DR9574 USER MANUAL

1.IPQ9574 UI settings2.DR9574 UART configuration3.How to set up the card slot



DR9574

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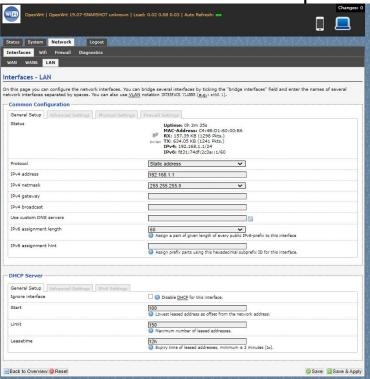
1.Input the IP 192.168.1.1 and login

2.Input the username "admin" password "password" then press the button "Login"

SuperWireless FIRMWARE-2	2167-202208232026 unknown Load: 0.01 0.10 0.11	
thorization Required		
ase enter your username and passw	ord.	
ase enter your username and passw Username	@ admin	

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 "

Ge Cha 0% Ge 6e	eneric Atheros & hannel: 128 (5.640 (SSID: OpenWrt BSSID: C4:4B:D1	:60:00:EF Encryption: N B02.11abnacax (wifi J SHz) Bitrate: ? Mbit/s	1)				isable	Edit Scan Edit	Remo Add Remo
Cha Cha 0% 0% Ge	SSID: OpenWrt 6 BSSID: C4:4B:D1	GHz) Bitrate: ? Mbit/s Mode: Master				8 D			Add
Se 🖉	6 BSSID: C4:4B:D1		lone			O D	isable 🛛 🖉	Edit	Remo
	onoric Athonos (
	eneric Atheros a	302.11abax (wifi2)					۵	Scan	Add
	SSID: OpenWrt Wireless is disable					Ø D	isable	Edit	Remo
ociated	d Stations								
Devi	vice SSID	MAC-Address	IPv4-Address	Noise	Rssi	RX Rate	TX Rate	TxCCQ	Up Tim
d wifi		00:00:00:00:00:00	?	-94 dBm	0(0,0,0,0)	0.0 Mbit/s	0.0 Mbit/s	0%	5 mins 3
wifi	ifi1 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 3





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

vifi1: Master "OpenWrt" wifi2: Master "OpenWrt"	wifi0: Master "OpenWrt"			
ireless Network: Master "OpenWrt"	(ath0)			
e Device Configuration section covers physical set ined wireless networks (if the radio hardware is n nfiguration. Device Configuration	tings of the radio hardware such as			
General Setup Advanced Settings				
Status	BSSID: C4:4B Channel: 11 () 0% Signal: -41 dB	SSID : OpenWrt :D1:60:00:EF Encrypt 2.462 GHz) Tx-Power m Noise: -94 dBm 0 Mbit/s Country: US		
Wireless network is enabled	🕲 Disable			
Country Code	US - United States Use ISO/IEC 3166	alpha2 country codes.]	
Mode	802.11axg	~]	
Channel Spectrum Width	40MHz	~]	
Frequency	auto	~]	
Block Dfs Channel list	🗌 🙆 Block Dfs Chanr	nel list		
Background ACS scan	🗌 😰 Automatically s	can and switch to best char	nnel after a period of time	, default is 60 seconds
Scan List:	🗌 Enable Scan List			
	🗌 1 (2.412 GHz)	2 (2.417 GHz)	3 (2.422 GHz)	4 (2.427 GHz)
	□ 5 (2.432 GHz)	🗌 6 (2.437 GHz)	🗌 7 (2.442 GHz)	🗌 8 (2.447 GHz)
	9 (2.452 GHz)	🗌 10 (2.457 GHz)	🗌 11 (2.462 GHz)	



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

General Setup	Wireless Security	MAC-Filter	Advanced Settings		
ESSID			OpenWrt		
Mode			Access Point	~	
Guard Interval			Access Point Client		
Hide <u>ESSID</u>			Ad-Hoc Access Point (WDS)		
			Client (WDS) Static WDS		

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

stem Administration Services LEE	onfiguration Backup / Flash Firmware Reboot	
sh operations		
ions		
LOGDUMP		
Click LOGDUMP" to download log dumped f		
Download LOGDUMP:	Generate logdump	
Backup / Restore Click "Generate archive" to download a tar squashfs images). Download backup:	hive of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible	: with
Reset to defaults:	Perform reset	
To restore configuration files, you can uploa	previously generated backup archive here.	
Restore backup:	选择文件 未选择任何文件	
Flash new firmware image Upload a sysupgrade-compatible image her compatible firmware image).	o replace the running firmware. Check "Keep settings" to retain the current configuration (requires an OpenWrt	
Keep settings:		



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 " $\sqrt{$ "

wifi1: Master "OpenWrt" wifi0: Master "OpenWr	
ireless Network: Master "OpenWrt"	(ath0)
	ngs of the radio hardware such as channel, transmit power or antenna selection which are shared among all defin capable). Per network settings like encryption or operation mode are grouped in the <i>Interface Configuration</i> .
General Setup	
Status	Mode: Master SSID: OpenWrt BSSID: 00:48:D1:A0:02:08 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	3 Disable
Country Code	US - United States
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). ▼
Interface Configuration	
General Setup Wireless Security MAC-Filte	r Advanced Settings
Encryption	WPA3 V
SAE	
SAE PASSWORD	12345678
SAE PWE	
SAE MFP	
VIDENCE SERVER	



7. wireless encryption

R	Generic Atheros 802.11abgnax (wifi0) Channel: 7 (2.442 GHz) Bitrate: 1147 Mbit/s					Q	Scan		Add
	BSSID: OpenWrt66666 Mode: Master 0% BSSID: C4:4B:D1:60:00:EF Encryption: No	ne		8	Disable		Edit	×	Remove
2	Generic Atheros 802.11abnacax (wifi1 Channel: 124 (5.620 GHz) Bitrate: ? Mbit/s)					Scan		Add
	SSID: OpenWrt6666 Mode: Master 0% BSSID: C4:4B:D1:70:01:A3 Encryption: No	ne		0	Disable		Edit		Remove
R	Generic Atheros 802.11abax (wifi2)						Scan		Add
	SSID: OpenWrt Mode: Master Wireless is disabled or not associated				Disable		Edit	×	Remove

-94 dBm

?

0 dBm

26(0,0,0,0)

275.3 Mbit/s

26(0,0,0,0) 275.3 Mbit/s

154.9 Mbit/s

154.9 Mbit/s

0%

0%

9 s

9 s

wifi1

wifi2

OpenWrt6666

OpenWrt

62:6B:4B:89:8E:8A

62:6B:4B:89:8E:8A



DR9574 UART configuration

1. Introduction

The photo below shows how to use the Uart for DR9574





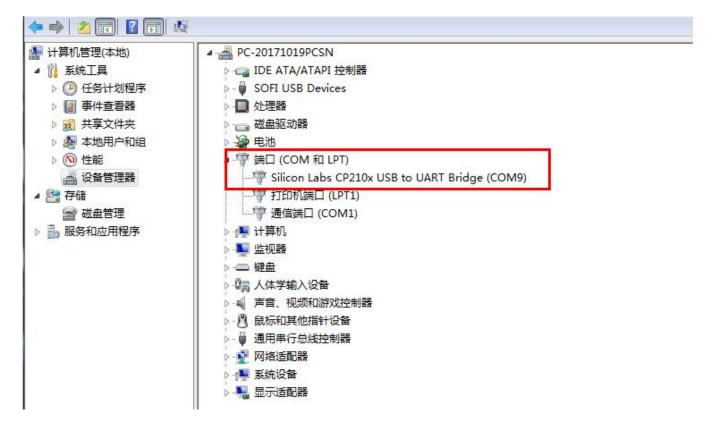
DR9574 UART configuration

2. Device connect

Step 1:Connect the cable to the DR9574 As the picture as above,the sequence of the signal in the UART Connector:GND TX RX VCC. And we need use GND conn

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





DR9574 UART configuration

2. Device connect

Step 3 Login with the software You can use putty,Xshell or some others,enjoy it.

			NM		MMMM	MMM	М	М
ŞMN	IMMM	M	MMMM		MMMMMMMMM		MMM	MMM
MMMM	MMMMM	MM	MMMMM .		MMMMM :	MMMMMM:	MMMM	MMMMM
=MMMM	MMMMMM	MMM	MMMM	MMMMM	MMMM	MMMMMM	MMMM	MMMMM '
-MMMM	MMMMM	MMMM	MM	MMMMM	MMMM	MMMM	MMMMNI	MMMMM
MMMM = MMMM		MMMMM		MMMMM	MMMM	MMMM	MMMMM	MMM
MMMM = MMMM		MMM	MMM	MMMMM	MMMM	MMMM	MMMMM	MMMM
MMMM = MMMM		M	MMMM,	NMMMMMMM	MMMM	MMMM	MMMMM	MMMMM
IMMM= MMMM		MMMMMM		MMMMMMM	MMMM	MMMM	MMMM	MMMMMM
-MMMM	MMMM	MM	MMMM	MMMM	MMMM	MMMM	MMMM	MMMM
1MMM\$, MMMMM	MMMM	M MMMM	MMM	MMMM	MMMMM	MMMM	MMMM
MMMMMMM :		MM	MMMMMMM M		MMMMMMMMMMM		MMMMMMM	MMMMMMM
MMMMMM		MMMMN		М	MMMMMMMM		MMMM	MMMM
N	MMMM	М			MMMMMMM		М	М
	М							



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

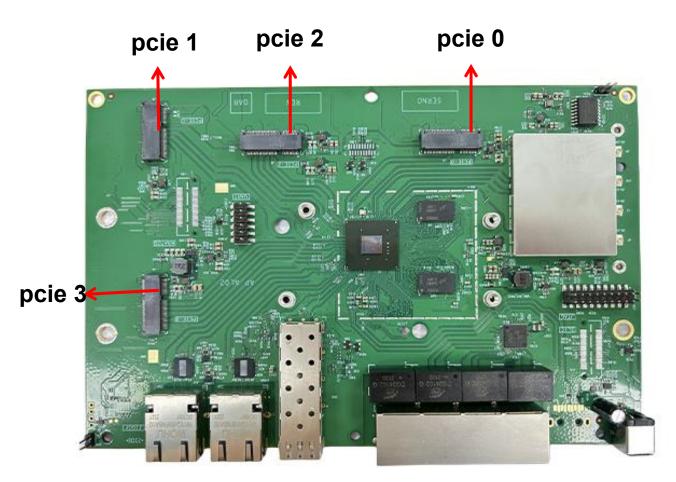
setenv machid 8050e01 setenv bootargs 'console=ttyMSM0,115200n8 cnss2.enable_qcn9224_support=1 cnss2.bdf_pci2=0x1006 cnss2.bdf_pci3=0x1003 cnss2.enable_mlo_support=0' saveenv

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

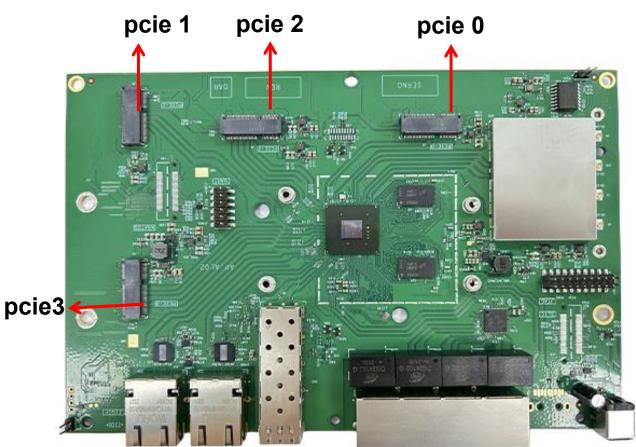


For example set one card

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



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

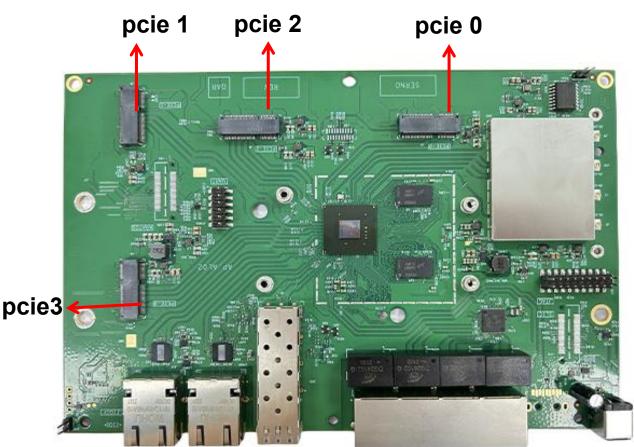


For example set one card

if you want pcie 2 support DR9274-5G; you can under uboot enter cnss2.enable_qcn9224_support=1 cnss2.bdf_pci2=0x0002 cnss2.enable_mlo_support=0' than saveenv than reset.



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



For example set two card

if you want pcie 3 support DR9274-5G; pcie 2 support DR9274-6G; you can under uboot enter setenv bootargs 'console=ttyMSM0,115200n8 cnss2.enable_qcn9224_support=1 cnss2.bdf_pci3=0x0002 cnss2.bdf_pci2=0x0004 cnss2.enable_mlo_support=0' than saveenv than reset.

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