DR6018 User manual

CONFIDENTIAL

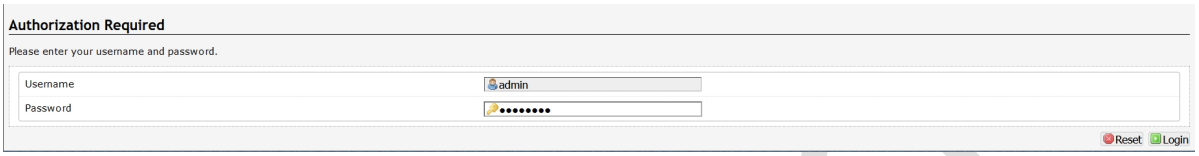
TABLES OF CONTENT

■Product System ☐Other (x)

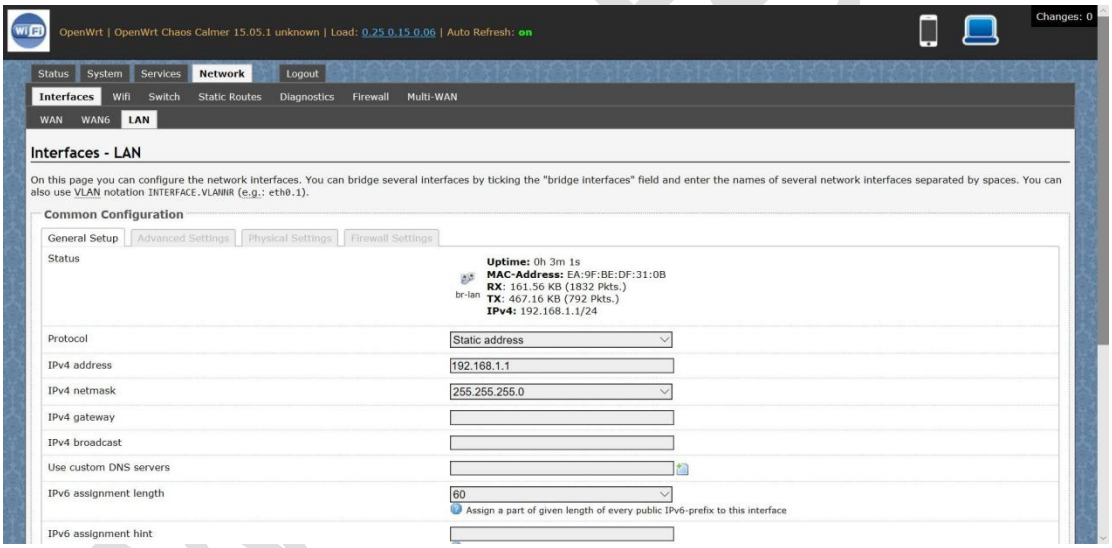
Subject:	Part No:	REV: 0.1
	Doc No:	Page 3 OF 11
Project Code:	Effective Date:	
Project Name:		

IPQ60xx UI setting

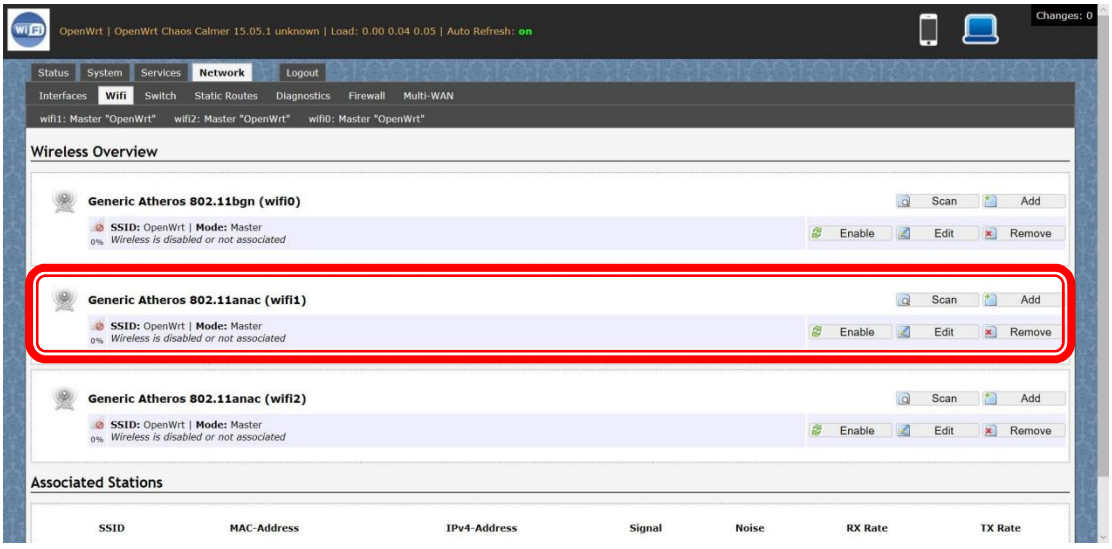
1. input the IP：192.168.1.1 and login；
2. Input the username：admin；password：password，then press the button “Login”，



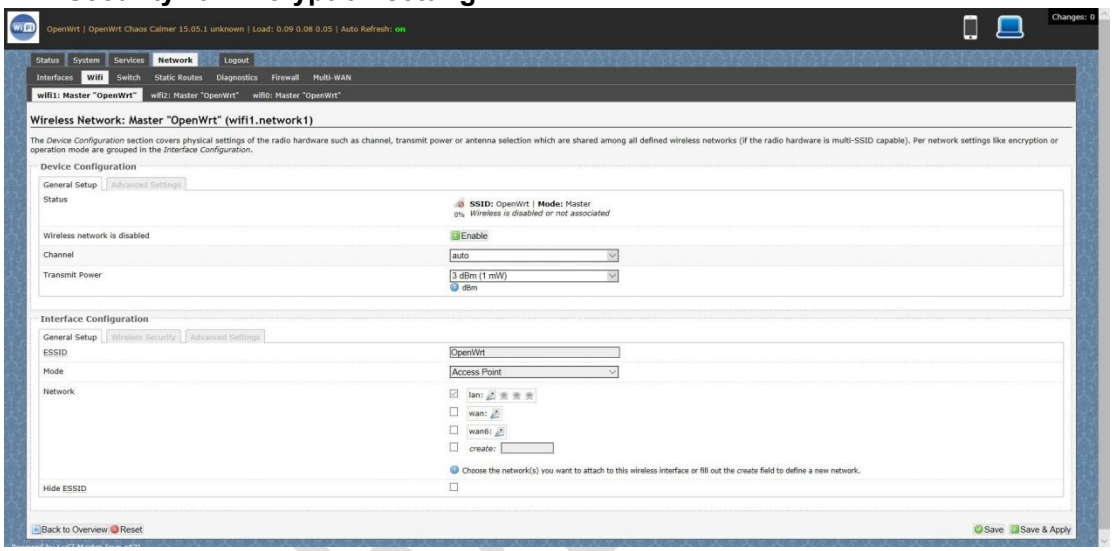
3. network setting
   - IP Setting: setting IP in the path “network->Interfaces->LAN->IPV4 address”
   - DHCP setting:DHCP and other protocol setting in the path network->Interfaces->LAN->protocol”



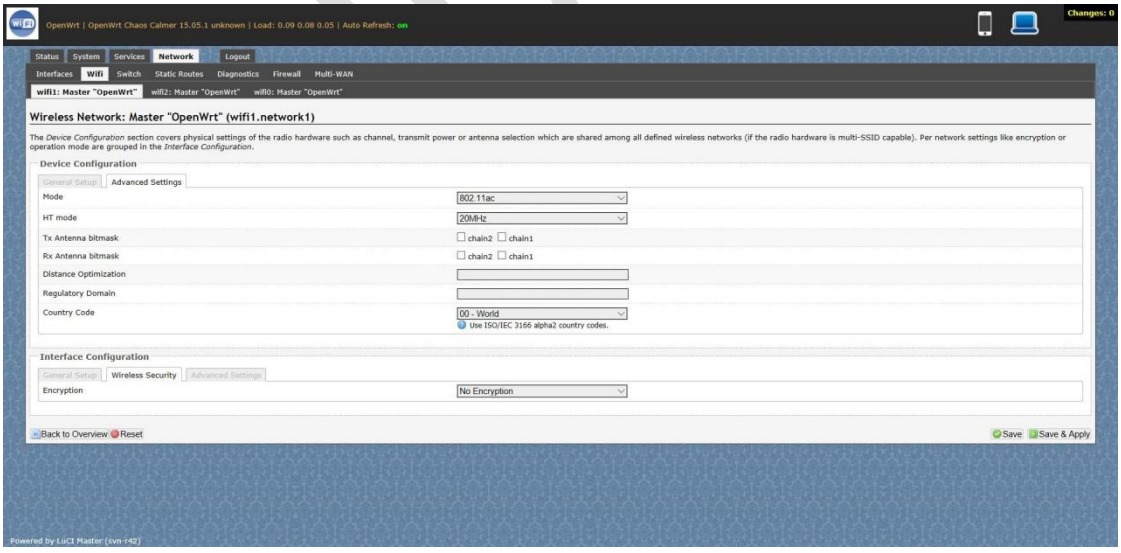
4. wireless setting
   - login the path network->Interfaces->WIFI, then choose one wifi,we select the red marked as example,click the button ‘Edit’



- **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**



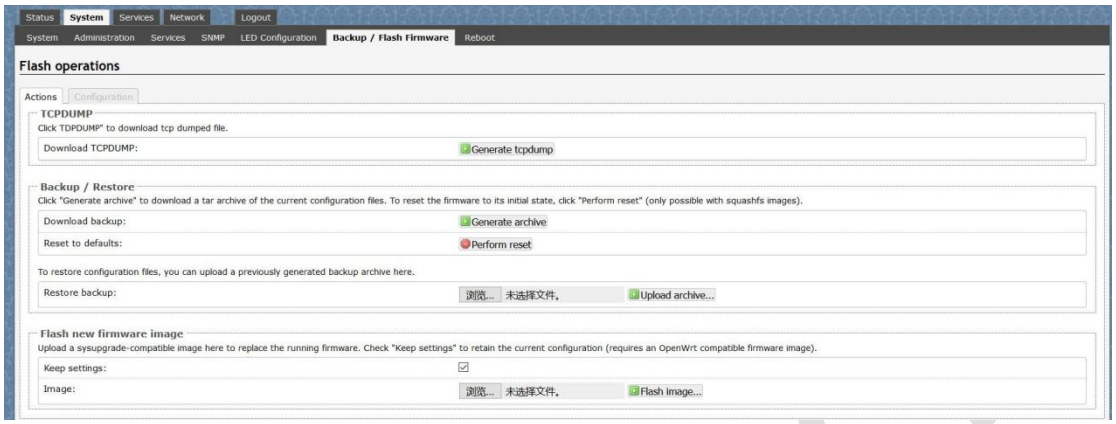
IN Advance setting you can select which chain do you need,which BW do you need and so on



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



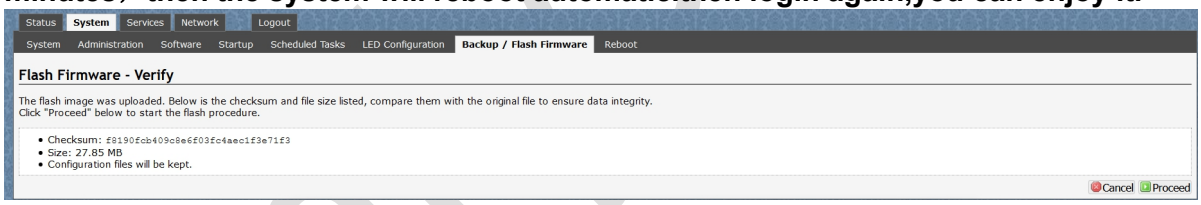
6. update new image

Login System->Backup/Flash Firmware;

Then click the button “浏览”，choose your image,

Then click the button “flash image”

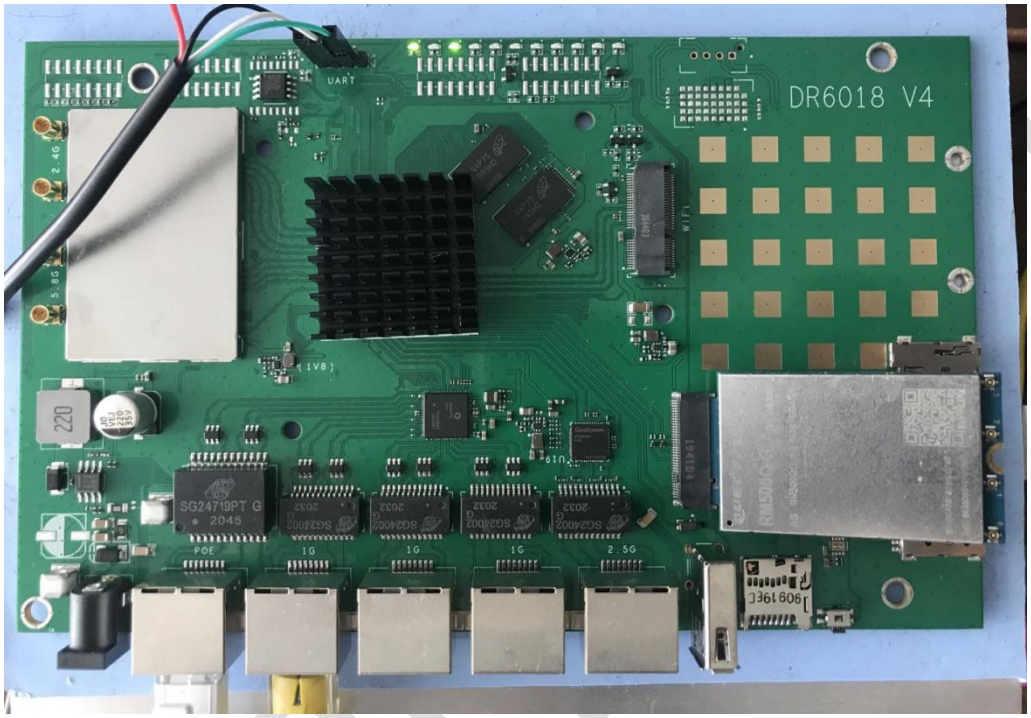
Then click the button “Proceed”，warning don't power off，wait for about three minutes，then the system will reboot automatic.then login again,you can enjoy it.



DR6010 V04 UART configuration

1. Induction

That is show how to use the Uart for DR6018 V4



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.

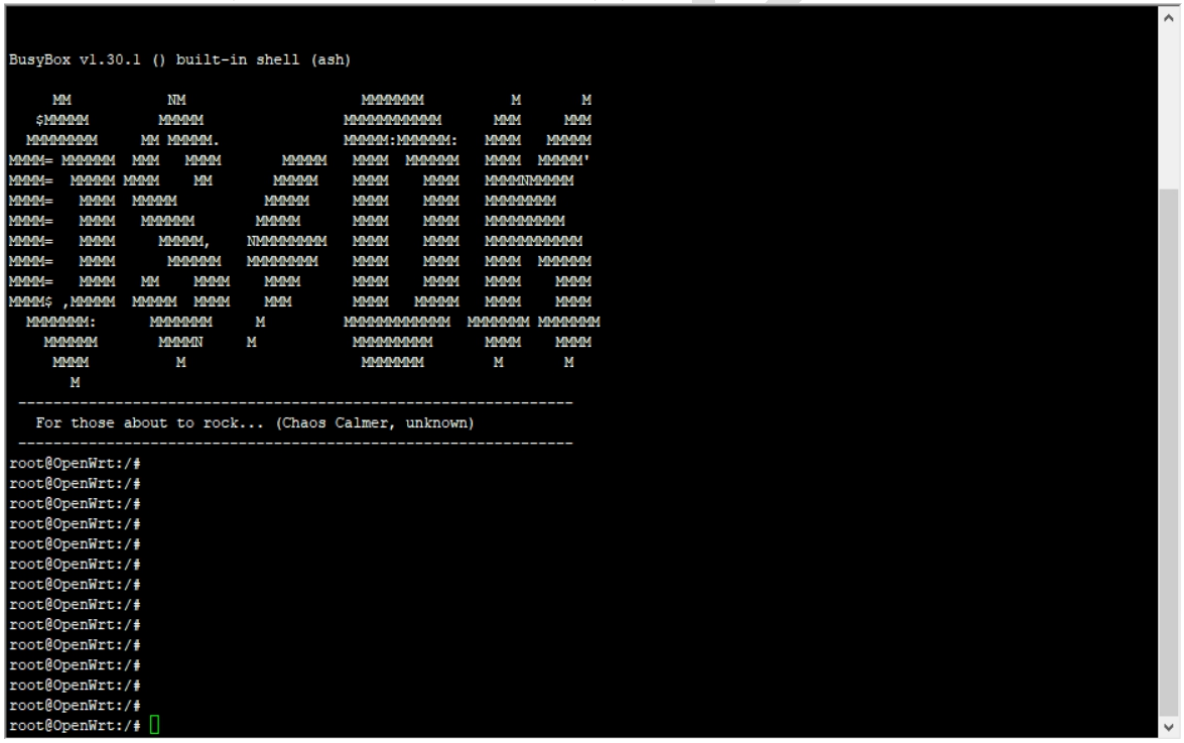
Step 2:Check the Com number on the PC

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

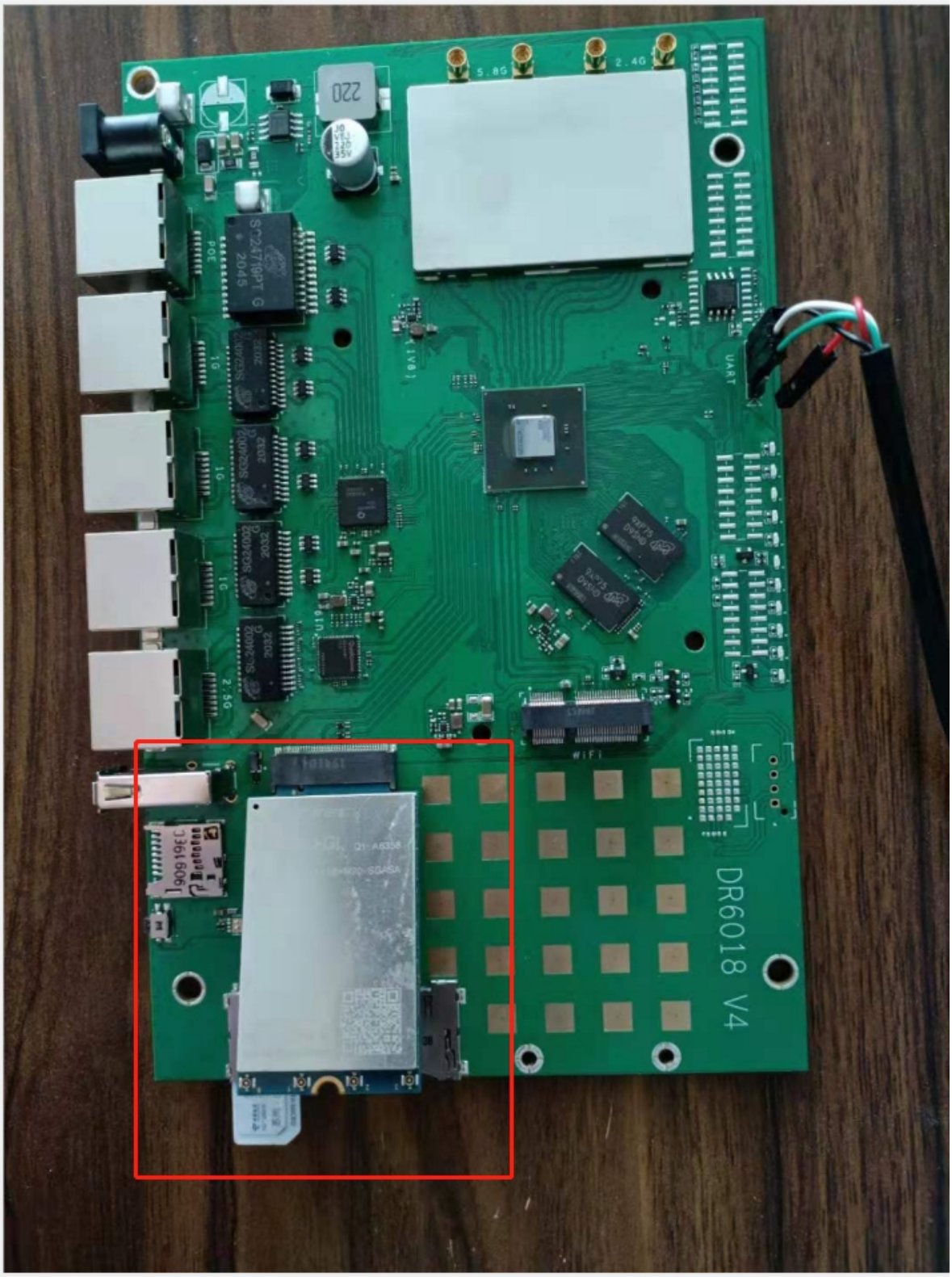
Step 3 login with the software

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

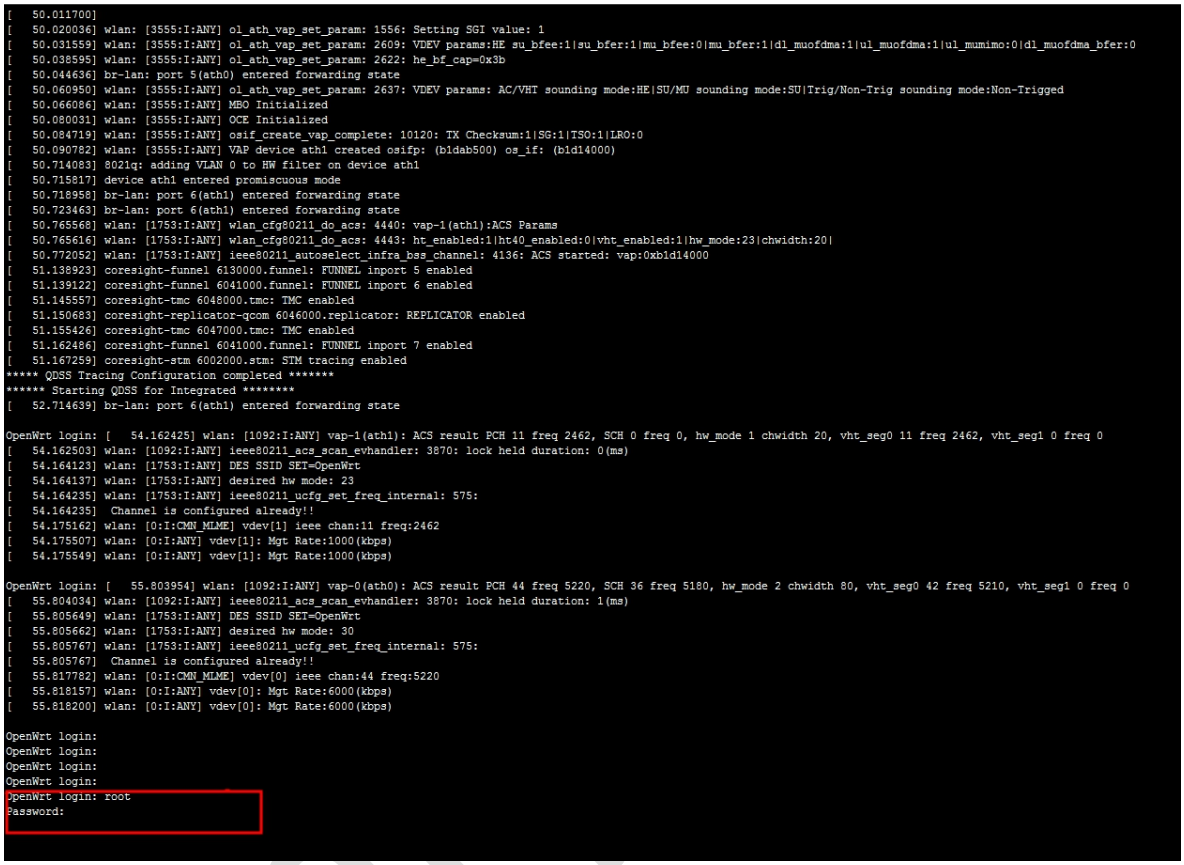


IPQ60xx 5G card setting

1. Place the quectel 5G module and SIM card correctly in the board as below picture.



2. Connect the board by UART localhost and login : root , Password: asdf1234



3.check whether find the 5G module，

Print the command :ifconfig -a

if we can see usb0 which is indicate that the new 5G/LTE module is detected.

```
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:247 errors:0 dropped:0 overruns:0 frame:0
          TX packets:247 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:19676 (19.2 KiB)  TX bytes:19676 (19.2 KiB)

miireg    Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          [NO FLAGS]  MTU:0  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

sit0      Link encap:IPv6-in-IPv4
          NOARP  MTU:1480  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

soc0      Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          [NO FLAGS]  MTU:0  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

teql0     Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          NOARP  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:100
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

usb0      Link encap:Ethernet  HWaddr 02:50:F4:00:00:00
          NOARP  MTU:1500  Metric:1
          RX packets:2 errors:0 dropped:0 overruns:0 frame:0
          TX packets:2 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:612 (612.0 B)  TX bytes:672 (672.0 B)

wifi0     Link encap:UNSPEC  HWaddr 00-03-7F-12-B9-63-00-37-00-00-00-00-00-00-00-00
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:636 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:2699
          RX bytes:0 (0.0 B)  TX bytes:397032 (387.7 KiB)

wifi1     Link encap:UNSPEC  HWaddr 00-03-7F-12-FD-47-00-37-00-00-00-00-00-00-00-00
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:636 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:2699
          RX bytes:0 (0.0 B)  TX bytes:397032 (387.7 KiB)
```

4.Check whether the SIM card can work.

Print the command: quectel-CM , if it shows as below and we also can see that SIMstatus: SIM-Ready,it is ok.

```
root@OpenWrt:~# quectel-CM
[03-02_09:31:36:686] Quectel_QConnectManager_Linux_V1.6.0.15
[03-02_09:31:36:687] Find /sys/bus/usb/devices/1-1 idVendor=0x2c7c idProduct=0x800, bus=0x001, dev=0x002
[03-02_09:31:36:691] Auto find qmichannel = /dev/qcqmi0
[03-02_09:31:36:691] Auto find usbnet_adapter = usb0
[03-02_09:31:36:691] netcard driver = GobiNet, driver version = V1.6.2.9
[03-02_09:31:36:691] qmap_mode = 1, qmap_version = 9, qmap_size = 31744, muxid = 0x81, qmap_netcard = usb0
[03-02_09:31:36:691] Modem works in QMI mode
[03-02_09:31:36:703] Get clientWDS = 7
[03-02_09:31:36:735] Get clientDMS = 8
[03-02_09:31:36:767] Get clientNAS = 9
[03-02_09:31:36:798] Get clientUIM = 10
[03-02_09:31:36:831] requestBaseBandVersion RM500QGLABR01A01M4G
[03-02_09:31:36:959] requestGetSIMStatus SIMStatus: SIM_READY
[03-02_09:31:36:991] requestGetProfile[1] cmnet///0
[03-02_09:31:37:022] requestRegistrationState2 MCC: 460, MNC: 11, PS: Attached, DataCap: UNKNOW
[03-02_09:31:37:054] requestQueryDataCall IPv4ConnectionStatus: DISCONNECTED
[03-02_09:31:37:055] ifconfig usb0 0.0.0.0
[ 1007.039176] IPv6: ADDRCONF(NETDEV_UP): usb0: link is not ready
[03-02_09:31:37:064] ifconfig usb0 down
[03-02_09:31:37:118] requestSetupDataCall WdsConnectionIPv4Handle: 0xedf84840
[ 1007.222546] net usb0: link_state 0x0 -> 0x1
[03-02_09:31:37:247] ifconfig usb0 up
[03-02_09:31:37:259] you are use OpenWrt?
[03-02_09:31:37:260] should not calling udhcpc manually?
[03-02_09:31:37:262] should modify /etc/config/network as below?
[03-02_09:31:37:269] config interface wan
[03-02_09:31:37:269]     option ifname   usb0
[03-02_09:31:37:269]     option proto    dhcp
[03-02_09:31:37:269] should use "/sbin/ifstaus wan" to check usb0 's status?
[03-02_09:31:37:269] busybox udhcpc -f -n -q -t 5 -i usb0
udhcpc: started, v1.30.1
udhcpc: sending discover
udhcpc: sending select for 10.101.194.39
udhcpc: lease of 10.101.194.39 obtained, lease time 7200
[03-02_09:31:37:432] udhcpc: ifconfig usb0 10.101.194.39 netmask 255.255.255.240 broadcast +
[03-02_09:31:37:444] udhcpc: setting default routers: 10.101.194.40
[03-02_09:31:41:087] requestRegistrationState2 MCC: 460, MNC: 11, PS: Attached, DataCap: UNKNOW
[03-02_09:31:41:119] requestRegistrationState2 MCC: 460, MNC: 11, PS: Attached, DataCap: UNKNOW
[03-02_09:31:41:151] requestRegistrationState2 MCC: 460, MNC: 11, PS: Attached, DataCap: UNKNOW
[03-02_09:31:41:182] requestRegistrationState2 MCC: 460, MNC: 11, PS: Attached, DataCap: UNKNOW
[03-02_09:31:47:007] requestRegistrationState2 MCC: 460, MNC: 11, PS: Attached, DataCap: UNKNOW
[03-02_09:31:47:039] requestRegistrationState2 MCC: 460, MNC: 11, PS: Attached, DataCap: UNKNOW
```