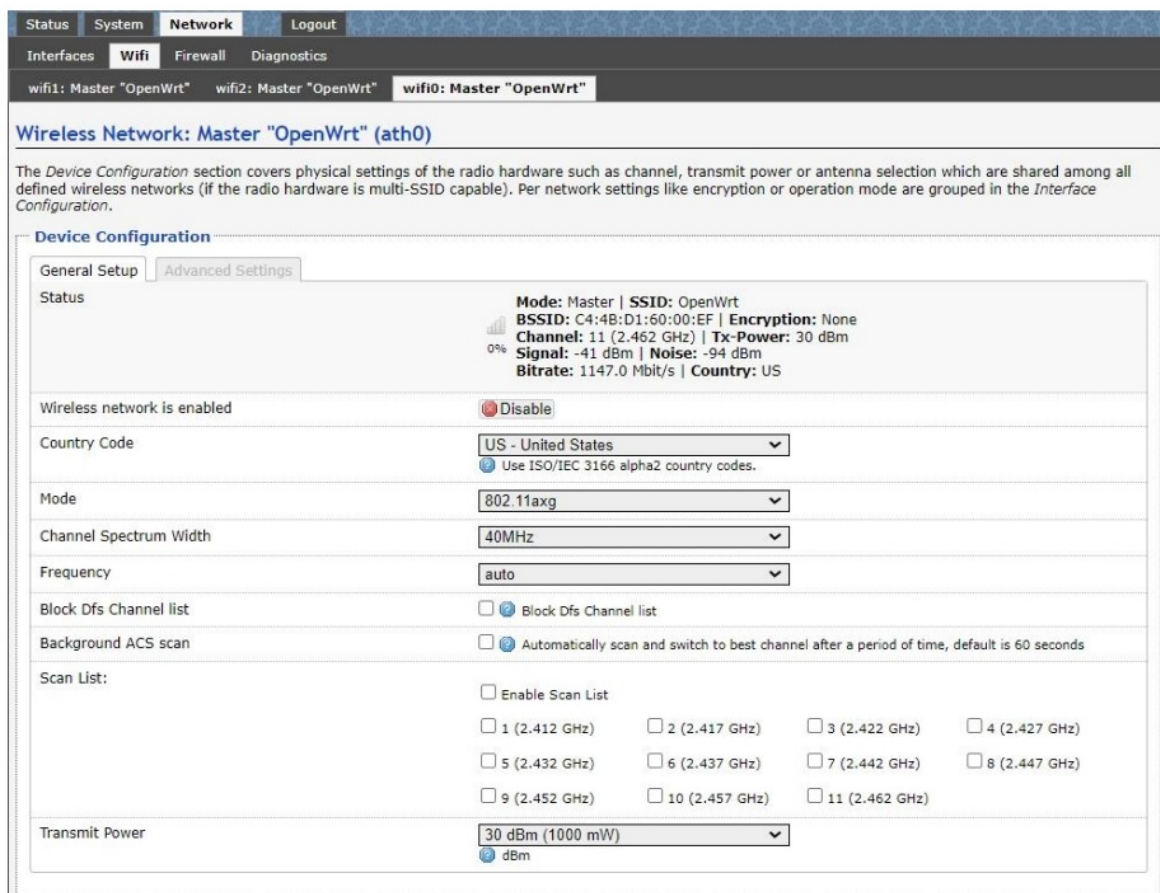
Login the path network->Interfaces->WIFI,Then choose wifi 1,we select the red marked as example,click the button “ Edit ”



The detail information show in the picture as below:

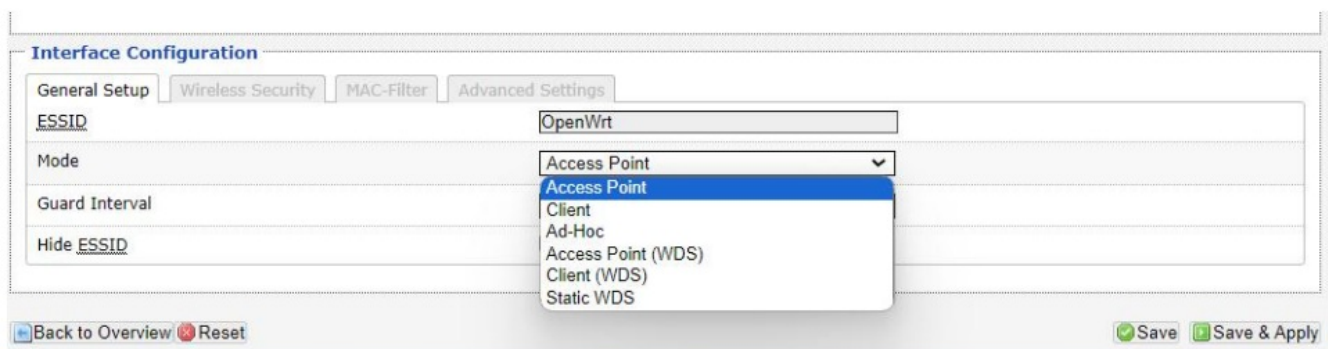
- Channel:for channel select;

- 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



The screenshot shows the OpenWrt web interface for configuring a wireless network. The top navigation bar includes 'Status', 'System', 'Network', and 'Logout'. Under 'Network', there are tabs for 'Interfaces', 'Wifi', 'Firewall', and 'Diagnostics'. The 'Wifi' tab is active, showing three wireless interfaces: 'wifi1: Master "OpenWrt"', 'wifi2: Master "OpenWrt"', and 'wifi0: Master "OpenWrt"'. The 'wifi0: Master "OpenWrt"' interface is selected, and the 'Device Configuration' section is expanded. The 'General Setup' tab is active, showing the status of the wireless network and various configuration options. The status bar indicates '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. 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' checkbox is unchecked. The 'Background ACS scan' checkbox is unchecked. The 'Scan List' section has the 'Enable Scan List' checkbox unchecked, and a grid of frequency channels (1-11) is displayed. The 'Transmit Power' is set to '30 dBm (1000 mW)'. The 'Advanced Settings' tab is also visible, showing options for 'ESSID', 'Mode', 'Guard Interval', and 'Hide ESSID'.

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' section for the 'wifi0' interface. The 'General Setup' tab is active, showing the 'ESSID' as 'OpenWrt'. The 'Mode' dropdown menu is open, showing options: 'Access Point', 'Client', 'Ad-Hoc', 'Access Point (WDS)', 'Client (WDS)', and 'Static WDS'. The 'Guard Interval' is set to '200ns'. The 'Hide ESSID' checkbox is unchecked. At the bottom, 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

[Status](#)
[System](#)
[Network](#)
[Logout](#)

[System](#)
[Administration](#)
[Services](#)
[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.

[Status](#)
[System](#)
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[System](#)
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[Backup / Flash Firmware](#)
[Reboot](#)

Flash Firmware - Verify

The flash image was uploaded. Below is the checksum and file size listed, compare them with the original file to ensure data integrity. Click "Proceed" below to start the flash procedure.

- Checksum: dc56ec6cbf7afa49940fcbe62ef95514
- Size: 38.61 MB
- Configuration files will be kept.

[Cancel](#)
[Proceed](#)

7. wireless encryption

Login System->Network/wifi/Edit->Choose 5G radioCountry Coad choose " US " click the button"Wireless Security" Then choose "WPA3" and set password

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

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: -90 dBm
Bitrate: 673.0 Mbit/s | Country: US

Wireless network is enabled ☐ Disable

Country Code
Use ISO/IEC 3166 alpha2 country codes.

Mode

Channel Spectrum Width

Frequency

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)
☐ 166 (5.825 GHz)

Transmit Power
dBm

Interface Configuration

General Setup Wireless Security MAC Filter Advanced Settings

Encryption

SAE ☒

SAE PASSWORD

SAE PWE ☒

SAE MFP ☒

[Back to Overview](#) [Reset](#) [Save](#) [Save & Apply](#)

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 SSID: OpenWrt6666 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 SSID: OpenWrt6666 Mode: Master BSSID: C4:4B:D1:70:01:A3 Encryption: None	Scan Add Disable Edit Remove
Generic Atheros 802.11abax (wifi2) SSID: OpenWrt Mode: Master Wireless is disabled or not associated	Scan Add Disable Edit Remove

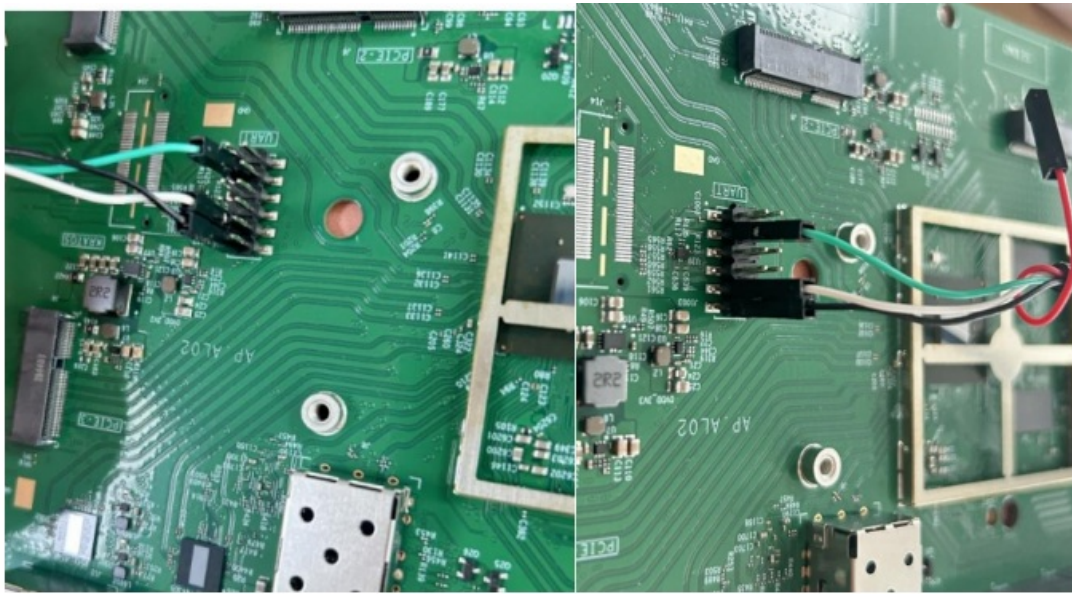
Associated Stations

Device	SSID	MAC-Address	IPv4-Address	Noise	Rssi	RX Rate	TX Rate	TxCCQ	Up Time
wifi0	OpenWrt6666	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	OpenWrt6666	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

DR9574 UART configuration

1. Introduction

The photo below shows how to use the Uart for DR9574



2. Device connect

Step 1: Connect the cable to the DR9574As 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 toGreen cable VCC don't use.

Step 2: Check the Com number on the PCConnect 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



2. Device connect

Step 3 Login with the softwareYou 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      MMMMMMM      M      M
      $MMMMM      MMMMM      MMMMMMMMMMMMM      MMM      MMM
      MMMMMMMMM      MM MMMMM.      MMMMM:MMMMMM:      MMMM      MMMMM
MMMM= MMMMMMMM      MM      MMMM      MMMMM      MMMM      MMMMMMM      MMMM      MMMMM '
MMMM=      MMMMM      MMMM      MM      MMMMM      MMMM      MMMM      MMMMMNMMMMMM
MMMM=      MMMM      MMMMM      MMMMM      MMMM      MMMM      MMMMMMMMM
MMMM=      MMMM      MMMMMM      MMMMM      MMMM      MMMM      MMMMMMMMMMM
MMMM=      MMMM      MMMMM,      NMMMMMMMMMM      MMMM      MMMM      MMMMMMMMMMMMM
MMMM=      MMMM      MMMMMM      MMMMMMMMM      MMMM      MMMM      MMMM      MMMMM
MMMM=      MMMM      MM      MMMM      MMMM      MMMM      MMMM      MMMM      MMMM
MMMM$ ,MMMMM      MMMMM      MMMM      MMM      MMMM      MMMM      MMMM      MMMM
      MMMMMMM:      MMMMMM      M      MMMMMMMMMMMMM      MMMMMMM      MMMMMMM
      MMMMMM      MMMMN      M      MMMMMMMMM      MMMM      MMMM
      MMMM      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

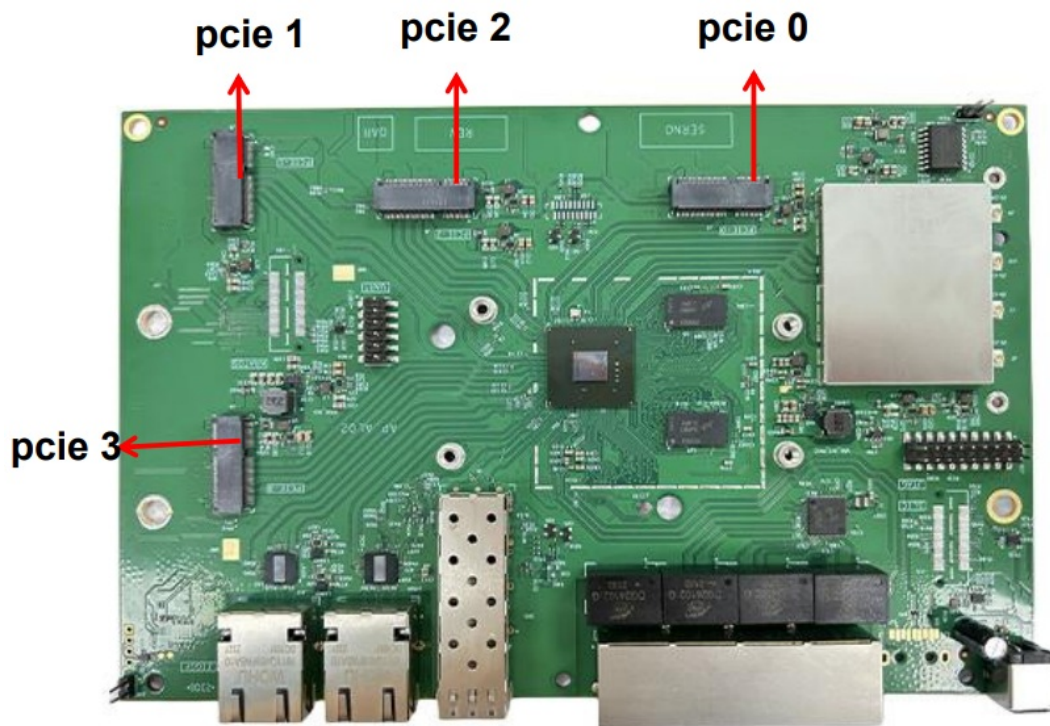
```
setenv machid 8050e01
setenv bootargs 'console=ttyMSM0,115200n8 cnss2.enable_qcn9224_support=1 cnss2.bdf_pci2=0x0002
cnss2.bdf_pci3=0x0004 cnss2.enable_mlo_support=0'saveenv
```

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
```

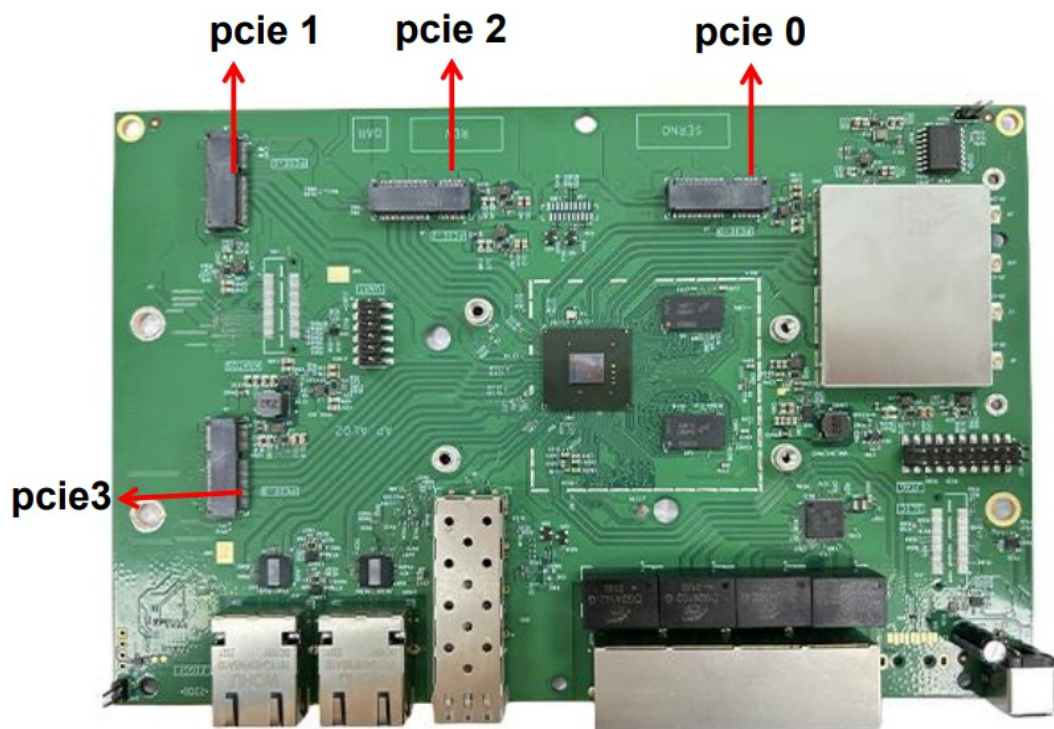
- 0002 represent DR9274-5G radio
- 0004 represent DR9274-6G radio
- 1006 represent DR9274-5G6G radio
- 1003 represent DR9274-2.4G5G radio

You can configure the DR9274 card slot 0-3 as desired



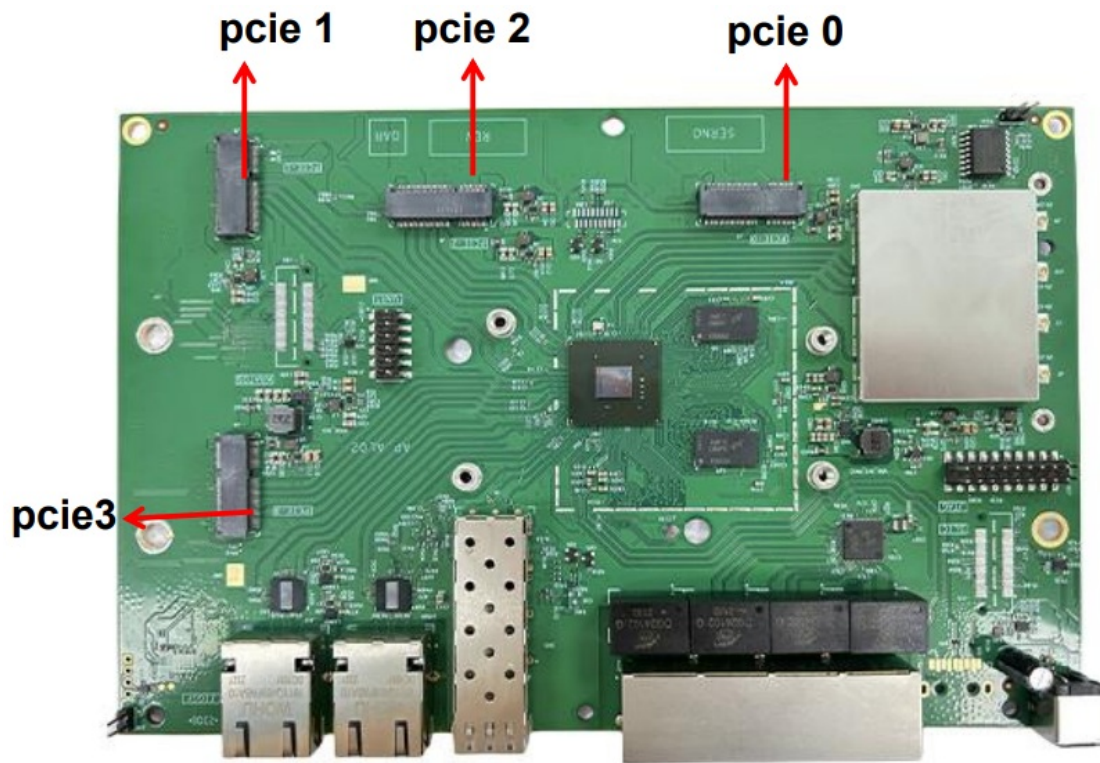
For example set one card

if you want pcie 0 support DR9274-5G;you can under uboot enter `cnss2.enable_qcn9224_support=1 cnss2.bdf_pcie0=0x0002 cnss2.enable_mlo_support=0` than saveenv than reset.



For example set one card

if you want pcie 2 support DR9274-5G;you can under uboot enter `cnss2.enable_qcn9224_support=1 cnss2.bdf_pcie2=0x0002 cnss2.enable_mlo_support=0` than saveenv than reset.



For example set two card

if you want pcie 3 support DR9274-5G;

pcie 2 support DR9274-6G; you can under ubootenter setenv bootargs 'console=ttyMSM0,115200n8

cnss2.enable_qcn9224_support=1 cnss2.bdf_pcie3=0x0002 cnss2.bdf_pcie2=0x0004

cnss2.enable_mlo_support=0'than saveenv than reset.



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Documents / Resources

	<p>WALLYS DR9574 Communications WiFi Routerboard and Wifi Network [pdf] User Manual DR9574 Communications WiFi Routerboard and Wifi Network, DR9574, Communications WiFi Routerboard and Wifi Network, WiFi Routerboard and Wifi Network, Routerboard and Wifi Network, Wifi Network</p>
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References

-  [Wallys 802.11ax, wifi 6, IPQ4029,IPQ4019,IPQ6018,IPQ6000.Router board, wireless card.Access Point-Wallys Communications \(Suzhou \) Co., LTD](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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