**EWM-W170 wifi porting guide for imx6 Yocto2.5**

**Porting (Yocto2.5)**

1. Get source code

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Module\_Name | Platform | Porting Guide | Interface | OS Support | Support Kernel version | Module Driver Version |
| WPEQ-160ACN | x86/x64 | Linux | PCIE-USB | Linux | 4.1 | 4.5.21.410 |
| WPEQ-160ACN | ARM32 | Linux | PCIE-USB | Linux | 4.14 | 4.5.25.33 |
| WPEQ-160ACN | ARM64 | Linux | PCIE-USB | Linux | 4.14 | 4.5.25.33 |

1. Get the qcacld-2.0-SparkLAN-4.5.25.33.tar.xz

2. Modify Makefile KERNEL\_SRC path ＆ Add CROSS\_COMPILE toolchain path

ARCH := arm

CROSS\_COMPILE := arm-poky-linux-gnueabi-

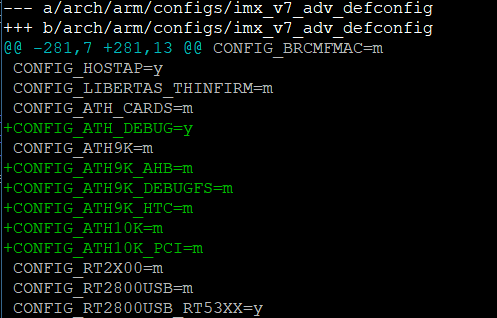
KERNEL\_SRC := /home/clayder/project/imx6/y25/linux-imx6

3 Get the Firmware and wlan.ko

4 Download yocto 2.5

5 Add Kernel config

Add config: CONFIG\_ATH10K=m , CONFIG\_ATH10K\_PCI=m CONFIG\_ATH\_DEBUG=y



1. Make Kernel and Kernel module in Yocto2.5

$ make -j4 modules

$ make modules\_install INSTALL\_MOD\_PATH=~/temp/rootfs

Change the ZImage form official build Image.

Copy the “rootfs/lib/modules/4.14.98-00002-gfc8cc77-dirty” to devices (/lib/modules) (imx6).

7 Copy wlan.ko and firmware from ”qcacld-2.0-SparkLAN-4.5.25.33.”

Copy the firmware “qcacld-2.0-SparkLAN-4.5.25.33/firmware\_bin” to device (imx6).

Copy wlan.ko file to device (/lib/modules/ewm-w170/) (imx6).

**Test**

Load module

# modprobe cfg80211

# insmod /lib/modules/ewm-w170/wlan.ko

# ifconfig wlan0 up

Link

# wpa\_passphrase "ASUS\_RISC\_SOM\_ESBC\_2.4"  1qaz2wsx > /tmp/wpa.conf  
#wpa\_supplicant -BDwext -iwlan0 -c/tmp/wpa.conf  
# cat /tmp/wpa.conf  
# udhcpc -b -i wlan0