



# Realtek Bluetooth MP UI User Guide



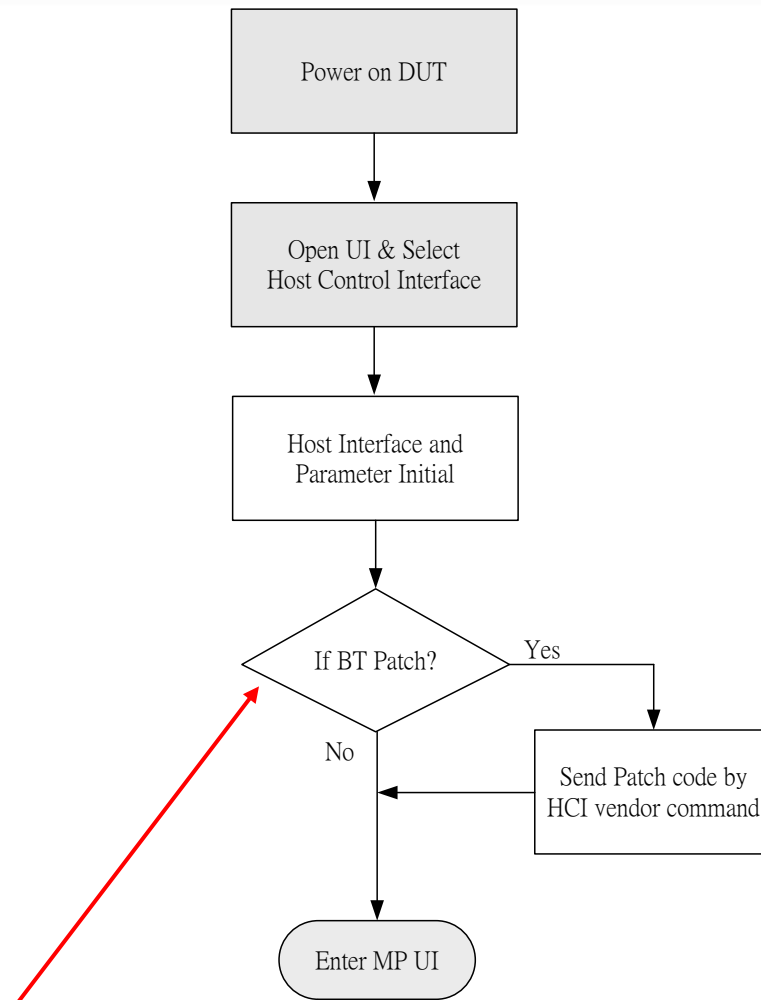


# Bluetooth MP Operation Flow





# Host Interface: BT USB/UART/PCIe

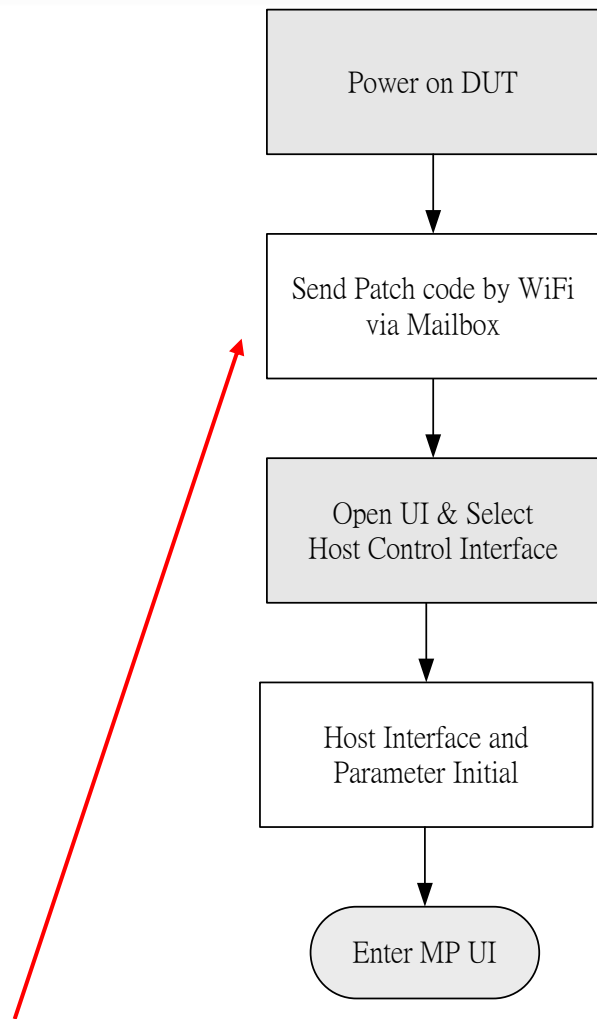


**Set "IsFirmwarePatchAtInit" in the HCISetup.ini, 0→Skip Patch, 1→Patch**  
**The patch file is "patch.bin" (located the same directory with RTK\_BT\_MP.exe)**





# Host Interface: WiFi USB/UART/PCIe (Windows Platform)



**The WiFi driver must download BT patch while DUT power on.**





# Host Interface: Linux Platform

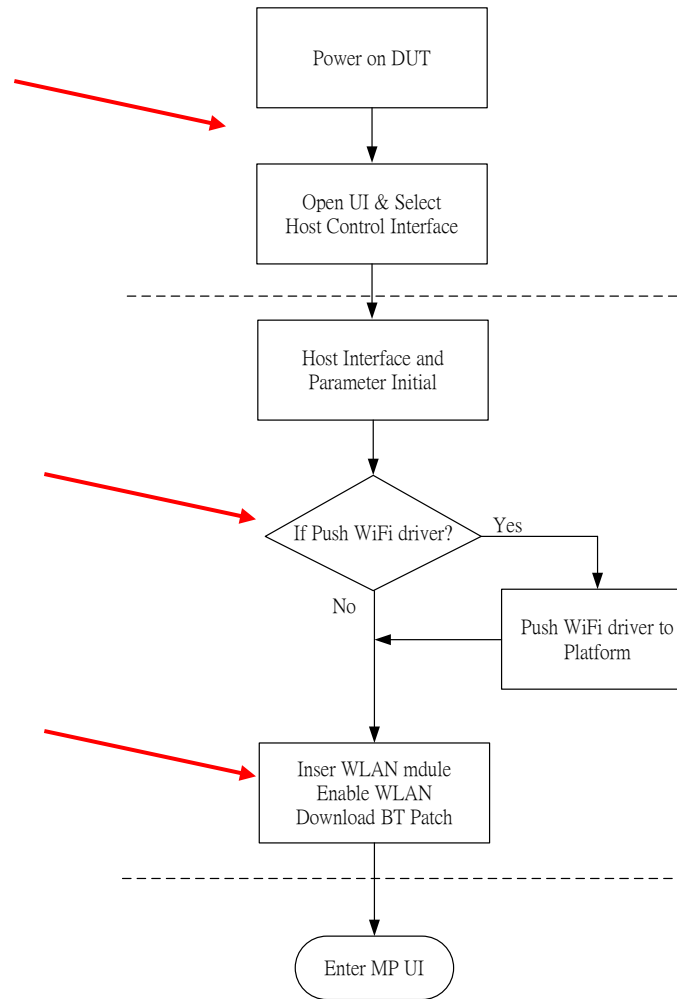
The WiFi in the DUT UI must be turned off after Power on. (no WLAN module exit in the system)

“IsPushMPDriver” in the HCISetup.ini defines: 0→ skip push, 1→push.

The MP driver filename is specified in the “ADBMPDriverFilename” of the HCISetup.ini. It must place in the same directory with RTK\_BT\_MP.exe.

The push destination is defined in the “ADBMPDriverRoute” of the HCISetup.ini .

The insert WiFi module is specified by the “ADBMPDriverRoute” + “ADBMPDriverFilename” in the HCISetup.ini .



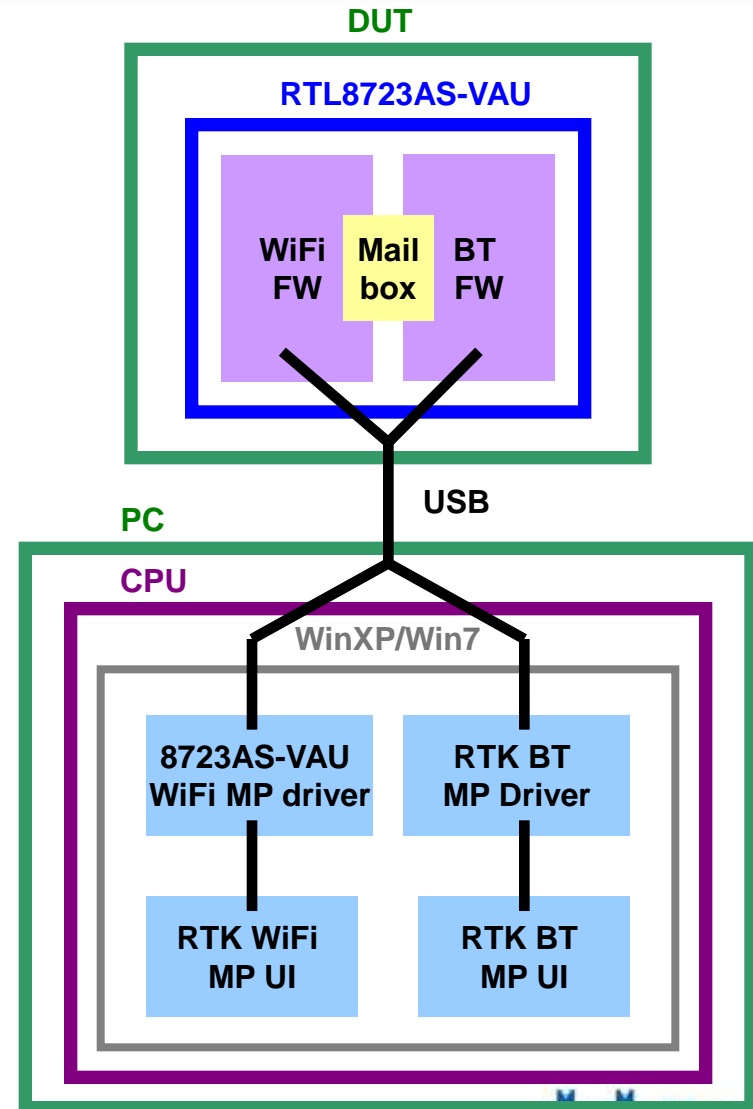
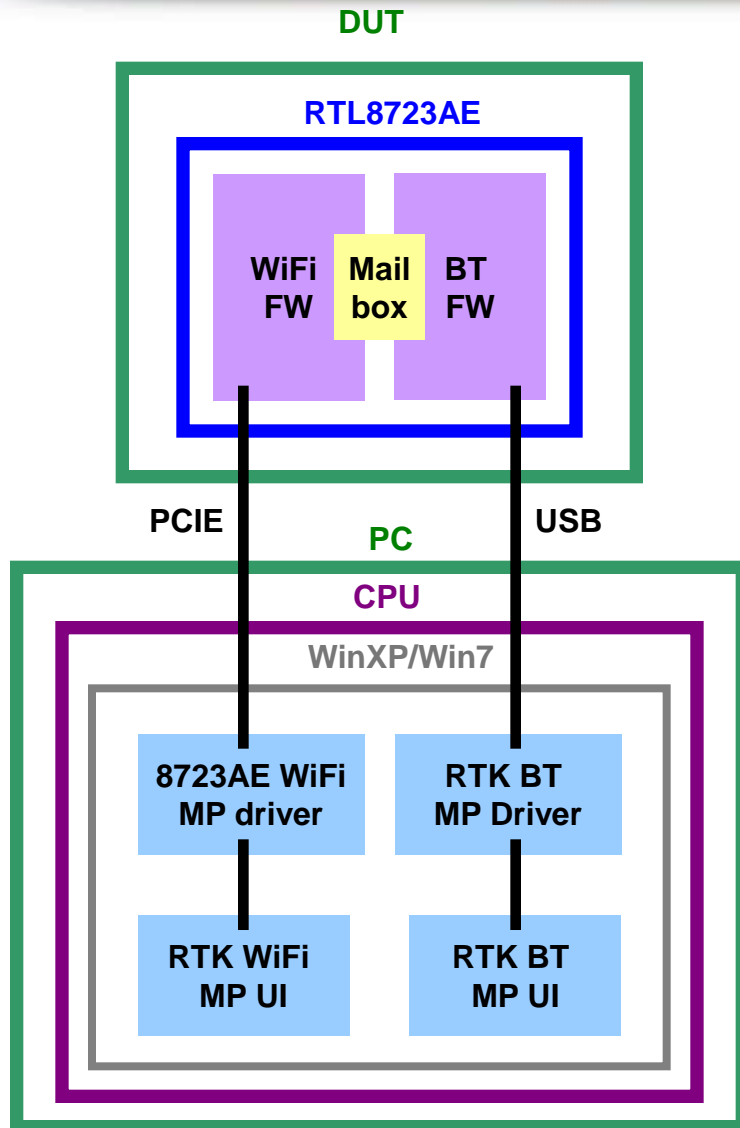


# Bluetooth MP UI Initial



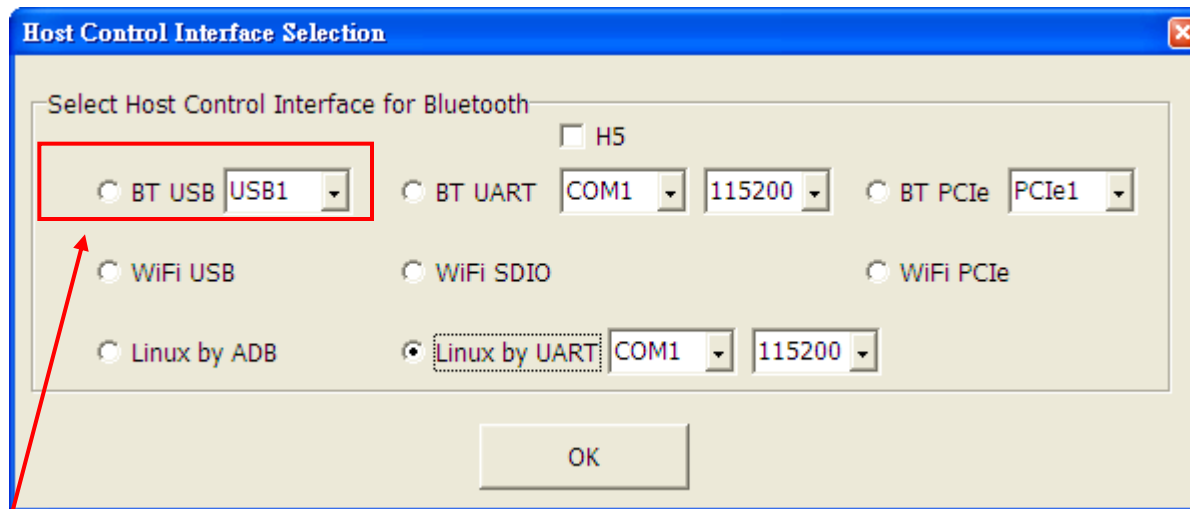


# Host Interface: BT USB Port (8723AE,8723AE-VAU)





# Host Interface: BT USB Port (8723AE,8723AE-VAU)



The image shows a Windows-style dialog box titled "Host Control Interface Selection". Inside, there is a section titled "Select Host Control Interface for Bluetooth". Below this, there are several radio button options. The "BT USB" option is selected and highlighted with a red rectangle. Next to it is a dropdown menu showing "USB1". Other options include "BT UART" (with dropdowns for "COM1" and "115200"), "BT PCIe" (with a dropdown for "PCIe1"), "WiFi USB", "WiFi SDIO", "WiFi PCIe", "Linux by ADB", and "Linux by UART" (which is also selected with a dotted border and has dropdowns for "COM1" and "115200"). There is also an unchecked checkbox for "H5". At the bottom center is an "OK" button. A red arrow points from the text below to the "BT USB" radio button.

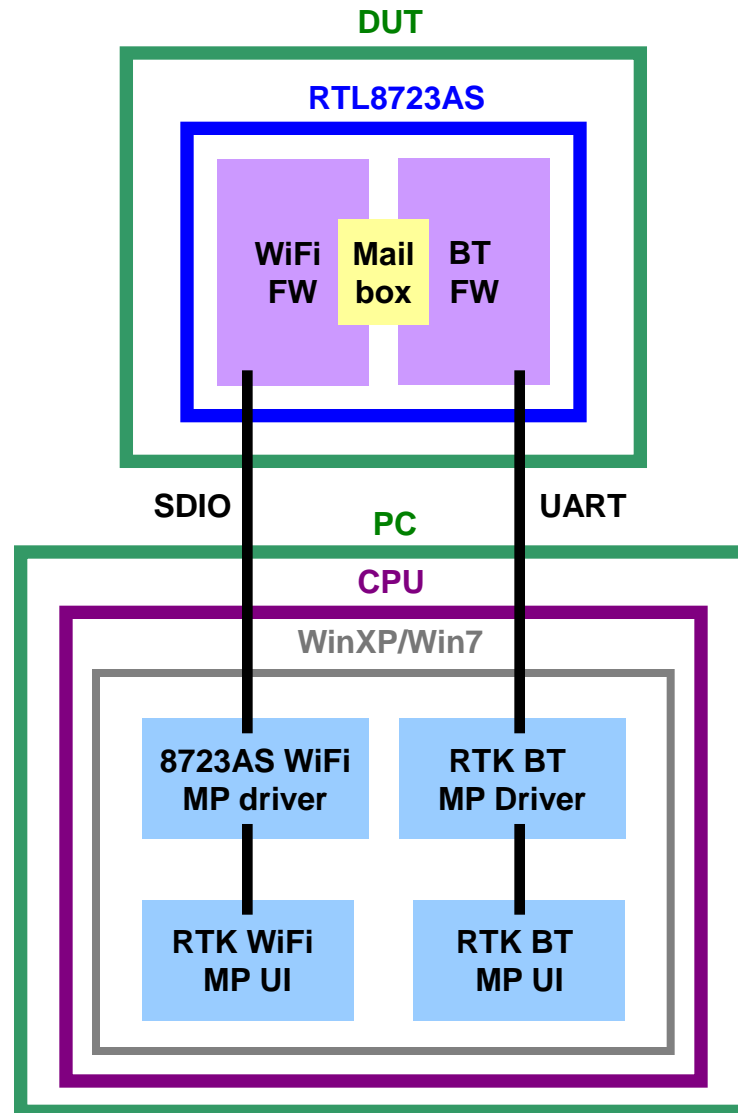
Select "BT USB" , Choose USB port number, and Press "OK" button to start the MP.





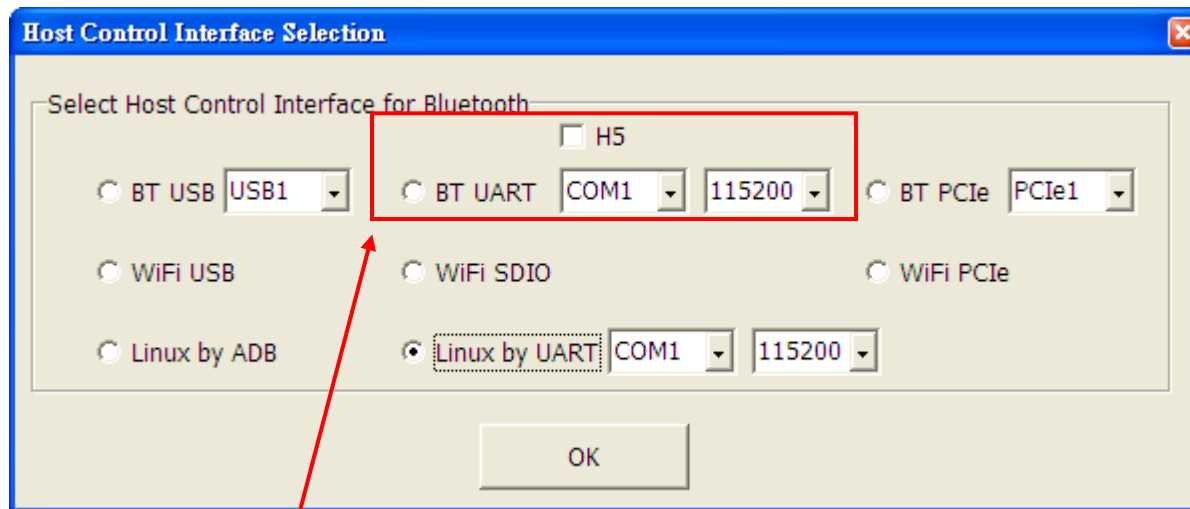


# Host Interface: BT UART Port (8723AS)





# Host Interface: BT UART Port (8723AS)



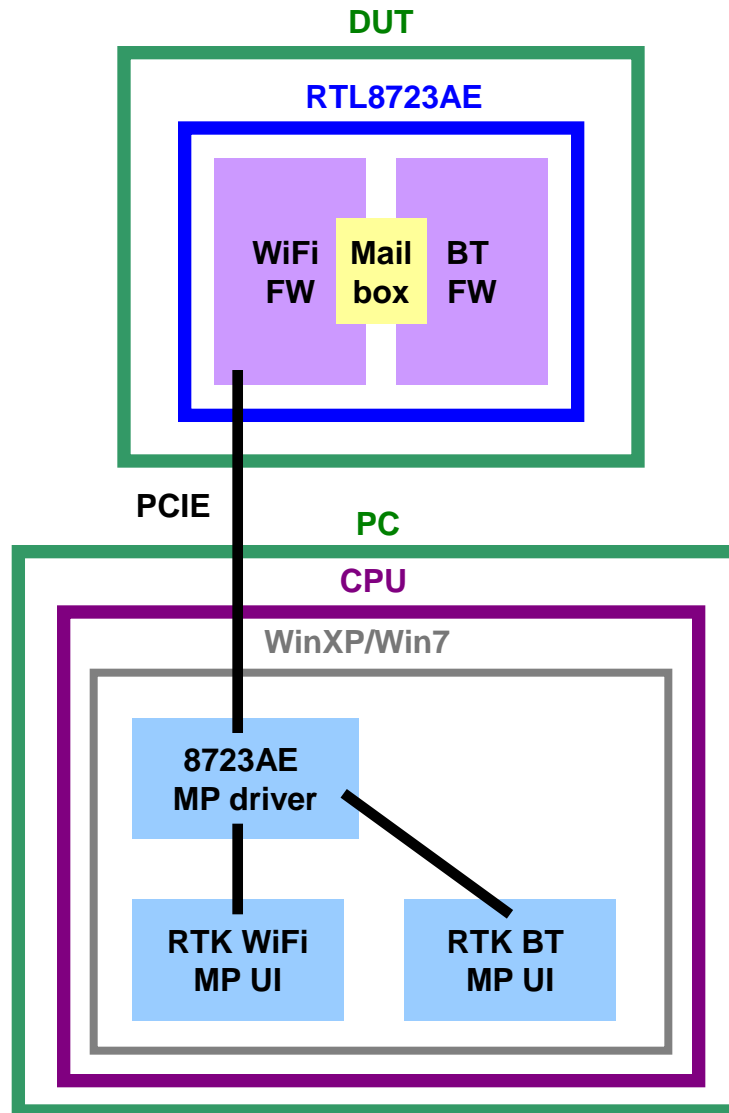
The image shows a Windows-style dialog box titled "Host Control Interface Selection". Inside, there is a section titled "Select Host Control Interface for Bluetooth". Below this, there are several radio button options: "BT USB" (selected), "BT UART", "BT PCIe", "WiFi USB", "WiFi SDIO", "WiFi PCIe", "Linux by ADB", and "Linux by UART". The "BT UART" option is highlighted with a red rectangle. A red arrow points from the text below to the "BT UART" radio button. The "BT UART" option has two dropdown menus: "COM1" and "115200". The "Linux by UART" option is also selected, with "COM1" and "115200" dropdown menus. There is an "OK" button at the bottom.

Select "BT UART" , Choose COM port number and baud rate (default: 115200), and Press "OK" button to start the MP.



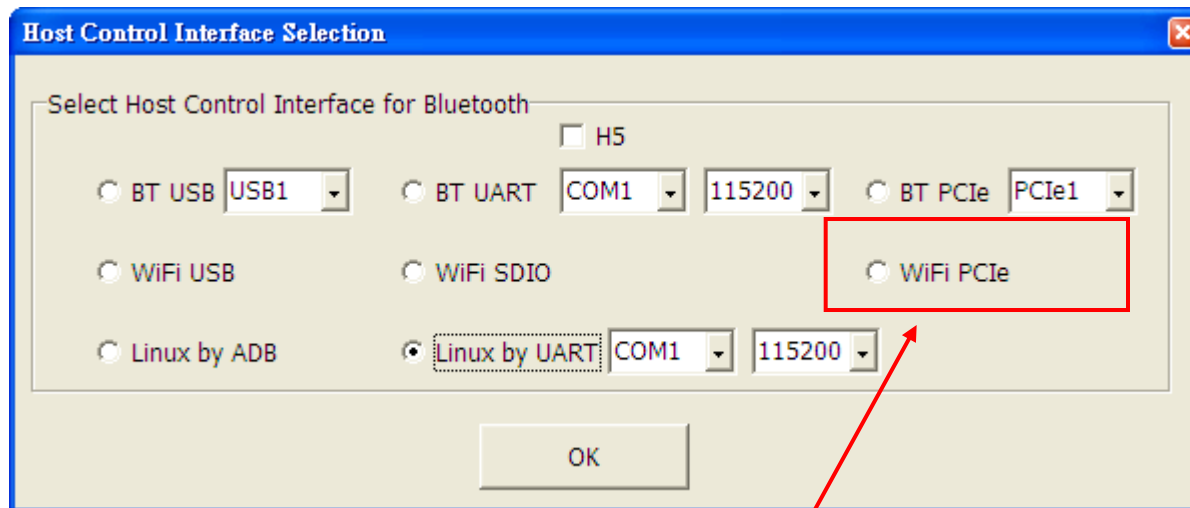


# Host Interface: WiFi PCIe Port (8723AE)





# Host Interface: WiFi PCIe Port (8723AE)



The dialog box titled "Host Control Interface Selection" contains the following options:

- ☐ H5
- ☐ BT USB (USB1)
- ☐ BT UART (COM1, 115200)
- ☐ BT PCIe (PCIe1)
- ☐ WiFi USB
- ☐ WiFi SDIO
- ☐ WiFi PCIe (highlighted with a red box)
- ☐ Linux by ADB
- ☒ Linux by UART (COM1, 115200)

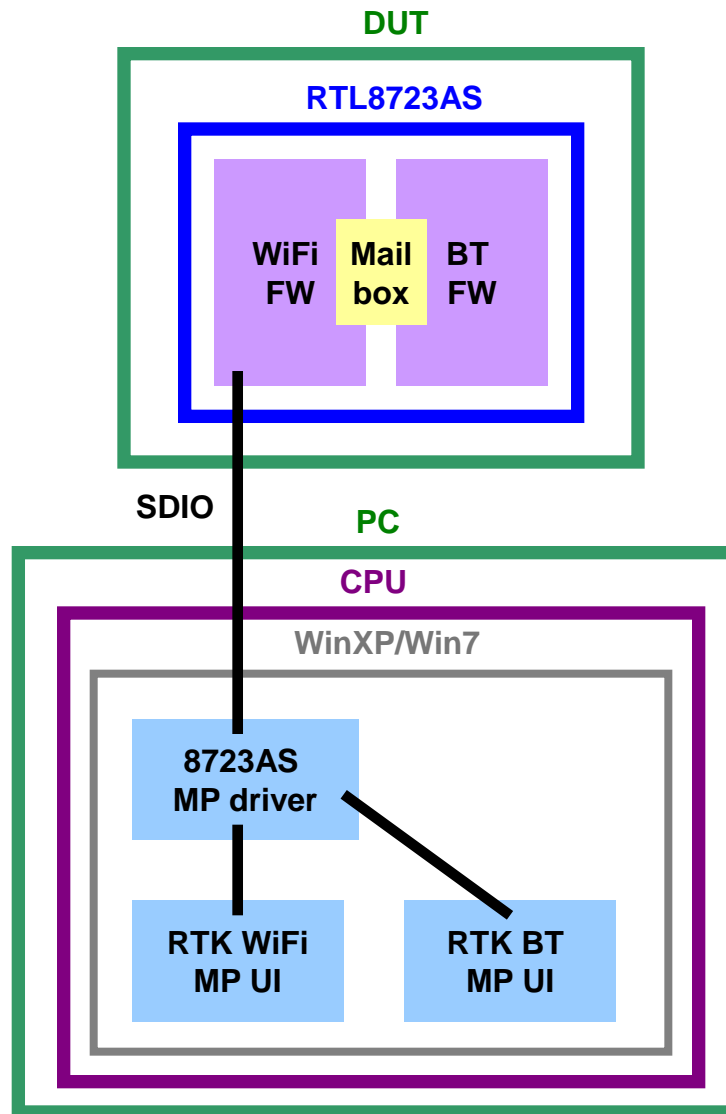
An arrow points from the "WiFi PCIe" option to the "OK" button.

Select "WiFi PCIe" , and Press "OK" button to start the MP.



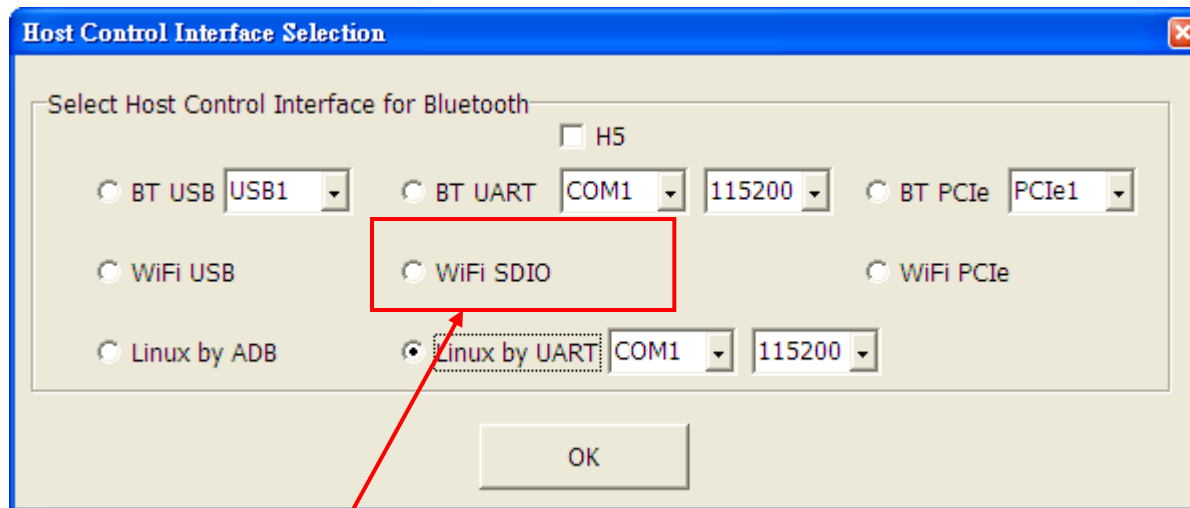


# Host Interface: WiFi SDIO Port (8723AS)





# Host Interface: WiFi SDIO Port (8723AS)

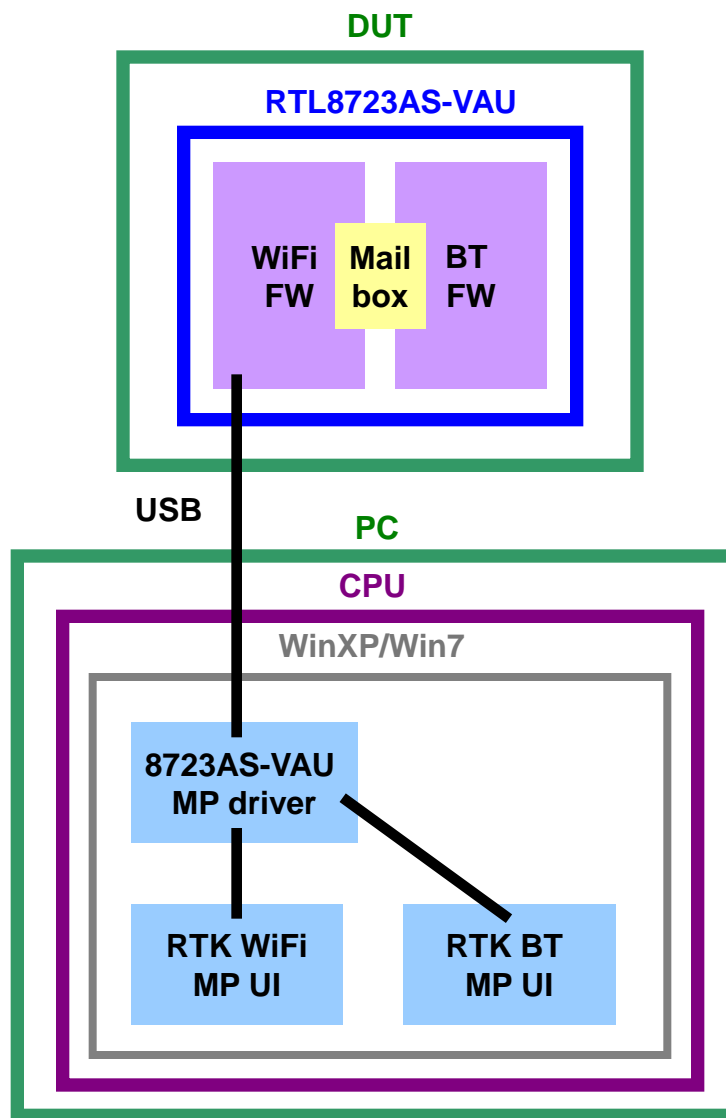


**Select "WiFi SDIO" , and Press "OK" button to start the MP.**



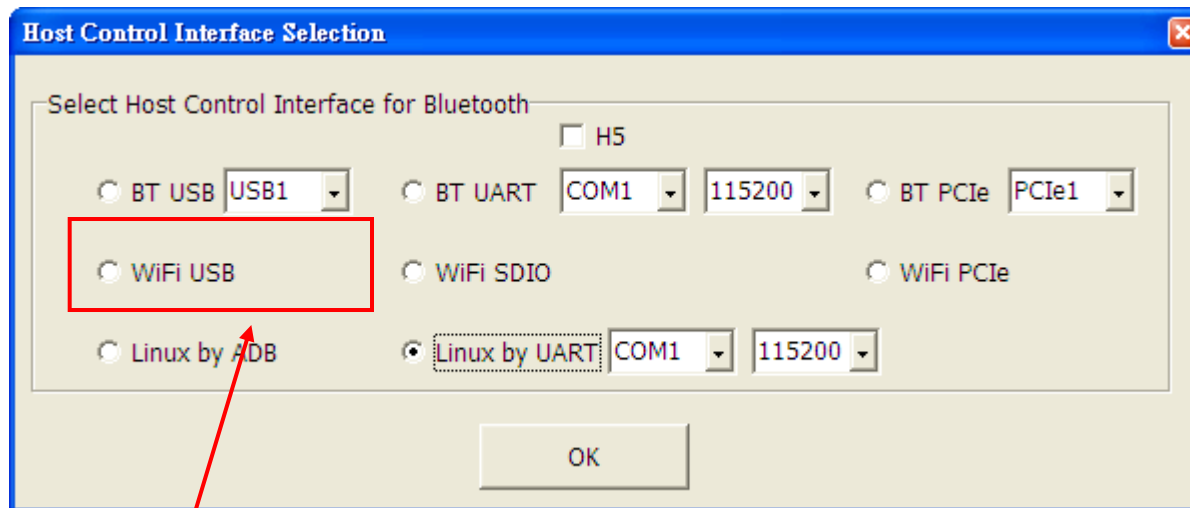


# Host Interface: WiFi USB Port (8723AS-VAU)





# Host Interface: WiFi USB Port (8723AS-VAU)



The dialog box is titled "Host Control Interface Selection". It contains a section "Select Host Control Interface for Bluetooth" with a checkbox for "H5". Below this, there are several radio button options: "BT USB" (selected), "BT UART", "BT PCIe", "WiFi USB" (highlighted with a red box), "WiFi SDIO", "WiFi PCIe", "Linux by ADB", and "Linux by UART". Each radio button option has associated dropdown menus for port selection (e.g., USB1, COM1, PCIe1) and baud rate (e.g., 115200). An "OK" button is located at the bottom right of the dialog box.

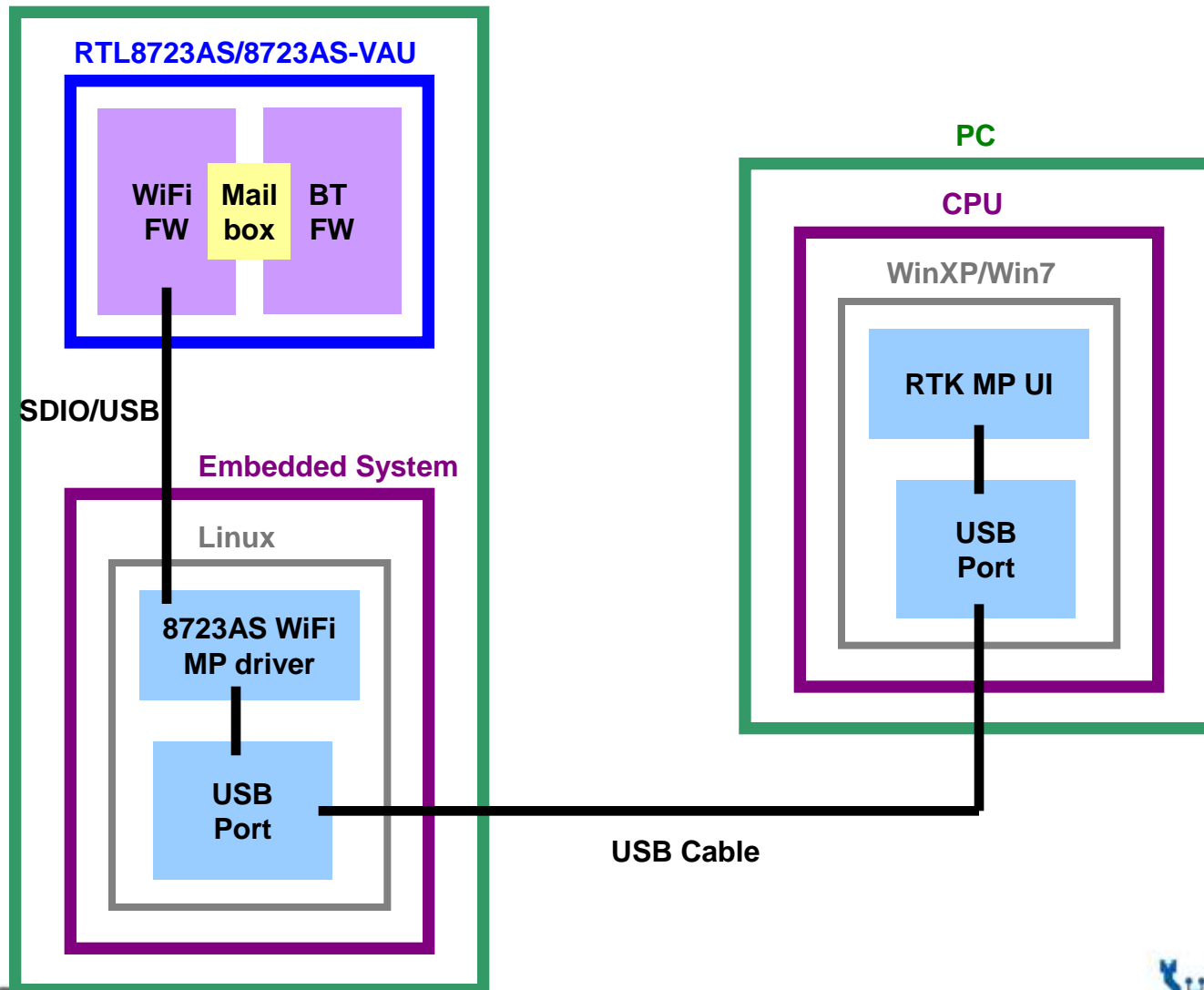
Select "WiFi USB" , and Press "OK" button to start the MP.





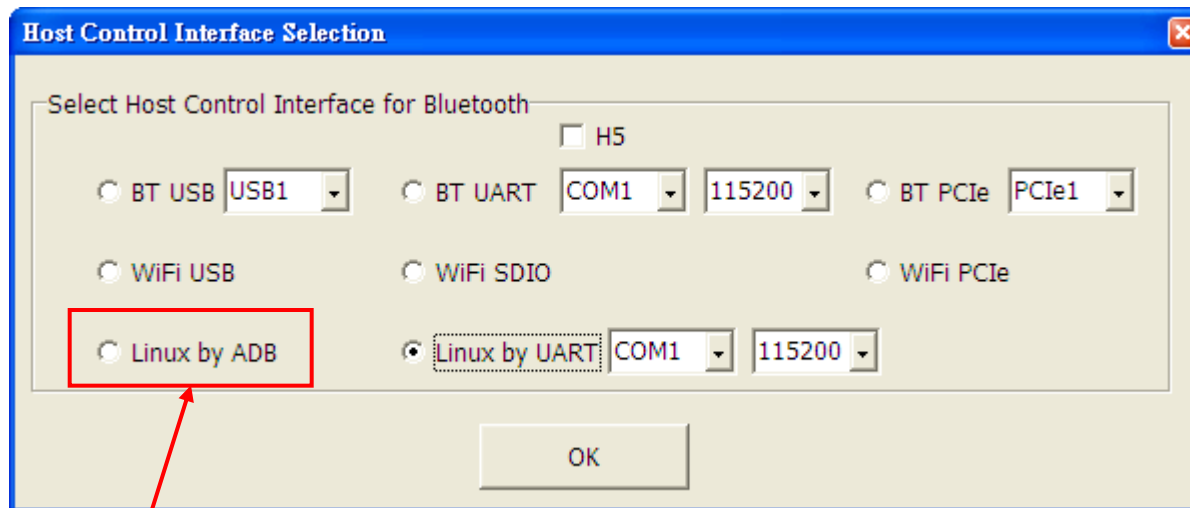


# Host Interface: Linux USB Port (8723AS,8723AS-VAU)





# Host Interface: Linux USB Port (8723AS,8723AS-VAU)



The dialog box titled "Host Control Interface Selection" contains the following options:

- ☐ H5
- ☐ BT USB (dropdown: USB1)
- ☐ BT UART (dropdown: COM1, dropdown: 115200)
- ☐ BT PCIe (dropdown: PCIe1)
- ☐ WiFi USB
- ☐ WiFi SDIO
- ☐ WiFi PCIe
- ☐ Linux by ADB (highlighted with a red box and a red arrow pointing to it)
- ☒ Linux by UART (dropdown: COM1, dropdown: 115200)

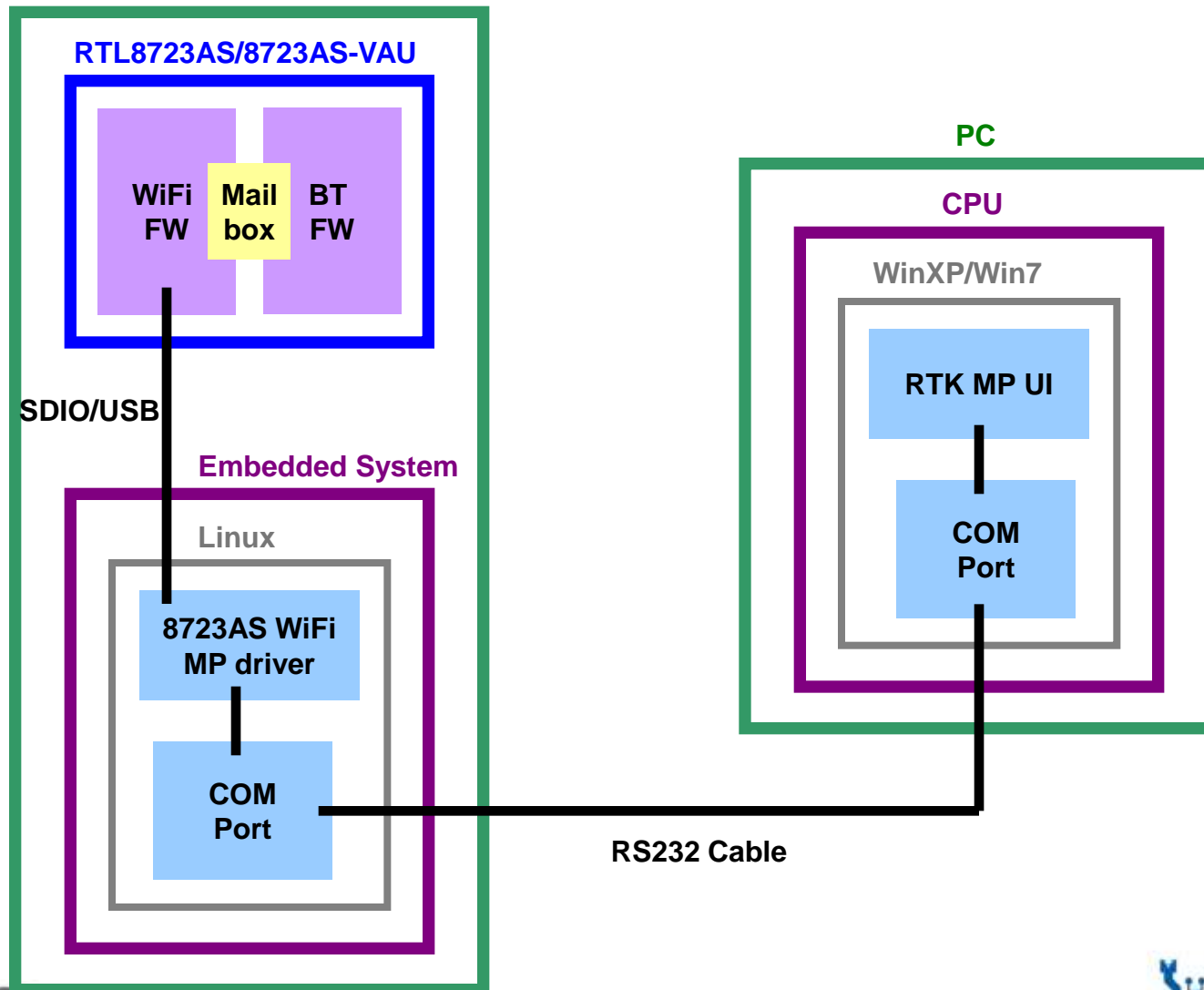
An "OK" button is located at the bottom right of the dialog box.

Select "Linux by ADB" , and Press "OK" button to start the MP.



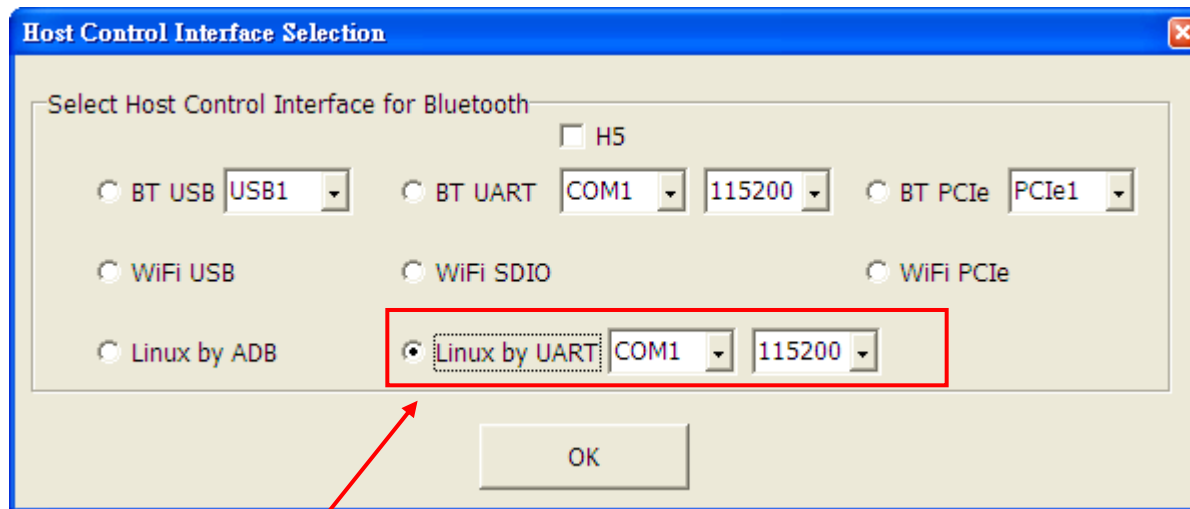


# Host Interface: Linux COM Port (8723AS,8723AS-VAU)





# Select Host Control Interface



The dialog box titled "Host Control Interface Selection" contains the following options:

- ☐ H5
- ☐ BT USB (dropdown: USB1)
- ☐ BT UART (dropdown: COM1, dropdown: 115200)
- ☐ BT PCIe (dropdown: PCIe1)
- ☐ WiFi USB
- ☐ WiFi SDIO
- ☐ WiFi PCIe
- ☐ Linux by ADB
- ☒ Linux by UART (dropdown: COM1, dropdown: 115200)

A red rectangle highlights the "Linux by UART" option and its dropdowns. A red arrow points from the text below to the "Linux by UART" radio button. An "OK" button is at the bottom right.

Select "Linux by UART" , Choose COM port number and baud rate (default: 115200), and Press "OK" button to start the MP.

**Note:** It is recommended to press the "OK" button after the system boot completely.





# The Main UI (BT Host type)

Realtek Bluetooth MP v2.81 --- RTL8723a (BD Address = 0x00E04C887232)

Action Item:

Rx Packets:  Error Bits:  BER (%):

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Payload bits:  Hit Target:

Tx Gain Index:  Packet Header:  ☐ LE connect

Tx Packet Count:  ☒ Whitening Coeff:  Tx DAC Current:

2012/12/6 03:25:37

```
USB Initialize successful!!
=====
Bluetooth Device Address: 0x00E04C887232
Bluetooth Device Name: RTK_BT_4.0
HCI_Version: 0x06
HCI_Revision: 0x801f
LMP_Version: 0x06
Manufacturer_Name: Realtek Semiconductor Corporation
LMP_Subversion: 0x9b79
Supported Feature(0~7): 0xFF 0xFB 0xFF 0xFE 0xDB 0xFF 0x7B 0x87
=====
```

If initial ok, memo show as below





# The Main UI (WiFi Host type)

Realtek Bluetooth MP v2.7 --- RTL8723a (Control by Linux Console)

Action Item:

Tx Packets:  Error Bits:  BER (%):

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Payload bits:  Hit Target:

Tx Gain Index:  Packet Header:  ☐ LE connect

Tx Packet Count:  ☒ Whitening Coeff:  Tx DAC Current:

2012/11/29 02:16:43

```
Start Linux Console ok!!
Driver already exists!!
Enable WLAN Adapter ok!!
Enter MP mode ok!!
Download BT firmware ok!!
BT is controlled by WiFi now!!
=====
BT is ready!!
BT Firmware version: 0x9a4d
BT Firmware logic version: 0x9a
BT BD Address: 0x00e04c842713
=====
```

If initial ok, memo show as below

If initial fail, Check those:

- RS232/USB cable
- UART setup /USB port
- BT Module
- BT MP driver

**Note:** If initial fail (ex: enable WLAN adapter fail), it may result from the boot is not completed during MP UI start. You can press "Host Re-Init" button or reopen the MP UI.







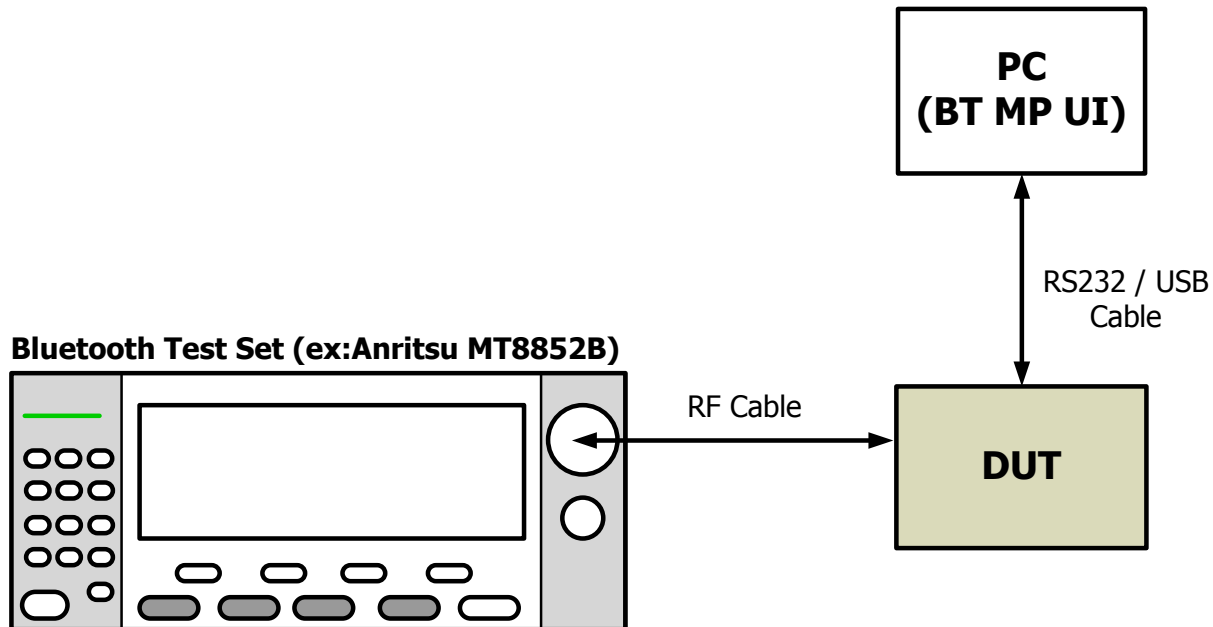
# Bluetooth DUT Test Mode Setup & Test Procedure





# BT DUT Test Mode Test Topology

The BT MP sends BT HCI command to DUT. The DUT enable Inqrr/Page scan and enter DUT test mode. The Bluetooth tester established a link with the DUT over the RF channel using the normal Bluetooth protocol.







# UI Setup Step-1: Enter DUT Test Mode

Realtek Bluetooth MP v2.7 --- RTL8723a (Control by Linux Console)

Action Item:

Tx Packets:  Error Bits:  BER (%):

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Payload bits:  Hit Target:

Tx Gain Index:  Packet Header:  ☐ LE connect

Tx Packet Count:  ☒ Whitening Coeff:  Tx DAC Current:

Enter MP mode ok!!  
Download BT firmware ok!!  
BT is controlled by WiFi now!!  
-----  
BT is ready!!  
BT Firmware version: 0x9a4d  
BT Firmware logic version: 0x9a  
BT BD Address: 0x00e04c842713  
-----  
>> HCI Reset successful!!  
>> Enter DUT Test mode ok!!

Press "Test Mode" button  
To enter BT DUT test mode.





# After UI Setup Step-1

After Bluetooth test set creates a connection with DUT, the BT MP UI will show message as below. The RF test can kick off.

```
>> [HCI Para] -> Connection_Handle = 0x002B
>> [HCI Para] -> BD_ADDR = 0x000272D199C1
>> [HCI Para] -> Link_Type = ACL
>> [HCI Para] -> Encryption = disabled

>> Write Link Policy to 0xF (All On) OK!!

>> Write_Automatic_Flush_Timeout (value = 0x3FF) command succeeded!!

>> Connect results listing....
```

| ID | BD_ADDR        | Handle | Link_Type | Encryption | Mode   |
|----|----------------|--------|-----------|------------|--------|
| 1  | 0x000272D199C1 | 0x002B | ACL       | Disable    | Active |





## UI Setup Step-2: Exit DUT Test Mode (if required)

The connection can be disconnected by either BT test set or DUT. For DUT end, the connection will lost because of supervision timeout after HCI reset is executed.

Realtek Bluetooth MP v2.7 --- RTL8723a (Control by Linux Console)

Action Item:

Tx Packets:  Error Bits:  BER (%):

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Payload bits:  Hit Target:

Tx Gain Index:  Packet Header:  ☐ LE connect

Tx Packet Count:  ☒ Whitening Coeff:  Tx DAC Current:

Enter MP mode ok!!  
Download BT firmware ok!!  
BT is controlled by WiFi now!!  
-----  
BT is ready!!  
BT Firmware version: 0x9a4d  
BT Firmware logic version: 0x9a  
BT BD Address: 0x00e04c842713  
-----  
>> HCI Reset successful!!  
>> HCI Reset successFu1!!

Press "HCI Reset" button  
To exit BT DUT test mode.





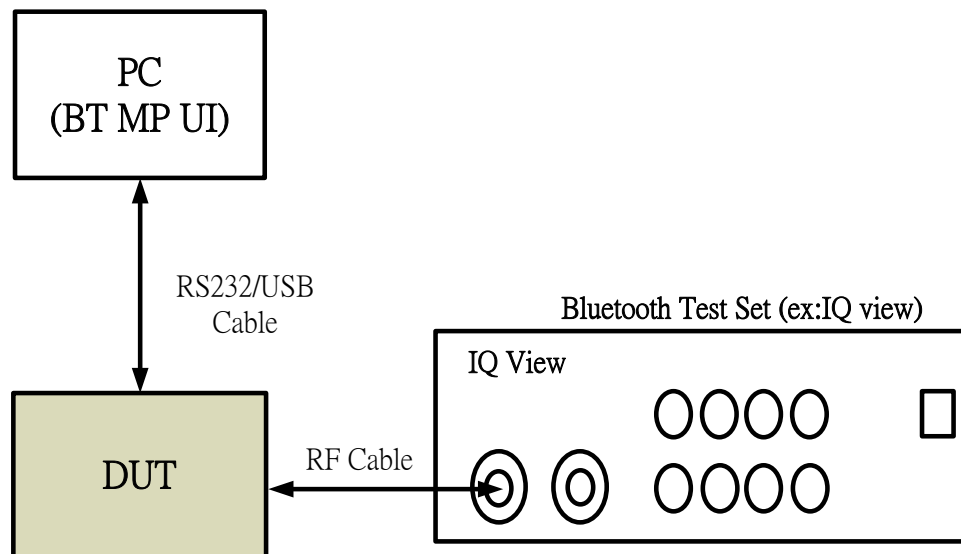
# Bluetooth Non-Link Mode Setup & Test Procedure





# Non-Link Mode Test Topology

For non-link mode test, the tester communicates with DUT over a cable via HCI with the DUT in a special test. The tester doesn't have to establish a protocol link with the DUT. The non-link mode of the 8723 series chip support "Packet-Tx", "Continue-Tx", and "Packet-Rx" for various RF performance test.





# Packet-Tx Setup

Press "Start" button

Select "Packet-Tx"

Select "Data Rate", "RF Channel", "Tx Gain Index", "Payload Type", "Payload bits", "Whitening Coeff"

Realtek Bluetooth MP v2.81 --- RTL8723a (Control by Linux Console)

Action Item: Packet Tx Start Pause Clear

Tx Packets: 0 Error Bits: 0 BER (%): 0.0000

Test Setup

Data Rate: 1M Payload Type: Normal Test Mode: Normal Test

RF Channel: 0 Payload bits: 8168 Hit Target: 0x00004c123456

Tx Gain Index: 7 Packet Header: 0x3ffff LE connect: Initiator

Tx Packet Count: 0 Whitening Coeff: 0x7f Tx DAC Current: 5

HCI Reset Test Mode Reg RW Host Re-Init

Select Slot Length

DH1 DH3 DH5

OK

>> BT Status: RF Tx  
>> Stop Test ok !!  
>> BT Status: RF Tx  
>> Enter TxRx Test  
>> TxPacket Count =  
>> Write TxRx Conf  
>> Start Packet-Tx  
>> BT Status: RF TxRx Test Mode + under Packet Tx test  
>> Stop Test ok !!  
>> BT Status: RF TxRx Test Mode + idle

Clear Log.







# Packet-Tx Run

Realtek Bluetooth MP v2.81 --- RTL8723a (Control by Linux Console)

Action Item:

Tx Packets:  Error Bits:  BER (%):

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Payload bits:  Hit Target:

Tx Gain Index:  Packet Header:  ☐ LE connect Initiator

Tx Packet Count:  ☐ Whitening Coeff:  Tx DAC Current:

```
>> TxPacket Count = 0 --> Continue Packet Tx mode...
>> Write TxRx Configuration ok!!
>> Start Packet-Tx Transmitting...
>> BT Status: RF TxRx Test Mode + under Packet Tx test

>> Stop Test ok ??
>> BT Status: RF TxRx Test Mode + idle

>> Enter TxRx Test mode ok!!
>> TxPacket Count = 0 --> Continue Packet Tx mode...
>> Write TxRx Configuration ok!!
>> Start Packet-Tx Transmitting...
>> BT Status: RF TxRx Test Mode + under Packet Tx test
```

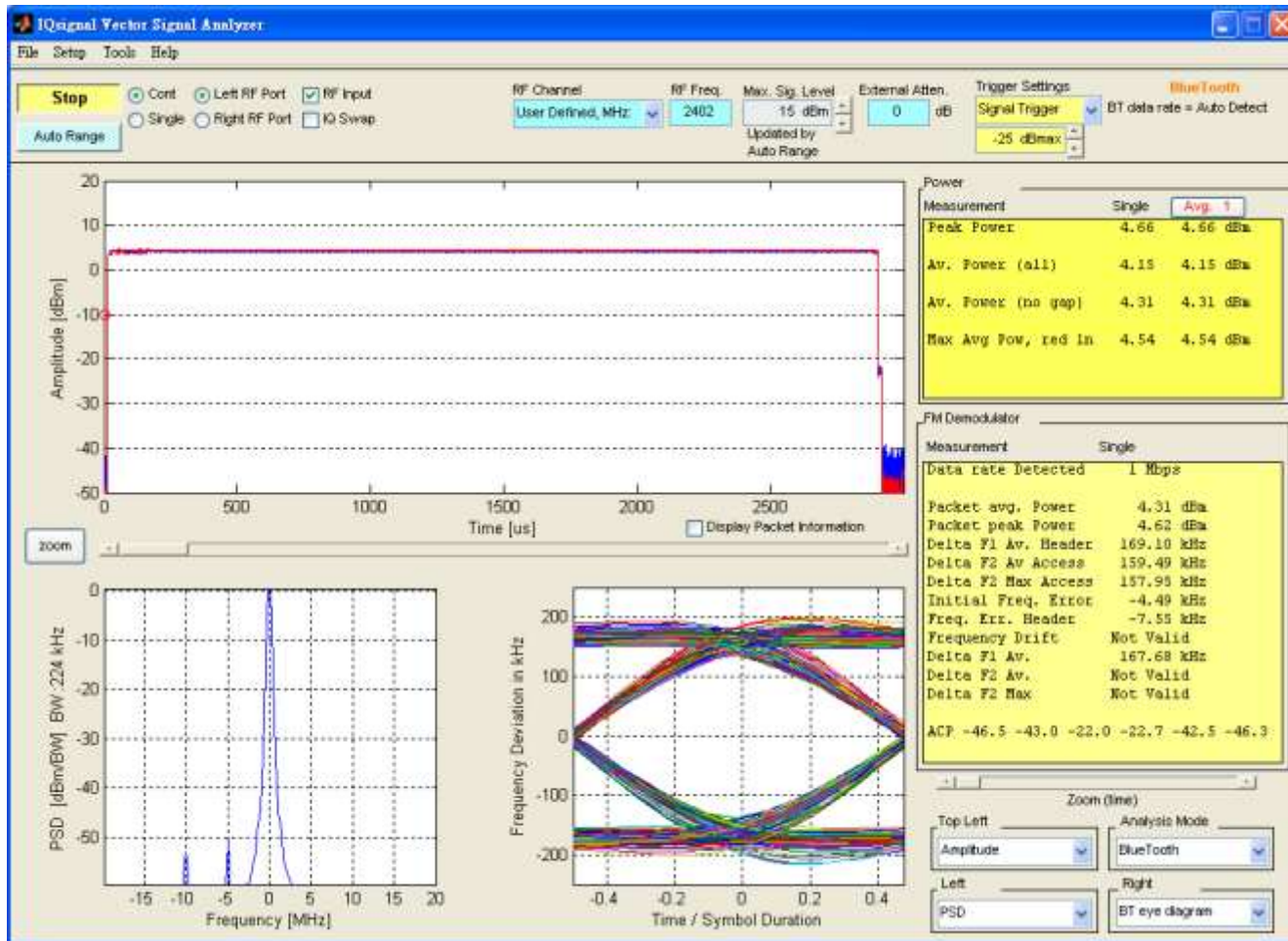
if "Packet-Tx" ok, the message is shown as memo  
"Packet-Tx" will stop after press "Pause" button





# Packet-Tx Measurement form IQ view

Date Rate: 1M/DH5, RF Channel: 0, Payload Length: 2712 bits, Payload Type: 11110000, Whitening: Off

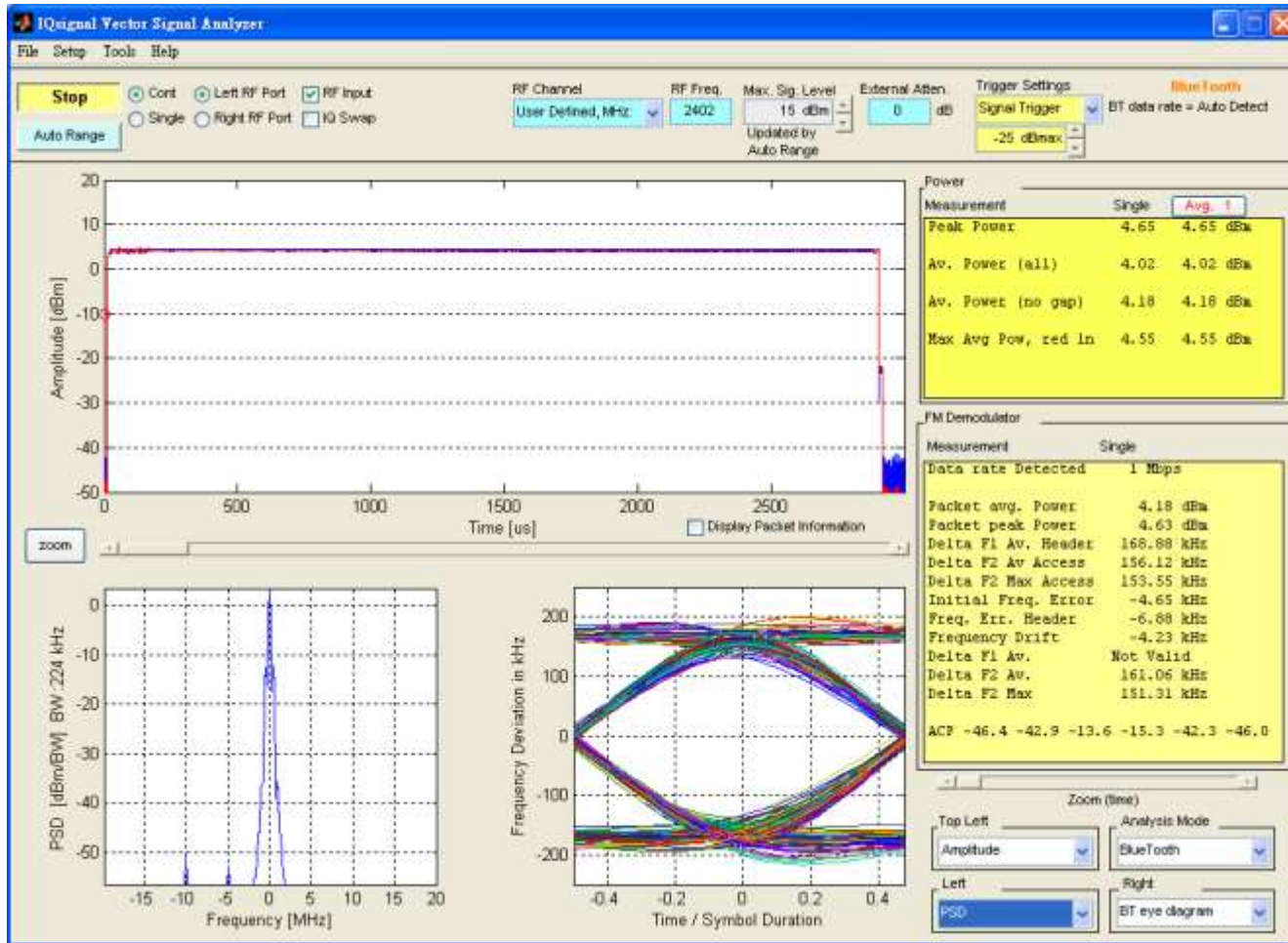






# Packet-Tx Measurement form IQ view

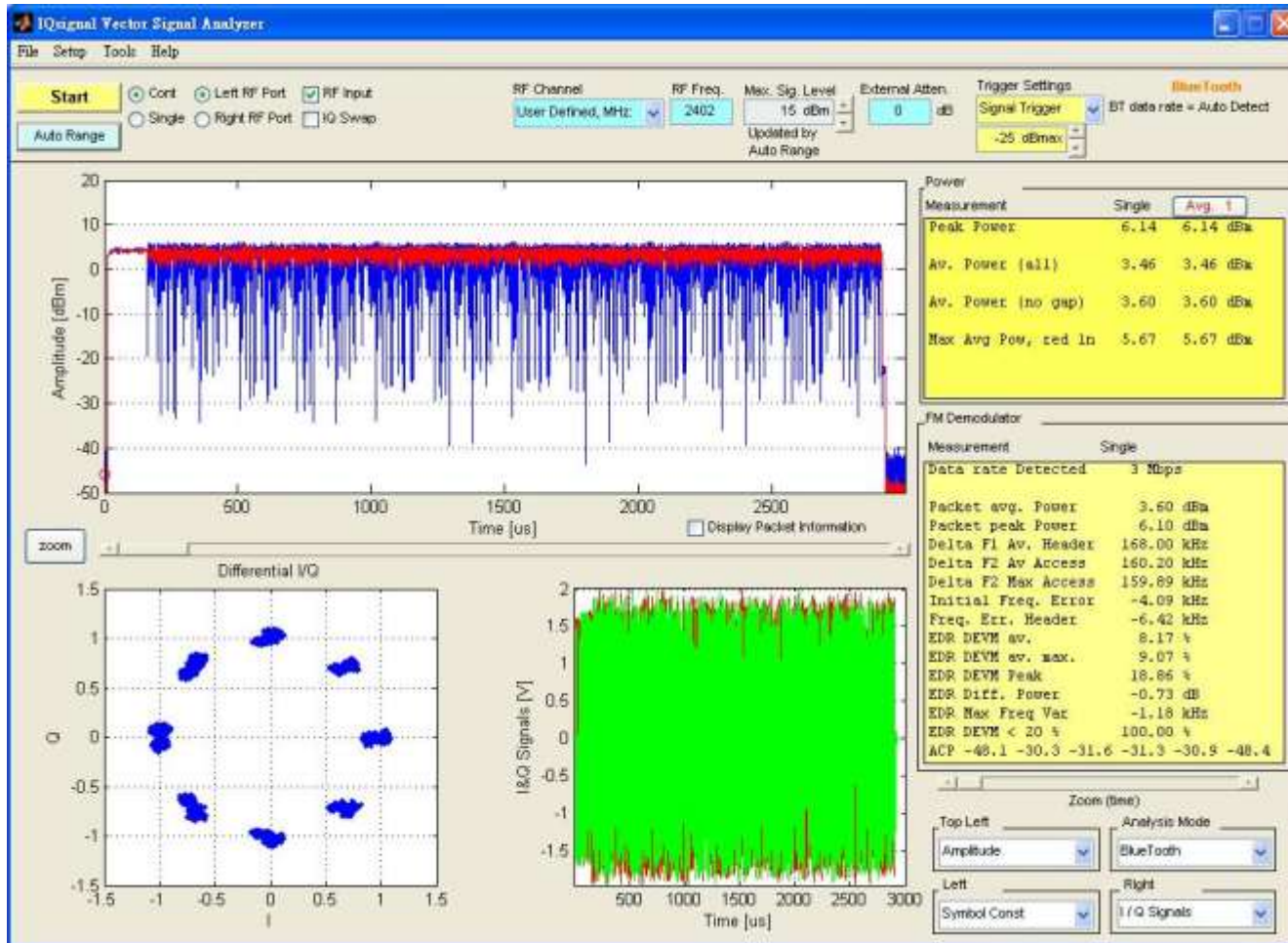
Date Rate: 1M/DH5, RF Channel: 0, Payload Length: 2712 bits, Payload Type: 10101010, Whitening: Off





# Packet-Tx Measurement form IQ view

Date Rate: 3M/3DH5, RF Channel: 0, Payload Length: 8168 bits, Payload Type: Normal, Whitening: On





# Continue-Tx Setup

Press "Start" button

Select "Continue-Tx"

Select "Data Rate", "RF Channel", "Tx Gain Index", "Payload Type"

Realtek Bluetooth MP v2.81 --- RTL8723a (Control by Linux Console)

Action Item: **Continue Tx** **Start** **Pause** **Clear**

Tx Packets: 0 Error Bits: 0 BER (%): 0.0000

Test Setup

Data Rate: 1M Payload Type: 1010 Test Mode: RTK Test

RF Channel: 0 Payload bits: 2712 Hit Target: 0x00004c123456

Tx Gain Index: 7 Packet Header: 0x3ffff LE connect: Initiator

Tx Packet Count: 0 Whittening Coeff: 0x7f Tx DAC Current: 5

HCI Reset

Test Mode

Reg RW

Host Re-Init

Clear Log.

```
>> Start Packet-Tx Transmitting...
>> BT Status: RF TxRx Test Mode + under Packet Tx test

>> Stop Test ok !!
>> BT Status: RF TxRx Test Mode + idle

>> Enter TxRx Test mode ok!!
>> Write TxRx Configuration ok!!
>> Start Continue-Tx Transmitting...
>> BT Status: RF TxRx Test Mode + under Continue Tx test

>> Stop Test ok !!
>> BT Status: RF TxRx Test Mode + idle
```







# Continue-Tx Run

Realtek Bluetooth MP v2.81 --- RTL8723a (Control by Linux Console)

Action Item:

Tx Packets:  Error Bits:  BER (%):

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Payload bits:  Hit Target:

Tx Gain Index:  Packet Header:  ☐ LE connect

Tx Packet Count:  ☐ Whitening Coeff:  Tx DAC Current:

HCI Reset

Test Mode

Reg RW

Host Re-Init

Clear Log

```
>> Enter TxRx Test mode ok!!
>> Write TxRx Configuration ok!!
>> Start Continue-Tx Transmitting...
>> BT Status: RF TxRx Test Mode + under Continue Tx test

>> Stop Test ok !!
>> BT Status: RF TxRx Test Mode + idle

>> Enter TxRx Test mode ok!!
>> Write TxRx Configuration ok!!
>> Start Continue-Tx Transmitting...
>> BT Status: RF TxRx Test Mode + under Continue Tx test
```

if "Continue-Tx" ok, the message is shown as memo

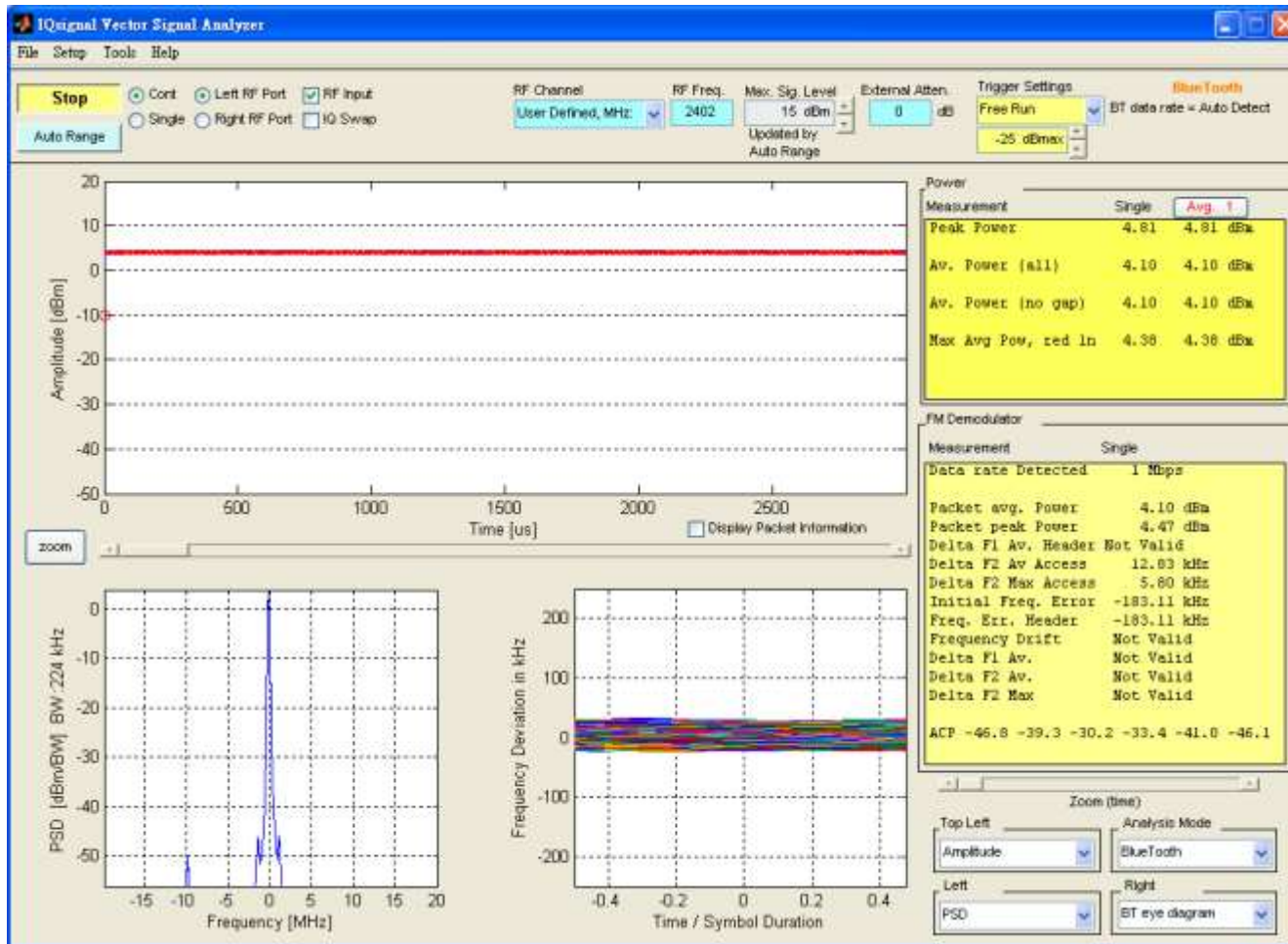
"Continue-Tx" will stop after press "Pause" button





# Continue-Tx Measurement form IQ view

“Continue-Tx” is used for Tx power measurement.





# Packet-Rx Setup

Press "Start" button

Select "Packet-Rx"

Select "Data Rate", "RF Channel", "Tx Gain Index", "Payload Type", "Payload bits", "Whitening Coeff", "Hit Target"

"Hit Target" is BD address that the BT tester used it to generate the access code of the test pattern.

These parameters must meet with the BT tester's pattern.

Realtek Bluetooth MP v2.81 --- RTL8723a (Control by Linux Console)

Action Item: Packet Rx [Start] [Pause] [Clear]

Rx Bits: 0 Error Bits: 0 BER (%): 0

Test Setup

Data Rate: 3M Payload Type: 0x0~0x Hit Target: 0x00004c123456

RF Channel: 0 Payload bits: 8168

Tx Gain Index: 7 Packet Header: 0x3fff

Tx Packet Count: 0 Whitening Coeff: 0x7f

Test Mode: RTK Test

LE connect Initiator

Tx DAC Current: 5

HCI Reset

Test Mode

Reg RW

Host Re-Init

Clear Log

BT is ready!!

BT Firmware version:

BT Firmware logic ver

BT BD Address: 0x00e6

>> HCI Reset successf

>> Translate BD Address: 00004c123456 to Access Code

>> Write Modem 0x1c AccessCode[52:67] as 0x120d

>> Write Modem 0x1e AccessCode[36:51] as 0x5a8b

>> Write Modem 0x20 AccessCode[20:35] as 0x61a6

>> Write Modem 0x22 AccessCode[4:19] as 0x03e4

Select Slot Length

3DH1 3DH3 3DH5

OK







# Packet-Rx Run

"Packet-Rx" test result

Realtek Bluetooth MP v2.81 --- RTL8723a (Control by Linux Console)

Action Item:

Rx Bits:  Error Bits:  BER (%):

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Payload bits:  Hit Target:

Tx Gain Index:  Packet Header:  ☐ LE connect

Tx Packet Count:  ☐ Whittening Coeff:  Tx DAC Current:

```
>> HCI Reset successful!!  
  
>> Translate BD Address: 00004c123456 to Access Code  
>> Write Modem 0x1c AccessCode[52:67] as 0x120d  
>> Write Modem 0x1e AccessCode[36:51] as 0x5a8b  
>> Write Modem 0x20 AccessCode[20:35] as 0x61a6  
>> Write Modem 0x22 AccessCode[4:19] as 0x03e4  
  
>> Enter TxRx Test mode ok!!  
>> Write TxRx Configuration ok!!  
>> Start Packet-Rx Receiving...  
>> BT Status: RF TxRx Test Mode + under Rx test
```

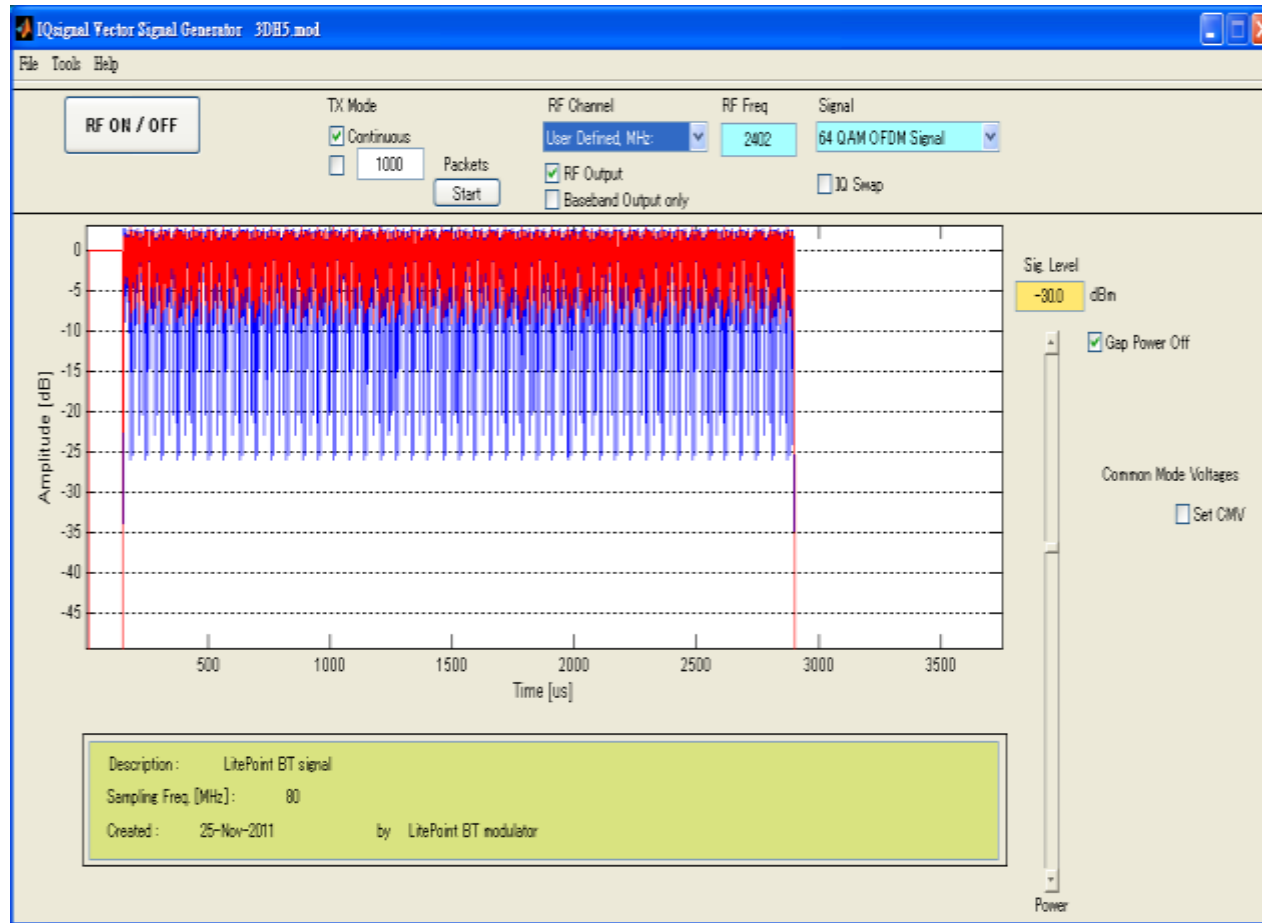
if "Packet-Rx" ok, the message is shown as memo  
"Packet-Rx" will stop after press "Pause" button





# IQ view Vector Signal Generator

Used the IQ view Vector Signal Generator to generate test pattern (\*.mod)







# **Bluetooth BT 4.0 LE**

## **Direct Test Mode Setup**

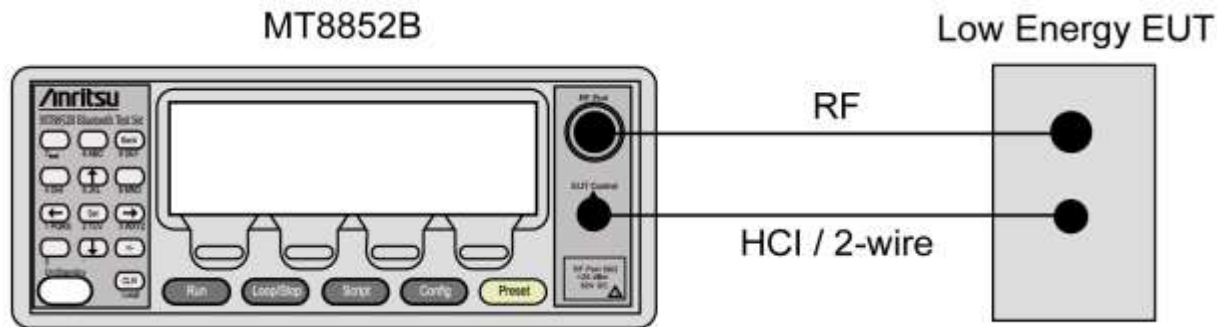
### **For RF/PHY Testing**





Most BT testers support host control port (USB,UART) that can be as a "upper tester" defined in the direct test mode of BT specifications. The diagram shown as below is the MT8852B test configuration for LE RF/PHY test.

The BT MP also supports Tx and Rx test when the BT tester can not be a "upper tester" (no host control port, ex: IQ view).





# Tx Test Setup:

Press "Start" to start Tx and BT tester can start measurement.

Press "Stop" to stop Tx.

Select "Packet-Tx"

Select "Data Rate", "RF Channel", "Tx Gain Index", "Payload Type", "Payload bytes"

"Data Rate" = [LE]

Realtek Bluetooth MP v2.81 --- RTL8723a (BD Address = 0x00E04C887232)

Action Item:

Tx Packets:  Error Bits:  BER (%):

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Payload bytes:  Hit Target:

Tx Gain Index:  Packet Header:  ☐ LE connect

Tx Packet Count:  ☐ Whitening Coeff:  Tx DAC Current:

Bluetooth Device Name: RTK\_BT\_4.0  
HCI\_Version: 0x06  
HCI\_Revision: 0x801f  
LMP\_Version: 0x06  
Manufacturer\_Name: Realtek Semiconductor Corporation  
LMP\_Subversion: 0x9b79  
Supported Feature(0~7): 0xFF 0xFB 0xFF 0xFE 0xDB 0xFF 0x7B 0x87  
=====

>> HCI Reset successful!!

>> Start Transmitting...

>> Stop Transmitting!!





# Rx Test Setup:

Press "Start" to start Rx and BT tester can start sending packet.

Press "Stop" to stop Rx.

Select "Packet-Rx"

Select "Data Rate", "RF Channel", "Payload Type", "Payload bytes"

"Data Rate" = [LE]

Realtek Bluetooth MP v2.81 --- RTL8723a (BD Address = 0x00E94C887232)

Action Item: **Packet Rx** **Start** **Pause** **Clear**

Rx Bits: 0 Error Bits: 0 BER (%): 0 **Update Rep**

Test Setup

Data Rate: **LE** Payload Type: **PRBS9** Test Mode: **Normal Test** **HCI Reset**

RF Channel: 0 Payload bytes: 37 Hit Target: 0x0000009e8b33 **Test Mode**

Tx Gain Index: 7 Packet Header: 0x031803 ☐ LE connect **Initiator** **Reg RW**

Tx Packet Count: 0 ☐ Whitening Coeff: 0x75 Tx DAC Current: 4 **Host Re-Init**

```
>> HCI Reset successful!!
>> Pseudo_Outter/BER/Report Count Enable

>> Translate BD Address: 0000009e8b33 to Access Code
>> Write Modem 0x1c AccessCode[52:67] as 0x5e72
>> Write Modem 0x1e AccessCode[36:51] as 0x7334
>> Write Modem 0x20 AccessCode[20:35] as 0x58cc
>> Write Modem 0x22 AccessCode[4:19] as 0x475c

>> Start Receiving...
>> Stop Receiving!!
>> 0 packets received
```

**Clear Log.**





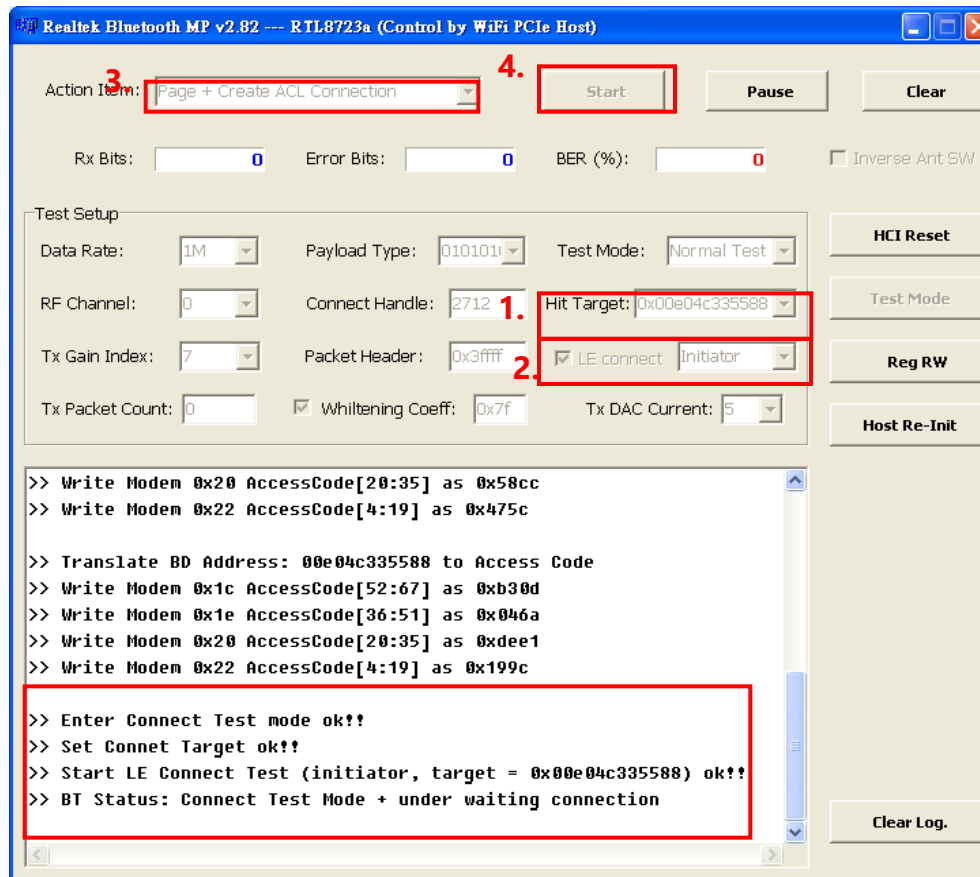
# **BT 4.0 LE Setup For FCC AFH Measurement**





# Step 1: Create LE connection (Initiator)

1. Checked [LE connect] and select "Initiator".
2. Key in the Target BD Address in the [Hit Target] and press "Enter" key
3. In the Action Items, select "Page + Create ACL connection"
4. press [Start] button







# Step 2: Create LE connection (Advertiser)

1. Checked [LE connect] and select "Advertiser".
2. In the Action Items, select "Page + Create ACL connection"
3. press [Start] button

Realtek Bluetooth MP v2.82 --- RTL8723a (Control by WiFi PCIe Host)

2. Action Item: **Page + Create ACL Connection** 3. **Start** **Pause** **Clear**

Rx Bits:  Error Bits:  BER (%):  ☐ Inverse Ant SW

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Connect Handle:  Hit Target:

Tx Gain Index:  Packet Header:  1. ☒ LE connect: **Advertiser**

Tx Packet Count:  ☒ Whitening Coeff:  Tx DAC Current:

HCI Reset  
Test Mode  
Reg RW  
Host Re-Init

BT is ready!!  
BT Firmware version: 0x9b79  
BT Firmware logic version: 0x00  
BT BD Address: 0x446d5731c5ff

>> HCI Reset successful!!  
>> Enter Connect Test mode ok!!  
>> Set Connet Target ok!!  
>> Start LE Connect Test (advertiser) ok...  
>> BT Status: Connect Test Mode + under waiting connection

Clear Log.



## Step 3: Create LE connection

Initiator will create LE connection with Advertiser and AFH start running.

```
>> Set LE Event Mask OK!!  
  
>> Set LE Adv Parameters OK!!  
  
>> Set LE Adv Enable OK!!  
  
>> [HCI Event] -> LE Connection Complete  
>> [HCI Para] -> LE Connection completed successfully  
>> [HCI Para] -> LE Connection_Handle = 0x0010  
>> [HCI Para] -> BD_ADDR = 0x00E04C232218  
  
>> HCI Reset successful!!
```





# Setup Antenna Switch (support after v2.82)

Realtek Bluetooth MP v2.82 --- RTL8723a (Control by Linux Console)

Action Item:

Tx Packets:  Error Bits:  BER (%):  ☐ Inverse Ant SW

Test Setup

Data Rate:  Payload Type:  Test Mode:

RF Channel:  Payload bits:  Hit Target:

Tx Gain Index:  Packet Header:  ☐ LE connect

Tx Packet Count:  ☒ Whitening Coeff:  Tx DAC Current:

2013/1/2 10:57:18

Start Linux Console ok!!  
No MP driver exists!!  
Insert MP driver ok!!  
Enable WLAN Adapter ok!!  
Enter MP mode ok!!  
Download BT firmware ok!!  
BT is controlled by WiFi now!!  
=====

BT is ready!!  
BT Firmware version: 0x9a4d  
BT Firmware logic version: 0x9a  
BT BD Address: 0x00e04c842713

If Checked: Main → WiFi  
else Main → BT

