

# [Realtek RF MP Tool Guidelines ]

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## **[1. Features]**

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The following steps demonstrate Realtek Wireless Adapter Mass Production Linux Tool. This is a simple install guide,  
We use Linux utility “iwpriv” to get and set I/O control to WLAN driver.  
Or use realtek proprietary tools “rtwpriv” for Android system.

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## **[2. Software Package] - To check have the Component .tar.gz files.**

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1. Driver source - rtXXX\_linux\_MP\_vX.X.X.tar.gz
2. Wireless tool Source -(If want to use for Android system) -  
Android\_wireless\_tools.tar
3. Documents  
- LinuxDriver\_MP\_Iwpriv\_UserGuide.doc

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## **[3. Quick Start Guide]**

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### **[3.1. Build Driver module]**

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Note: Use su/sudo su for root authentication with following command.

1. Unzip Driver source folder -  
# tar -xvzf rtlXXX\_linux\_MP\_linux\_vx.x.x.tar.gz
2. Change to driver source code directory -  
# cd rtlXXX\_linux\_MP\_\_linux\_vx.x.x
3. To choose interface for 8723A WiFi Driver.  
# chmod 777 make\_drv  
#./make\_drv

# input 1 or 2 for 8723AS/8723AU

#### 4. Config compile Setting-

Edit the "Makefile", and modify the line 21 "CONFIG\_MP\_INCLUDED = n" to "CONFIG\_MP\_INCLUDED = y"

If your target platform is the platform you're compiling driver, maybe you don't need to change any setting.

Otherwise you need to do some configuration manually, like cross compiler and kernel source tree directory.

ex.

ARCH := arm

CROSS\_COMPILE := arm-none-linux-gnueabi-

KSRC := /usr/src/linux-2.6.34.1

#### 5. Do the Compile the driver source code -

# make

If nothing goes wrong, the driver "8xxx.ko" will be generated.

If there're still some problems or need more detail compile driver guide, please check normal driver package for more reference.

## 3.2 Build Android wireless tools

### 3.2.1 rtwpriv for MP APK GUI Tool

The Realtek Android MP apk tool need to use the proprietary rtwpriv tool, please first to execute the adb push the rtwpriv to the android system.

In the RtkWiFiTest\_Package\_For\_Customer package more detailed information on readme.txt.

Q. How to build rtwpriv tool?

A.

[Linux]

Just "make", and you will get executable file "rtwpriv".

[Android - Speradtrum platform]

Step 1. put rtwpriv directory to idh.code/external/.

Step 2. In root directory (idh.code/), run "./mk sp6820gb u adr external/rtwpriv/".

Step 3. The binary is installed on "out/target/product/hsdroid/system/bin/rtwpriv".

### 3.2.2 iwpriv tool

If you want to use "iwpriv" for Android system, we need to Build iwpriv(wireless tools) for android.

And iwpriv use the "**wireless-extensions**" to ioctl with wlan driver, If your Android kernel disable the wireless extensions,

Please rebuild kernel and enable the kernel config "**wireless-extensions**"

```
Networking support --->
-*- Wireless --->
[*] WIRELESS_EXT
[*] WEXT_PRIV
```

If your are use Linux kernel 3.x, maybe you can't to select and enable items on make menuconfig, you can refer the following procedures:

Changed the followings in \linux-3.0.20\net\wireless\Kconfig:

**before:**

```
config WIRELESS_EXT
bool
...
```

```
config WEXT_PRIV
bool
```

**to:**

```
config WIRELESS_EXT
bool "WIRELESS_EXT"
...
config WEXT_PRIV
bool "WEXT_PRIV"
```

and selected the followings in "make menuconfig":

Networking support --->

-\*- Wireless --->

[\*] WIRELESS\_EXT

[\*] WEXT\_PRIV

With these steps, kernel and WLAN driver seem to be compiled successfully.

### **3.2.2-1 Compile the wireless tools**

```
#tar zxvf Android_wireless_tools-iwpriv.tar.gz
```

```
#cp wireless_tools froyo-x86/external/
```

```
root@realtek-desktop:~/Desktop/froyo-x86/external/wireless_tools# . ../../build/envset  
up.sh
```

```
root@realtek-desktop:~/Desktop/froyo-x86/external/wireless_tools# mm
```

```
.....
```

```
target Non-prelinked: iwpriv (out/target/product/eeepc/symbols/system/bin/iwpriv)
```

```
target Unstripped: iwpriv
```

```
(out/target/product/eeepc/obj/EXECUTABLES/iwpriv_intermediates/iwpriv)
```

```
Install: out/target/product/eeepc/system/sbin/iwpriv
```

```
#cp " out/target/product/eeepc/system/sbin/iwpriv "  to target platform file system "  
system/sbin/iwpriv ".
```

---

### [3.3 Manual for MP Use Example]

---

(Execute the following commands after WLAN interface is normally opened)

If you want to change the input parameter(rate 、 channel 、 txpower 、 bandwidth),please must input advance the command "**iwpriv wlan0 mp\_ctx stop**".

Please refer the doc "iwpriv\_mp\_settings\_for\_different\_data\_rate.xls " for set data rate.

---

#### Insert and enable the MP Mode Driver

---

```
insmod wlan.ko rtw_mp_mode=1
```

---

### 3.3.1 [ Continuous Tx testing ] : **"iwpriv wlan0 mp\_ctx background"**

---

```
#ifconfig wlan0 up                // Enable Device for MP operation
#iwpriv wlan0 mp_start             // enter MP mode
#iwpriv wlan0 mp_setrfpath 1       //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp_channel 1         // set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp_bandwidth 40M=0,shortGI=0 // set 20M mode and long GI,set 40M
is 40M=1 , set 80M= 2.
#iwpriv wlan0 mp_ant_tx a         //Select Antenna A for operation,if
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.

#iwpriv wlan0 mp_rate 108         // set OFDM data rate to 54Mbps, ex:
CCK 1M = 2, CCK 5.5M = 11 ;OFDM 6M=12 、 54M = 108; N Rate: MCS0 =
128,MCS1 = 129,MCS 2=130....MCS15 = 143 etc ;VHT Rate :MCS0 = 144,MCS
1=145,MCS 2=146 ~ MCS9 =153.
```

If you want to get and use Efuse Tx power index,please input advance the command **"iwpriv wlan0 mp\_get\_txpower"**,and use the return value fill to following orange field.

```
#iwpriv wlan0 mp_txpower patha=44,pathb=44 //set path A and path B Tx power
level,the Range is 0~63.
```

```
#iwpriv wlan0 mp_ctx background    // start continuous Tx
#iwpriv wlan0 mp_ctx stop          //stop continuous Tx
```

If you want to change the input parameter(rate 、 channel 、 txpower 、 bandwidth),please must input advance the command **"iwpriv wlan0 mp\_ctx stop"**.

```
#iwpriv wlan0 mp_stop              // exit MP mode
```

If you want to continue MP test , don't do this command.

```
#ifconfig wlan0 down              // close WLAN interface
```

---

### 3.3.2 [ Continuous Packet Tx testing] : "iwpriv wlan0 mp\_ctx background,pkt"

---

```
#ifconfig wlan0 up                // Enable Device for MP operation
#iwpriv wlan0 mp_start            // enter MP mode
#iwpriv wlan0 mp_setrfpath 1      //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp_channel 1        // set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp_bandwidth 40M=0,shortGI=0 // set 20M mode and long GI,set 40M
is 40M=1 , set 80M= 2.
#iwpriv wlan0 mp_ant_tx a        //Select Antenna A for operation,if
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.

#iwpriv wlan0 mp_rate 108        // set OFDM data rate to 54Mbps, ex:
CCK 1M = 2, CCK 5.5M = 11 ;OFDM 6M=12 、 54M = 108; N Rate: MCS0 =
128,MCS1 = 129,MCS 2=130....MCS15 = 143 etc ;VHT Rate :MCS0 = 144,MCS
1=145,MCS 2=146 ~ MCS9 =153.
```

If you want to get and use Efuse Tx power index,please input advance the command "iwpriv wlan0 mp\_get\_txpower ",and use the return value fill to following orange field.

```
#iwpriv wlan0 mp_txpower patha=44,pathb=44 //set path A and path B Tx power
level,the Range is 0~63.
```

```
#iwpriv wlan0 mp_ctx background,pkt // start continuous Packet Tx
#iwpriv wlan0 mp_ctx stop           //stop continuous Packet Tx
```

If you want to change the input parameter(rate 、 channel 、 txpower 、 bandwidth),please must input advance the command "iwpriv wlan0 mp\_ctx stop".

```
#iwpriv wlan0 mp_stop              // exit MP mode
```

If you want to continue MP test , don't do this command.

```
#ifconfig wlan0 down              // close WLAN interface
```



---

### 3.3.3 [ Count Packet Tx testing ]: "iwpriv wlan0 mp\_ctx count=%d,pkt"

---

```
#ifconfig wlan0 up                // Enable Device for MP operation
#iwpriv wlan0 mp_start            // enter MP mode
#iwpriv wlan0 mp_setrfpath 1      //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp_channel 1        // set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp_bandwidth 40M=0,shortGI=0 // set 20M mode and long GI,set 40M
is 40M=1 , set 80M= 2.
#iwpriv wlan0 mp_ant_tx a        //Select Antenna A for operation,if
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.

#iwpriv wlan0 mp_rate 108        // set OFDM data rate to 54Mbps, ex:
CCK 1M = 2, CCK 5.5M = 11 ;OFDM 6M=12 、 54M = 108; N Rate: MCS0 =
128,MCS1 = 129,MCS 2=130....MCS15 = 143 etc ;VHT Rate :MCS0 = 144,MCS
1=145,MCS 2=146 ~ MCS9 =153.
```

If you want to get and use Efuse Tx power index,please input advance the command "**iwpriv wlan0 mp\_get\_txpower**",and use the return value fill to following orange field.

```
#iwpriv wlan0 mp_txpower patha=44,pathb=44 //set path A and path B Tx power
level,the Range is 0~63.
```

```
# iwpriv wlan0 mp_ctx count=%d,pkt // "%d" Number of packets start
packet Tx
start continuous Packet Tx
```

```
#iwpriv wlan0 mp_ctx stop //stop continuous Packet Tx
```

If you want to change the input parameter(rate 、 channel 、 txpower 、 bandwidth),please must input advance the command "**iwpriv wlan0 mp\_ctx stop**".

```
#iwpriv wlan0 mp_stop // exit MP mode
```

If you want to continue MP test , don't do this command.

```
#ifconfig wlan0 down // close WLAN interface
```

---

3.3.4 [ Carrier suppression testing ]: "iwpriv wlan0 mp\_ctx background,cs"

---

```
#ifconfig wlan0 up                // Enable Device for MP operation
#iwpriv wlan0 mp_start            // enter MP mode
#iwpriv wlan0 mp_setrfpath 1      //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp_channel 1        // set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp_bandwidth 40M=0,shortGI=0 // set 20M mode and long GI,set 40M
is 40M=1 , set 80M= 2.
#iwpriv wlan0 mp_ant_tx a        //Select Antenna A for operation,if
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.

#iwpriv wlan0 mp_rate 22          // set OFDM data rate to 11 Mbps,ex:
CCK 1M = 2, CCK 5.5M = 11 ;
```

If you want to get and use Efuse Tx power index,please input advance the command "**iwpriv wlan0 mp\_get\_txpower**",and use the return value fill to following orange field.

```
#iwpriv wlan0 mp_txpower patha=44,pathb=44 //set path A and path B Tx power
level,the Range is 0~63.
```

```
#iwpriv wlan0 mp_ctx background,cs // start sending carrier suppression signal
```

```
#iwpriv wlan0 mp_ctx stop          //stop continuous Packet Tx
```

If you want to change the input parameter(rate 、 channel 、 txpower 、 bandwidth),please must input advance the command "**iwpriv wlan0 mp\_ctx stop**".

```
#iwpriv wlan0 mp_stop              // exit MP mode
```

If you want to continue MP test , don't do this command.

```
#ifconfig wlan0 down              // close WLAN interface
```

---

### 3.3.5 [ Single Tone Tx testing ]: "iwpriv wlan0 mp\_ctx background,stone"

---

```
#ifconfig wlan0 up                // Enable Device for MP operation
#iwpriv wlan0 mp_start            // enter MP mode
#iwpriv wlan0 mp_setrfpath 1      //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp_channel 1        // set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp_bandwidth 40M=0,shortGI=0 // set 20M mode and long GI,set 40M
is 40M=1 , set 80M= 2.
#iwpriv wlan0 mp_ant_tx a         //Select Antenna A for operation,if
device have 2x2 antennam select antenna "a" or "b" and "ab" for operation.

#iwpriv wlan0 mp_rate 108         // set OFDM data rate to 54Mbps, ex:
CCK 1M = 2, CCK 5.5M = 11 ;OFDM 6M=12 、 54M = 108; N Rate: MCS0 =
128,MCS1 = 129,MCS 2=130....MCS15 = 143 etc ;VHT Rate :MCS0 = 144,MCS
1=145,MCS 2=146 ~ MCS9 =153.
```

If you want to get and use Efuse Tx power index,please input advance the command **"iwpriv wlan0 mp\_get\_txpower "**,and use the return value fill to following orange field.

```
#iwpriv wlan0 mp_txpower patha=44,pathb=44 //set path A and path B Tx power
level,the Range is 0~63.
```

```
#iwpriv wlan0 mp_ctx background,stone # start sending single tone signal
```

```
#iwpriv wlan0 mp_ctx stop //stop continuous Packet Tx
```

If you want to change the input parameter(rate 、 channel 、 txpower 、 bandwidth),please must input advance the command **"iwpriv wlan0 mp\_ctx stop"**.

```
#iwpriv wlan0 mp_stop // exit MP mode
```

If you want to continue MP test , don't do this command.

```
#ifconfig wlan0 down // close WLAN interface
```

---

### 3.3.6 [ Air Rx testing ]: "iwpriv wlan0 mp\_arx start"

---

```
#ifconfig wlan0 up                // Enable Device for MP operation
#iwpriv wlan0 mp_start            // Enter MP mode
#iwpriv wlan0 mp_setrfpath 1      //Switch Antenna to WiFi (For Combo IC)
#iwpriv wlan0 mp_channel 1        // Set channel to 1 . 2, 3, 4~13 etc.
#iwpriv wlan0 mp_bandwidth 40M=0,shortGI=0    // set 20M mode and long GI,set 40M
is 40M=1 , set 80M= 2.
#iwpriv wlan0 mp_ant_rx a         // Select antenna A for operation,if device
have 2x2 antennam select antenna "a" or "b" and "ab" for operation.
#iwpriv wlan0 mp_arx start        // start air Rx teseting.
#iwpriv wlan0 mp_query            // get the statistics.
#iwpriv wlan0 mp_arx stop or #iwpriv wlan0 mp_reset_stats    // Stop air Rx test and show
the Statistics / Reset Counter.
#iwpriv wlan0 mp_stop             // exit MP mode
#ifconfig wlan0 down             // close WLAN interface
```

---

### 3.3.6 [Enable/Disable Tx Power Tracking ]: "iwpriv wlan0 mp\_pwrctldm start/stop"

---

```
#iwpriv wlan0 mp_pwrctldm start    #Enable the power tracking for Tx.
#iwpriv wlan0 mp_pwrctldm stop     #Disable the power tracking for Tx.
```

#### [4. Efuse Read/Write Use Example]

use example:

[4.1 WiFi efuse\_get]

```
#iwpriv wlan0 efuse_get realmap          // read form driver for all efuse logic map.
#iwpriv wlan0 efuse_get realraw          // read form all HW Efuse phy map.
#iwpriv wlan0 efuse_get mac              // read mac address  ( Direct to use the cmd
for raed mac address from the efuse content )

#iwpriv wlan0 efuse_get rmap,16,6        // fix offset :cmd,offset,byteCounts ( Specified a
start of the efuse's logic address 0x16 offset and set the number of bytes for read
the efuse content)

#iwpriv wlan0 efuse_get wlrfrmap,16,6    // fix offset :cmd,offset,byteCounts
( Specified a start of the efuse's logic 0x16 address offset and set the number of
bytes for read the fake WiFi efuse content)

#iwpriv wlan0 efuse_get wlrfrkmap        // read form WiFi fake for all efuse logic map.
```

[4.2 WiFi efuse\_set]

```
#iwpriv wlan0 efuse_set wmap,16,00e04c871234 // cmd,offset,Data bytes[hex]
( Specified a offset address for write 6 bytes data
"0x00,0xe0,0x4c,0x87,0x12,0x34" to the 0x16 start of the efuse logic address )

#iwpriv wlan0 efuse_set mac,00e04c871234 // cmd,Data bytes[hex] (Use set
mac cmd to write 6 bytes data "0x00,0xe0,0x4c,0x87,0x12,0x34" to the efuse
content)

#iwpriv wlan0 efuse_set wlwfake,16,00e04c871234 // cmd,offset,Data bytes[hex]
( Specified a offset address for write 6 bytes data
"0x00,0xe0,0x4c,0x87,0x12,0x34" to the 0x16 start of the Fake efuse content
address )
```

```
#iwpriv wlan0 efuse_set wldumpfake           // Dump WiFi HW efuse to Fake  
WiFi efuse Map.  
#iwpriv wlan0 efuse_set wlfk2map           // Write WiFi Fake all efuse map to  
HW WiFi efuse Map.
```

**If config the Driver to use File Map,you can use the following cmd to read current Drv logic map.**

```
#iwpriv wlan0 efuse_get drvmap           // read form current driver of efuse logic map.
```

**a. Example CMD for write to fake efuse Map and write fake to HW efuse Map:  
Write efuse data to fake map.**

1. #iwpriv wlan0 efuse\_set wlwfake,00,00112233445566778899aabbccddeeff
2. #iwpriv wlan0 efuse\_set wlwfake,10,00112233445566778899aabbccddeeff
3. #iwpriv wlan0 efuse\_set wlwfake,20,00112233445566778899aabbccddeeff
4. #iwpriv wlan0 efuse\_set wlwfake,20,00112233445566778899aabbccddeeff
- .....
5. #iwpriv wlan0 efuse\_set wlwfake,c0,00112233445566778899aabbccddeeff  
**read fake map for verify.**
6. #iwpriv wlan0 efuse\_get wlrfkmap  
**Fake efuse Map write to HW efuse.**
7. #iwpriv wlan0 efuse\_set wlfk2map  
**Read HW efuse Map for verify**
8. #iwpriv wlan0 efuse\_get realmap

---

## **[ 4.4 BT Efuse Function ] for COMBO IC**

---

### **[--> 4.4.1 BT Get Function <--]**

```
#iwpriv wlan0 efuse_get btfmap           // read form HW BT of front efuse logic map.  
#iwpriv wlan0 efuse_get btbmap           // read form HW BT of back efuse logic map.  
#iwpriv wlan0 efuse_get btrmap,16,6      // fix offset :cmd,offset,byteCounts  
( Specified BT start of the efuse's address and set the number of bytes for read  
from the BT efuse content)
```

```
#iwpriv wlan0 efuse_get btffake           // read form fake BT of front efuse logic map.  
#iwpriv wlan0 efuse_get btbfake           // read form fake BT of back efuse logic map.
```

### **[--> 4.4.2 BT Set Function <--]**

```
#iwpriv wlan0 efuse_set btwmap,16,00e04c871234      //  cmd,offset,Data bytes[hex]  
( Specified a offset address for write 6 bytes data  
"0x00,0xe0,0x4c,0x87,0x12,0x34" to the 0x16 start of the efuse content address )
```

```
#iwpriv wlan0 efuse_set btwfake,16,00e04c871234      //  cmd,offset,Data bytes[hex]  
( Specified a offset address for write 6 bytes data  
"0x00,0xe0,0x4c,0x87,0x12,0x34" to the 0x16 start of the Fake efuse content  
address )
```

```
#iwpriv wlan0 efuse_set btdumpfake      // Dump BT HW efuse to Fake BT efuse  
Map.  
#iwpriv wlan0 efuse_set btfk2map      // Wirte BT Fake efuse to HW BT efuse  
Map.
```

```
=====
```

[Efuse's spec].  
If you want a clearer definition of reference, you can refer to the Efuse's spec  
"AN\_RTL8XXX\_EEPROM\_SPEC\_Vxxxxxx.pdf"

```
=====
```

---

## [ 4.5 How to Read Efuse File

---

### Prepare procedures:

- **1. Edit the “Makefile” :**
  - CONFIG\_EFUSE\_CONFIG\_FILE=y
    - Please first to edit the Makefile before compile the Driver ,find out the ”CONFIG\_EFUSE\_CONFIG\_FILE=n” and change to y , then compile the driver source.
- **2. Prepare for efuse MAP directory and file:**
  - Prepare the Driver default read “A. Directory ” Efuse map file and “B. Directory” Mac Address file.
  - Reference the **FileEfuseExample** folder.
  - **A. /system/etc/wifi/wifi\_efuse.map**
    - Driver read from this file for initial efuse map.
  - **B. /data/wifimac.txt**
    - Driver read from this file for initial wlan mac address.
    - 3. You can use the Efuse CMD for read current contents after the driver initial to read efuse file.
    - #iwpriv wlan0 efuse\_get drvmap.

---

## 5. Crystal Calibration: iwpriv wlan0 mp\_phypara xcap=26

---

MP use CMD to fine tuning the Crystal Cap value, and CMD is " iwpriv wlan0 mp\_phypara xcap=%d".

We can continue to adjust for get target value, then use the Efuse CMD write to HW efuse, "**iwpriv wlan0 efuse\_set wmap,b9,20**"

8188EU example 0xB9 offset:

The "0xB9" is Crystal Calibration Efuse offset address,you can refer the IC Efuse spec document.

B9h Crystal Calibration XTAL\_K Value

Bit[5:0], Xi=Xo Range 0~3F h.



Bit[7:6]: reserved

FF h = 00 h

Default 20h

```
#insmod wlan.ko
```

```
#ifconfig wlan0 up
```

```
#iwpriv wlan0 mp_start
```

```
#iwpriv wlan0 mp_setrfpath 0
```

```
#iwpriv wlan0 mp_ant_tx a
```

```
#iwpriv wlan0 mp_channel 7
```

```
#iwpriv wlan0 mp_txpower patha=42
```

```
#iwpriv wlan0 mp_phypara xcap=32 //init a adjust Crystal
```

```
#iwpriv wlan0 mp_ctx background,stone
```

```
#iwpriv wlan0 mp_phypara xcap=26 //to adjust Crystal and measure
```

```
#iwpriv wlan0 mp_phypara xcap=24 //to adjust Crystal and measure
```

**Crystal Calibration Success! Find Crystal Index = 24**

**iwpriv wlan0 efuse\_set wmap,b9,18**

**CRYSTAL\_CAL\_STOP**

```
#rtwpriv wlan0 mp_ctx stop
```

---

## 6. Read Thermometer : iwpriv wlan0 mp\_ther

---

### 1. read Thermometer :

```
#iwpriv wlan0 mp_ther  
return a value
```

### 2. write the HW thermal value to HW efuse

```
#iwpriv wlan0 mp_ther write
```

### 3. use read Efuse CMD for verify the value from thermal offset.

```
#iwpriv wlan0 efuse_get rmap,(Efuse offset),1
```

---

## 7. Enter To BT Test Link Mode : for combo IC (8723BS/BU)

---

```
#ifconfig wlan0 up           //enable wlan interface  
#iwpriv wlan0 mp_start       //enter mp mode  
#iwpriv wlan0 mp_setbt dlfw   //Download BT path FW  
#iwpriv wlan0 mp_setbt 2ant //if the efuse is empty, and use 2 antennas on the  
Board.  
#iwpriv wlan0 mp_setbt testmode,01 //01 => enter to BT 2.0 TestMode, 02 => BT4.0  
                                   Direct Test mode, 03 => Connect Test Mode,00  
                                   => RF TxRx Test mode(non-link mode)  
#iwpriv wlan0 mp_setbt setgen,01 // leave BT TestMode, Reset HCI  
#iwpriv wlan0 mp_setbt down     //rollback to Wifi MP test.
```