DR5322 USER MANUAL

1.IPQ5322 UI settings2.DR5322 UART configuration3.How to set up the card slot



DR5322

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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	167-202208232026 unknown Load: 0.01 0.10 0.11	Ī 💻
Authorization Required Please enter your username and passwo	rd.	
Username	🔒 admin	
Password	<i>[?</i>	
L		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"







4. Wireless setting

Login the path network->Interfaces->WIFI,

Then choose wifi 1, we select the red marked as example, click the button " Edit "

Status	System	Network	Logout							
Interface	es Wifi	Firewall	Diagnostics							
wifi1: M	aster "Ope	- nWrt" wifi2	: Master "OpenWrt" wifi(): Master "OpenWrt"						
Wireles	ss Over	view								
	Generi	c Atheros 8 1: 11 (2.462 G	302.11abgnax (wifi0) Hz) Bitrate: 1147 Mbit/s						Scan	Add 🚺
	SSI	D: OpenWrt	Mode: Master				Dic:	ablo 🚺	Edit	Pomovo
	0% BS S	SID: C4:4B:D1	:60:00:EF Encryption: No	one			UIS:	able	Eait	Keniove
	Generi	c Atheros 8	802.11ahnacax (wifi1)					_	
X	Channe	: 128 (5.640 0	GHz) Bitrate: ? Mbit/s	.,				Q	Scan	Add
	SSI SSI	D: OpenWrt	Mode: Master				O Disa	able 🛛 🖉	Edit	Remove
	0% 853	SID: C4:4B:DI	:70:01:A3 Encryption: N	one						
(9)	Generi	c Atheros 8	302.11abax (wifi2)					a	Scan	Add
1995										
	0% Win	D: Openwrt eless is disable	d or not associated				Ø Disa	able 🛛 🌌	Edit	Remove
Accocia	tod Sta	tions								
ASSUCIO	ited 5ta									
									T 600	
	wifio	OpenWrt	MAC-Address	1PV4-Address	Noise	0(0,0,0,0)	0.0 Mbit/c	0.0 Mbit/c	IXCCQ	Up Time
al	wifi1	OpenWrt	00:00:00:00:00:00:00	?	-94 dBm	0(0,0,0,0)	0.0 Mbit/s	0.0 Mbit/s	0%	5 mins 31 5
-	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
Land		spanne		•	0 0011	-(0/0/0/0)				





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

atus System <mark>Network</mark> Logout	f leta leta leta ta le	tal letal letal le	in the transfer	ĸŧ≓⊃ĸŧ≓⊃⊷t∞t
ifi1: Master "OpenWrt" wifi2: Master "OpenWrt"	wifi0: Master "OpenWrt"			
e Device Configuration section covers physical sett ined wireless networks (if the radio hardware is m nfiguration.	tings of the radio hardware such as ulti-SSID capable). Per network se	s channel, transmit powe attings like encryption or	r or antenna selection operation mode are gr	which are shared among ouped in the <i>Interface</i>
Device Configuration				
General Setup Advanced Settings	AL 12 (21) 2 1			
Status	Mode: Master BSSID: C4:4B Channel: 11 (% Signal: -41 dB Bitrate: 1147.	SSID: OpenWrt :D1:60:00:EF Encrypi 2.462 GHz) Tx-Power 3m Noise: -94 dBm 0 Mbit/s Country: US	t ion: None : 30 dBm	
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 Chan	nel list		
Background ACS scan	🗌 🙆 Automatically s	can and switch to best char	nnel after a period of time	e, 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)	
Transmit Power	30 dBm (1000 mW)) 🗸]	
	@ dBm			



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	
SSID	OpenWrt	
1ode	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 LE	nfiguration Backup / Flash Firmware Reboot
ions Configuration	
LOGDUMP Click LOGDUMP" to download log dumped	
Download LOGDUMP:	Generate logdump
uick "Generate archive" to download a ta squashfs images). Download backup:	Inve of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible with
Reset to defaults:	Berform reset
To restore configuration files, you can uplo	previously generated backup archive here.
Restore backup:	选择文件 未选择任何文件 III Upload archive
Flash new firmware image Upload a sysupgrade-compatible image he compatible firmware image).	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 " $\sqrt{$ "

white master open wit	
reless Network: Master "OpenWrt'	" (ath0)
 Device Configuration section covers physical sett aless networks (if the radio hardware is multi-SSID Device Configuration 	ings 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 Interface Configuration.
General Setup	
Status	Mode: Master SSID: OpenWrt BSSID: 00-48:D1:40:02:08 Encryption: WPA2 PSK (CCMP) Channel: 149 (5.745 GHz) Tx-Power: 25 dBm Sistaal: 1 dBm (Noise: -98 dBm Bitrate: 573.0 Mbit/s Country: US
Wireless network is enabled	Disable
Country Code	US - United States US - Use ISO/IEC 3186 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 San GHz) GHz GHz
	☐ 165 (5.825 GHz)
Transmit Power	25 dBm (318 mW) ▼
nterface Configuration	
General Setup Wireless Security MAC-Filt	er Advanced Settings
Encryption	WPA3 V
SAE	
SAE PASSWORD	12345678
SAE PWE	
SAE MFP	. 🗹 –



7. wireless encryption

2	Generic Atheros 802.11abgnax (wifi0) Channel: 7 (2.442 GHz) Bitrate: 1147 Mbit/s					Q	Scan		Add
	SSID: OpenWrt66666 Mode: Master 0% BSSID: C4:48:D1:60:00:EF Encryption: None	e		۲	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: C4:48:D1:70:01:A3 Encryption: Non	e		0	Disable		Edit		Remove
R	Generic Atheros 802.11abax (wifi2)						Scan		Add
	SSID: OpenWrt Mode: Master Wireless is disabled or not associated			0	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



DR5322 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 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





DR5322 UART configuration

2. Device connect

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

BusyBo	ox v1.3	5.0 (20	23-12-1	5 03:59:36	UTC) bu	ilt-in :	shell (a	sh)
MM		N	M		MMMMMMM		М	М
ŞMMMMM		MM	MMM		MMMMMMMMMM		MMM	MMM
MMMM	MMMMM	MM M	MMMM .		MMMMM :	MMMMMM:	MMMM	MMMMM
MMMM=	MMMMMM	MMM	MMMM	MMMMM	MMMM	MMMMMM	MMMM	MMMMM '
MMMM=	MMMMM	MMMM	MM	MMMMM	MMMM	MMMM	MMMMN	MMMMM
MMMM=	MMMM	MMMMM	1	MMMMM	MMMM	MMMM	MMMMMMM	
MMMM=	MMMM	MMMM	MM	MMMMM	MMMM	MMMM	MMMMMMMM	
MMMM=	MMMM	MM	MMM,	NMMMMMMM	MMMM	MMMM	MMMMMMMMMM	
MMMM=	MMMM	Μ	MMMMM	MMMMMMM	MMMM	MMMM	MMMM	MMMMMM
MMMM=	MMMM	MM	MMMM	MMMM	MMMM	MMMM	MMMM	MMMM
MMMM\$, MMMMM	MMMMM	MMMM	MMM	MMMM	MMMMM	MMMM	MMMM
MMMM	IMMM:	MMM	MMMM	М	MMMMMM	MMMMMM	MMMMMMM	MMMMMMM
MM	MMMMM	MM	MMN	М	MMMMM	MMMM	MMMM	MMMM
P	MMMM		М		MMMMMMM		М	М
	М							
FOI	c those	apout	to rock	Openwrt	. 19.07-	SNAPSHO.	r, unkno	WI
root@c	penWrt	:/#						



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_pci1=0x0002 cnss2.bdf_pci0=0x0004 cnss2.enable_mlo_support=0' than saveenv than reset.

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