

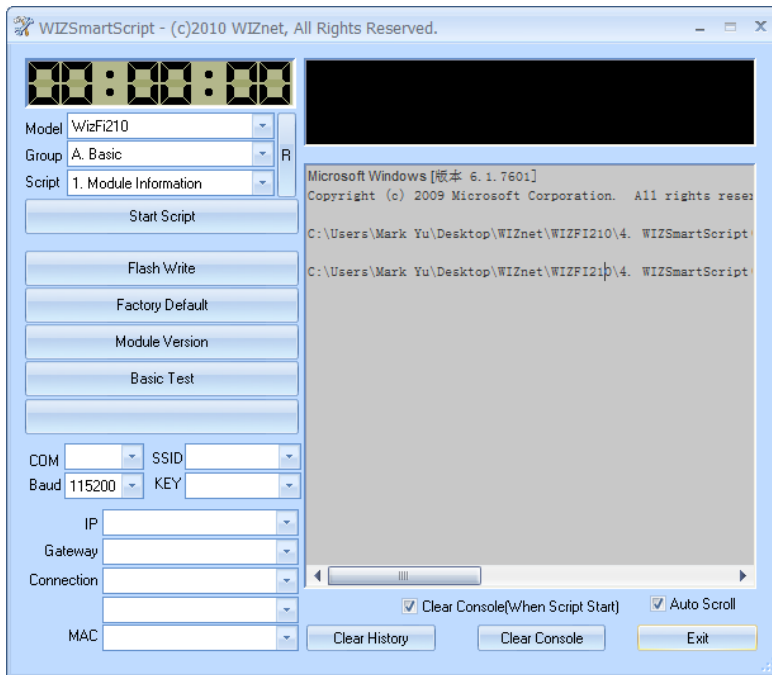
How to set up AP in WizFi210

1. F/W upgrade to 1.1.0.0(W)

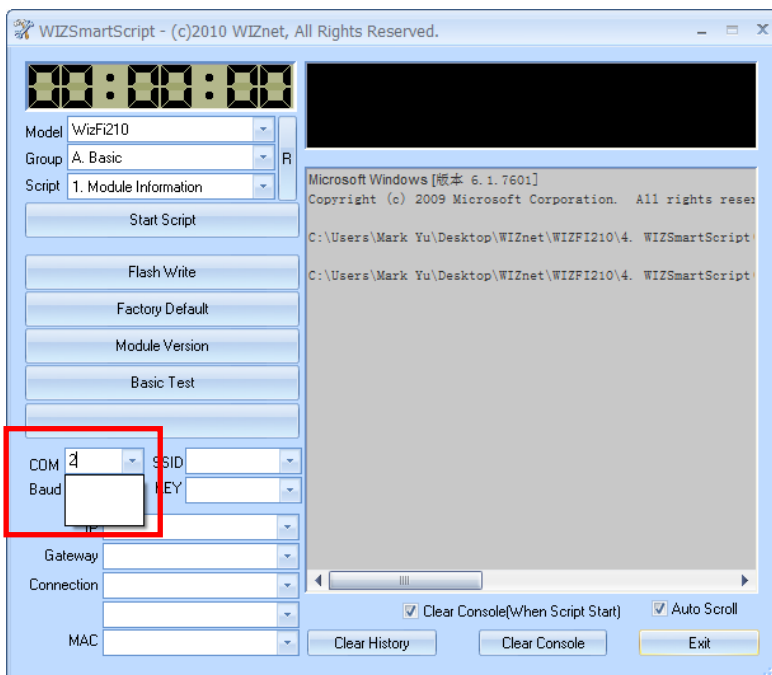
→How to upgrade F/W?

A. Open WIZSmartScript

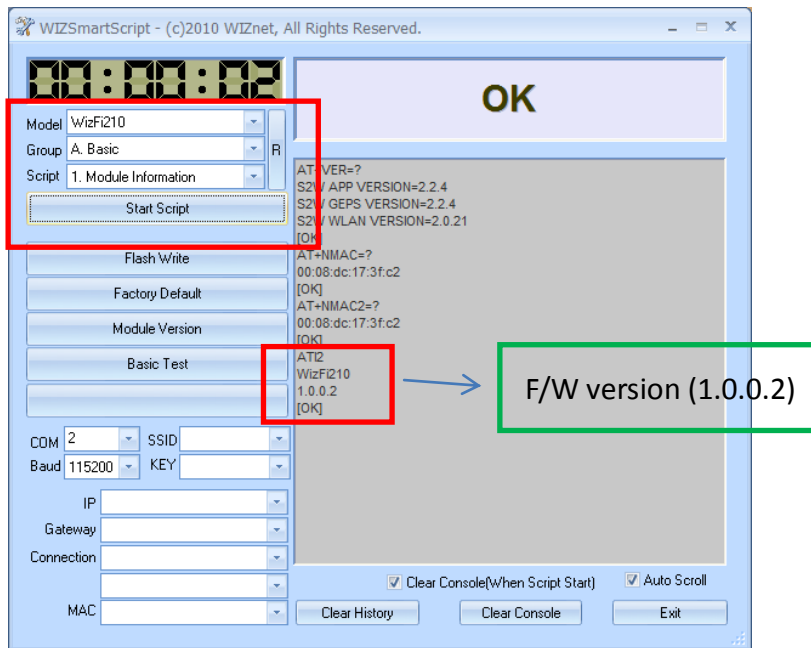
(Code : WizFi-Code and Key : ODVE-NJLG-QKE4-QUQ0-MZFB-MEVE)



B. Setting COM port



- C. Choose A.Basic and 1.Module Information and Click “Start Script” button,Check F/W version



PS: If the F/W version of WizFi210 is 1.1.0.0(W), user did not need to download one more time. Ignore step 1(D to L)

- D. Power OFF

- E. SW1 change to PROG mode(EVB)

Old version EVB:

(16) Interface

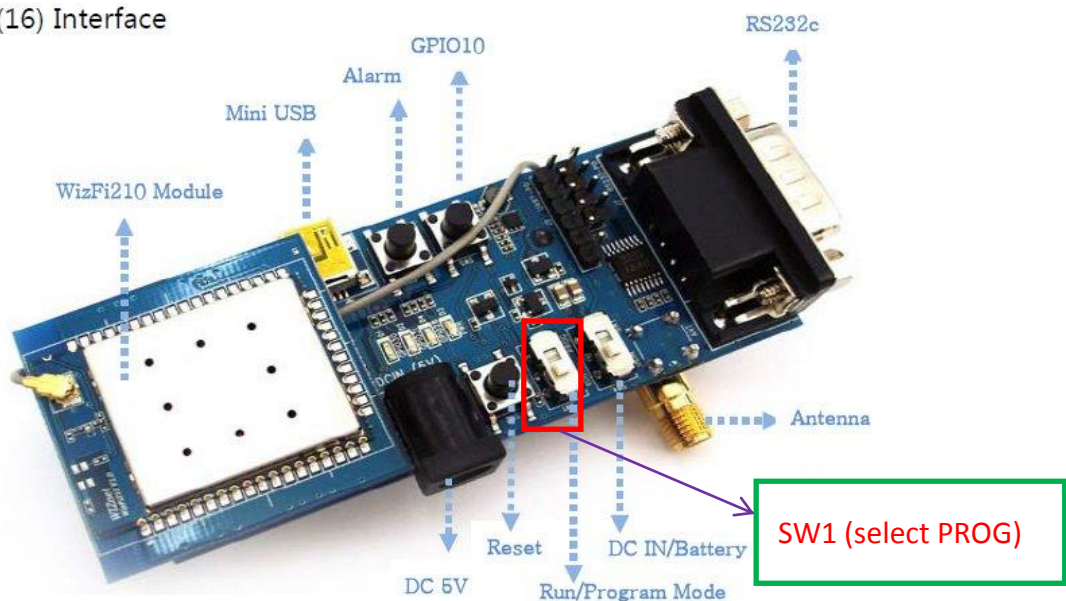
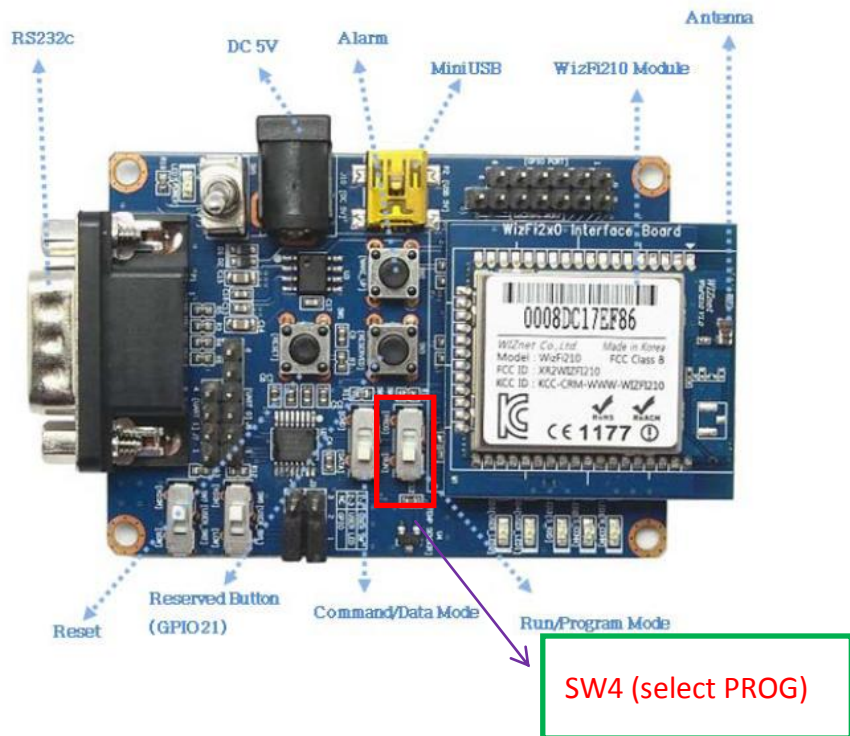


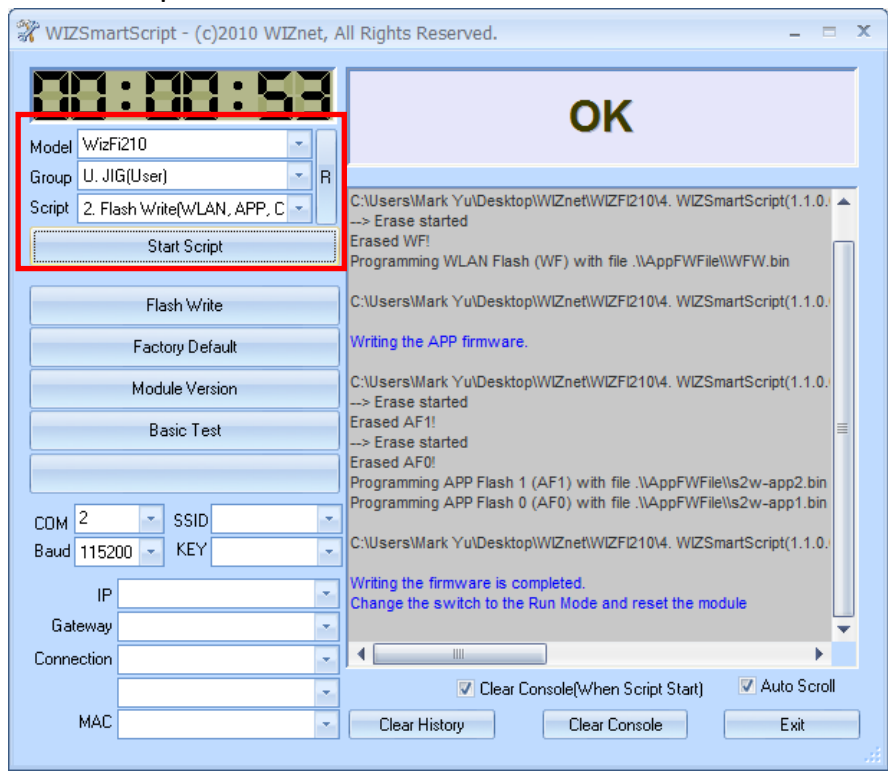
Figure 9. Interface

New version EVB:



F. Power ON

G. Choose U.JIG(User) and 2.Flash Write(WLAN,APP,Clear) and Click “Start Script” button



H. Power OFF after finished.

I. SW1 change to RUN mode(EVB)

Old version EVB:

(16) Interface

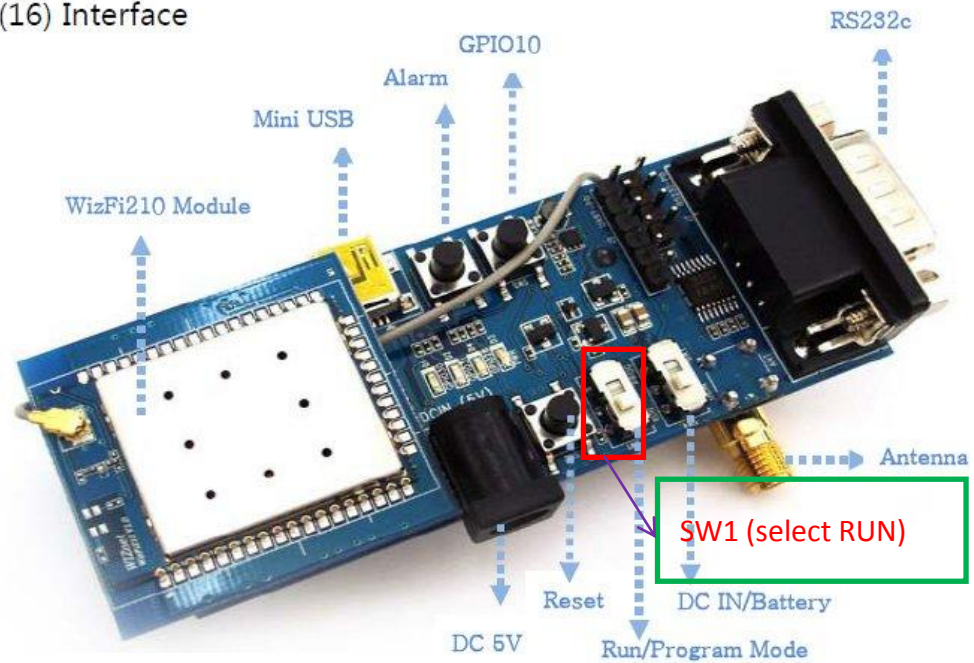
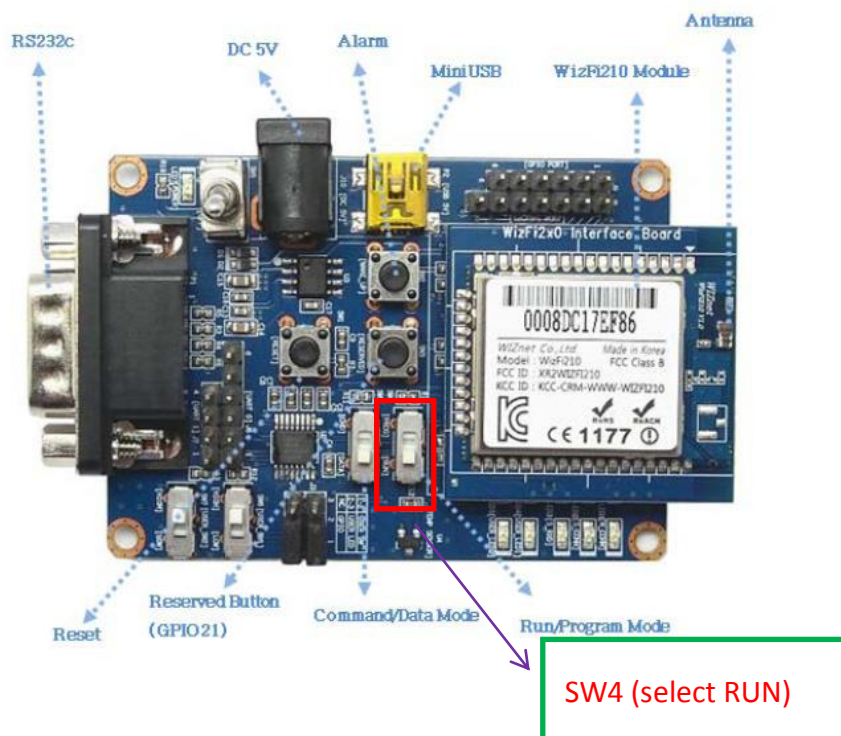


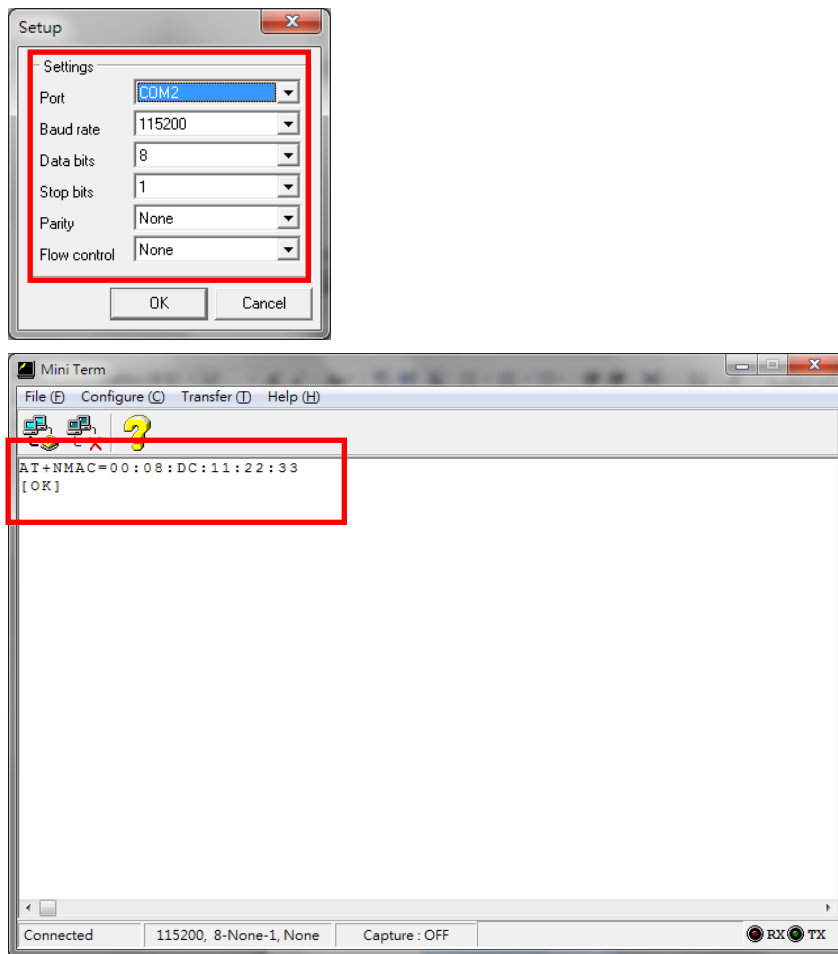
Figure 9. Interface

New version EVB:

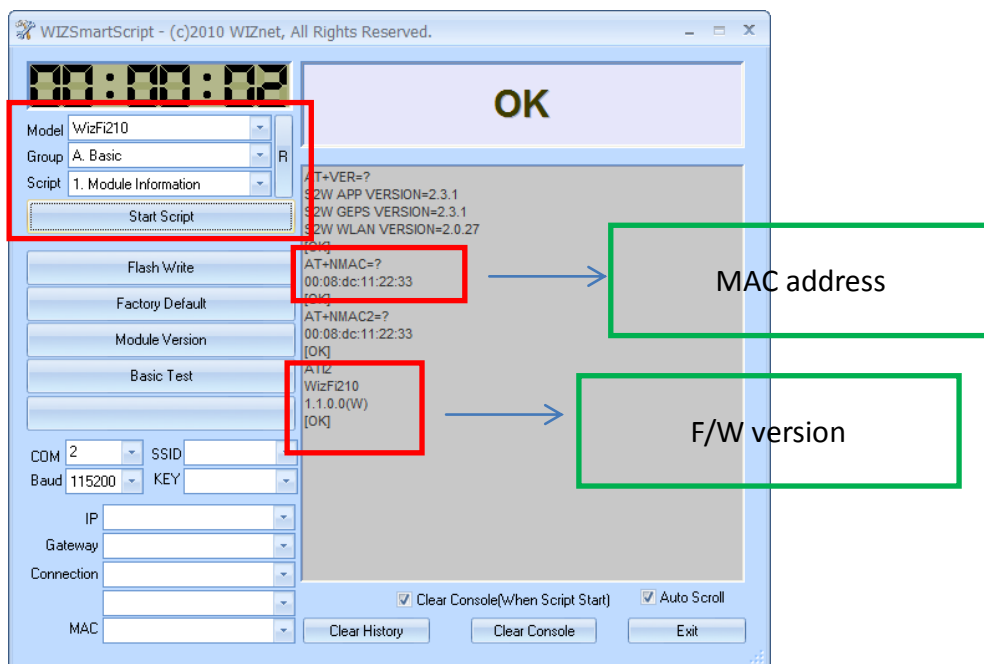


J. Power ON

- K. Open Mini terminal and input AT command
“AT+NMAC=00:08:dc:xx:xx:xx”.



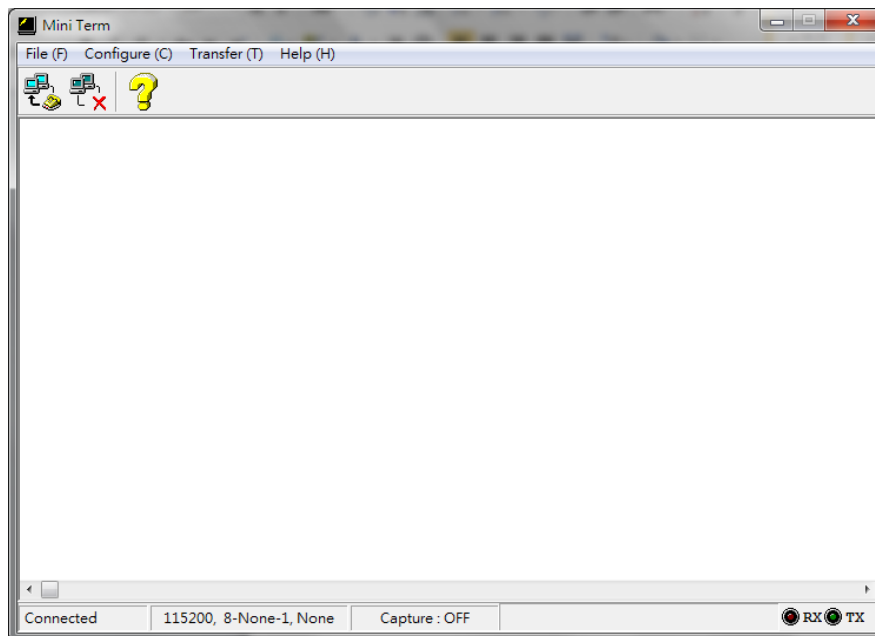
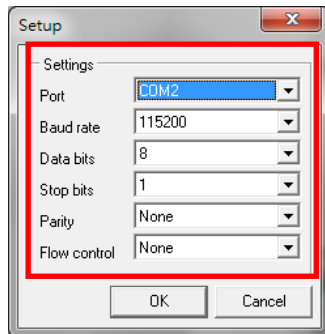
- L. Choose A.Basic and 1.Module Information and Click “Start Script”
button,Check MAC address and F/W version



2. Set up AP in WizFi210 test(TCP Server mode)

→How to test?

A. Open Serial program

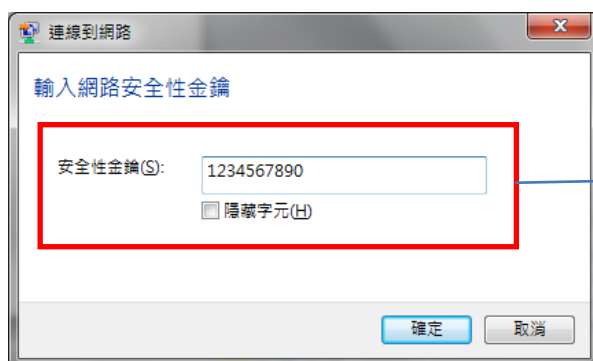


B. Use AT commands to set up AP in WizFi210(TCP Server)

```
Mini Term
File (F)  Configure (C)  Transfer (T)  Help (H)
[OK]
AT & F
[OK]
AT+WD
[OK]
AT+WM=2
[OK]
AT+WAUTH=2
[OK]
AT+WWEF1=1234567890
[OK]
AT+NDHCP=0
[OK]
AT+NSET=192.168.12.1,255.255.255.0,192.168.12.1
[OK]
AT+WA=WizFi210
      IP          SubNet          Gateway
192.168.12.1: 255.255.255.0: 192.168.12.1
[OK]
AT+NAUTO=1,1,,3000
[OK]
ATA2
[OK]
```

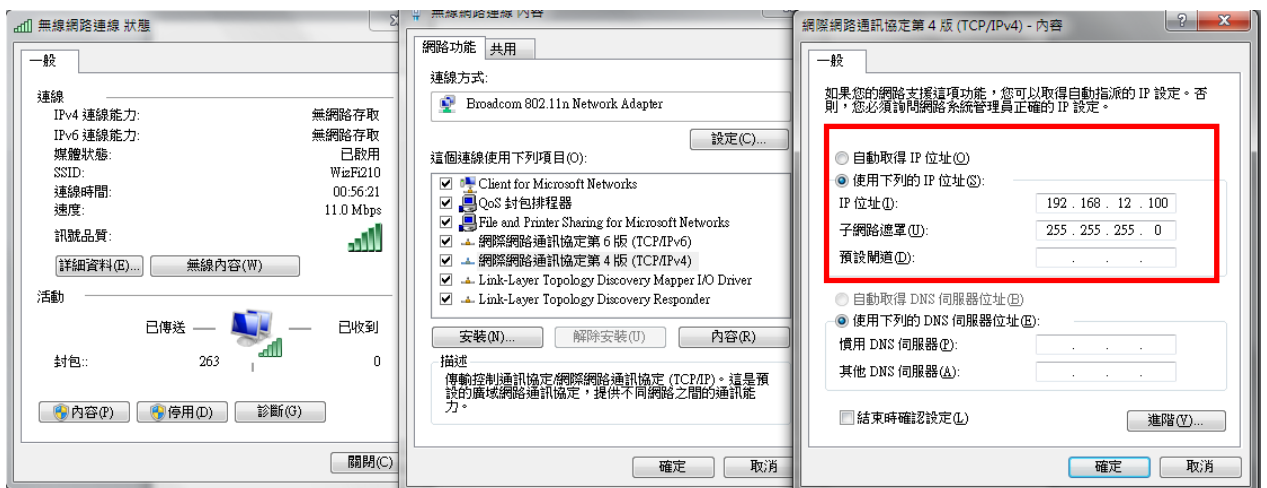
Connected | 115200, 8-None-1, None | Capture: OFF | RX TX

C. PC connect to AP(WizFi210)



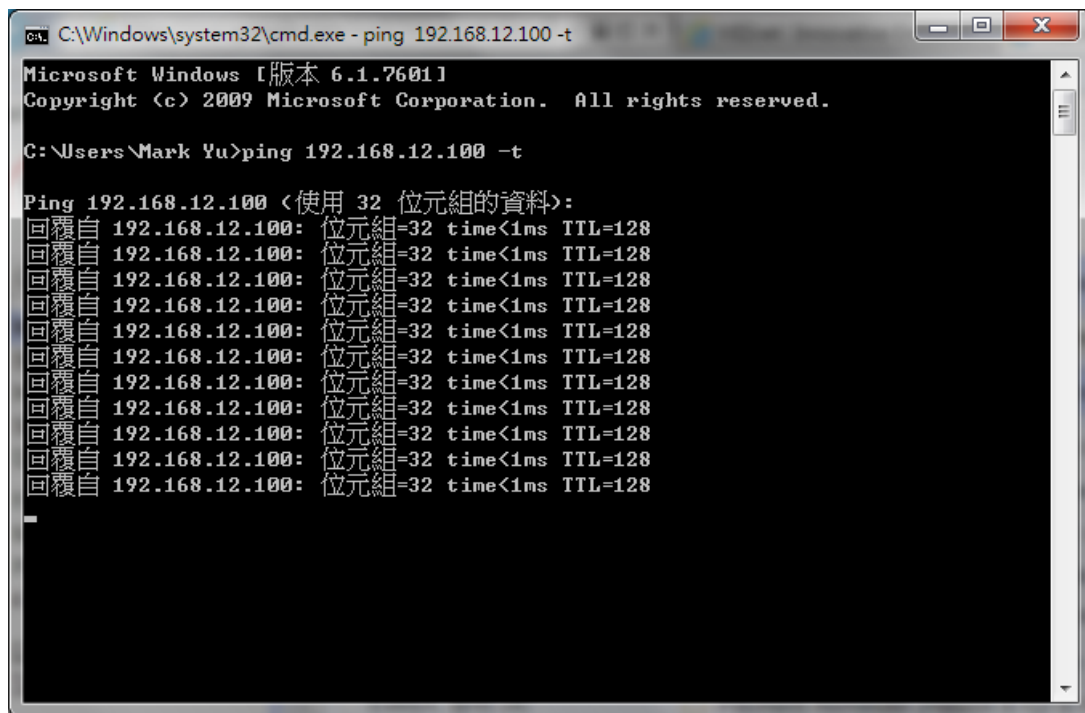
WEP key1: 1234567890

D. After PC connected to AP(WizFi210), please set PC use static IP(192.168.12.xxx) and subnet mask(255.255.255.0).



E. Ping test:

PC IP: 192.168.12.100 → ping 192.168.12.100 -t

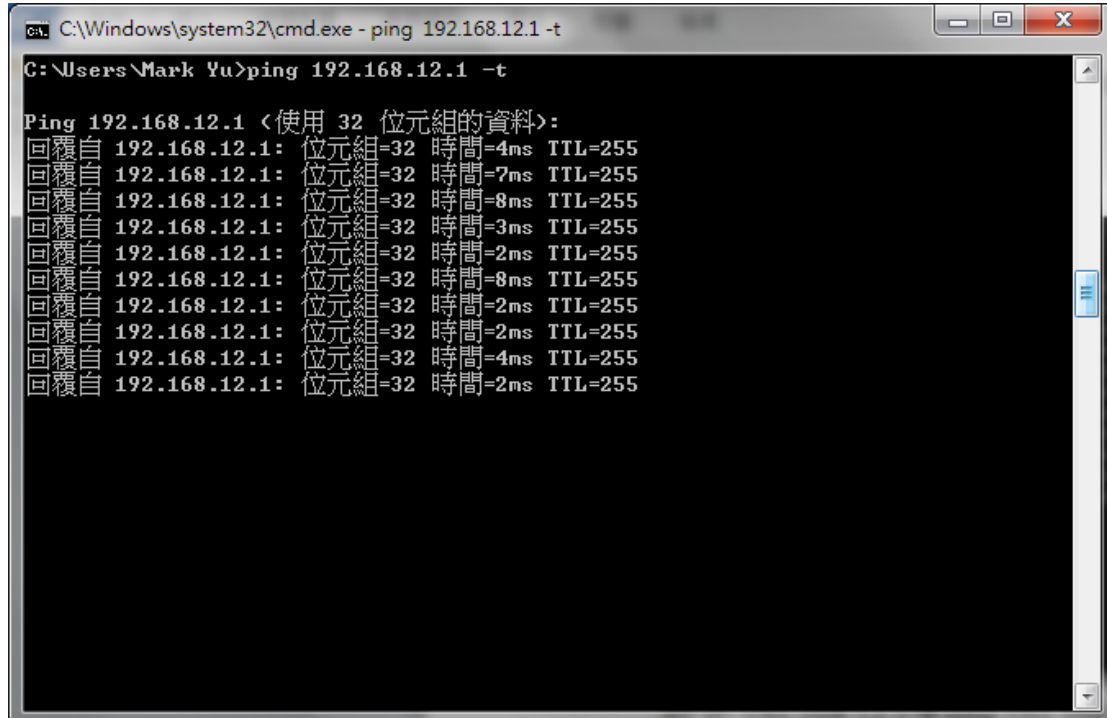


```
ca. C:\Windows\system32\cmd.exe - ping 192.168.12.100 -t
Microsoft Windows [版本 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Mark Yu>ping 192.168.12.100 -t

Ping 192.168.12.100 <使用 32 位元組的資料>:
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
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回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
```

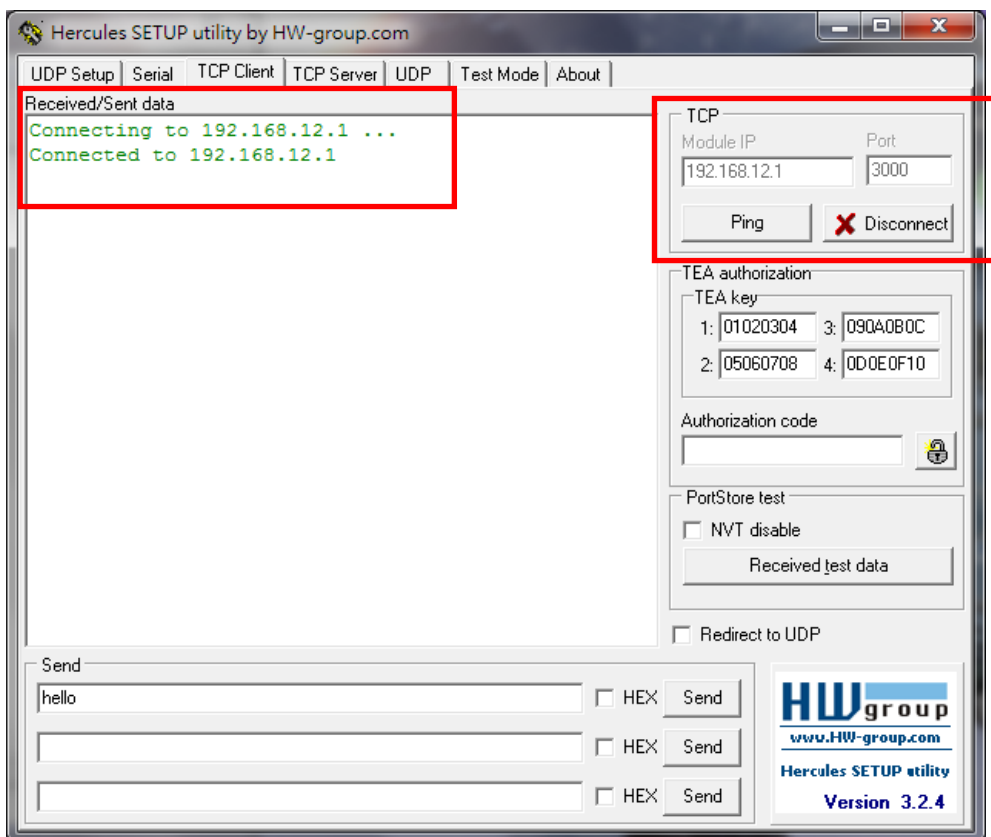
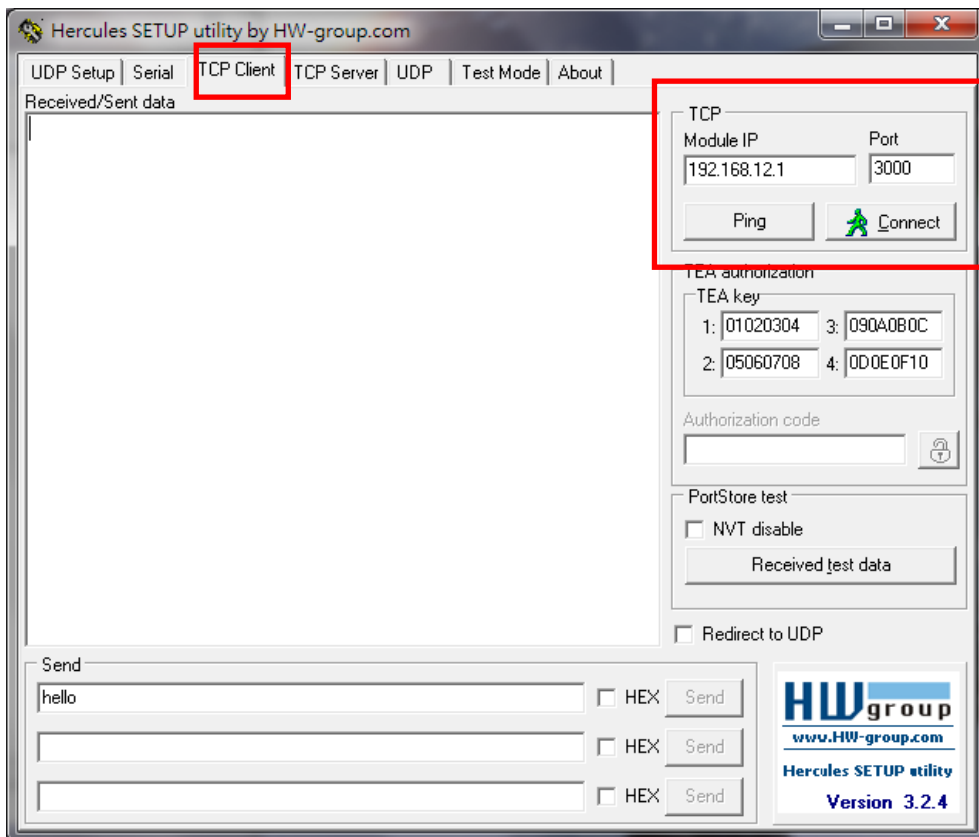
AP IP: 192.168.12.1 → ping 192.168.12.1 -t



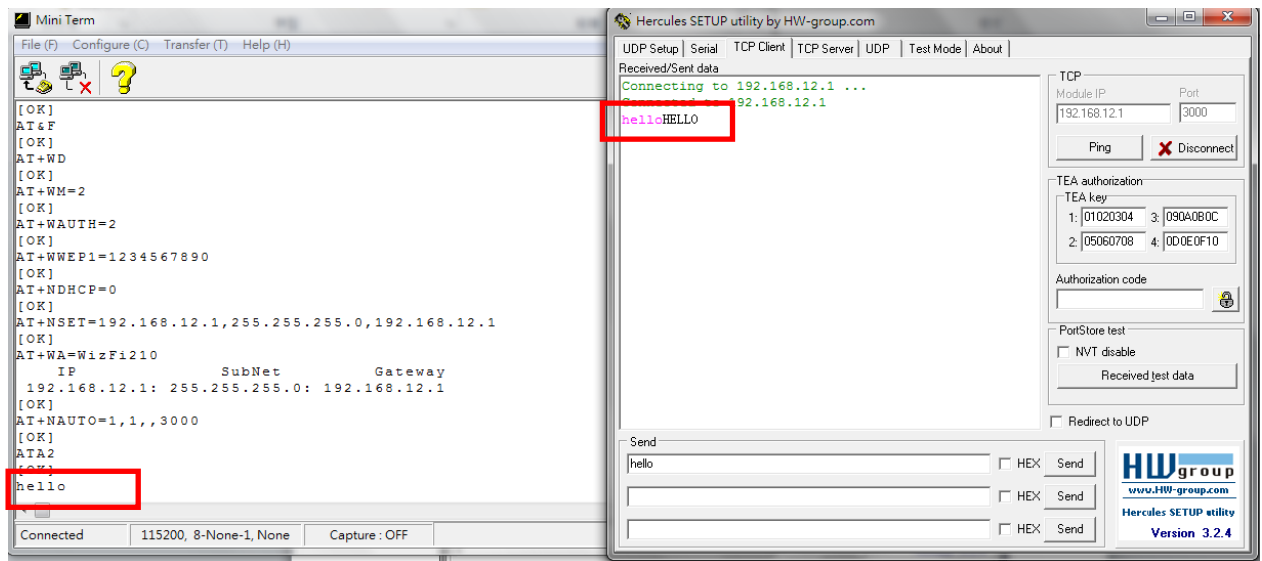
```
ca. C:\Windows\system32\cmd.exe - ping 192.168.12.1 -t
C:\Users\Mark Yu>ping 192.168.12.1 -t

Ping 192.168.12.1 <使用 32 位元組的資料>:
回覆自 192.168.12.1: 位元組=32 時間=4ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=7ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=8ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=3ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=2ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=8ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=2ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=2ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=4ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=2ms TTL=255
```

- F. Open TCP Client test program and connect to 192.168.12.1(AP's IP) by using port number 3000.



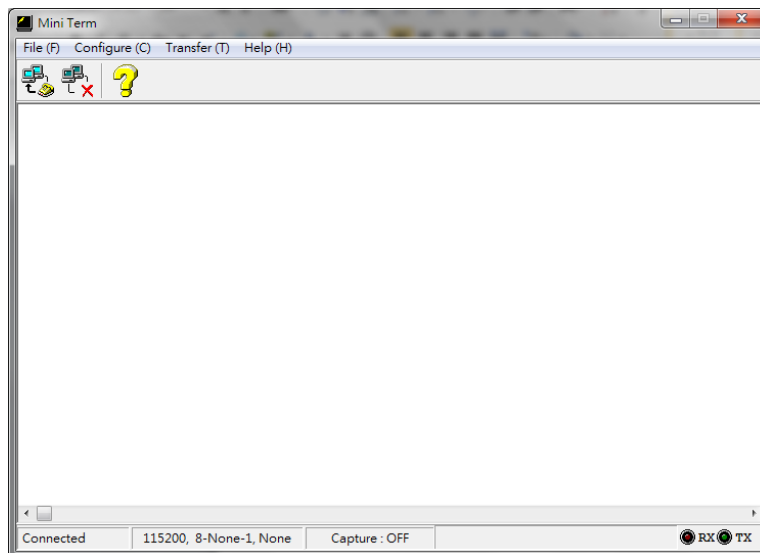
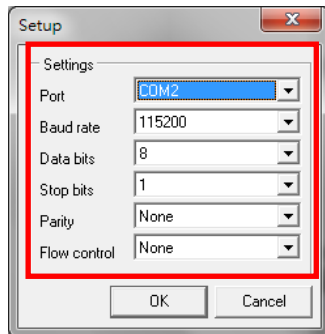
G. Serial to WiFi and WiFi to Serial test:



3. Set up AP in WizFi210 test(TCP Client mode)

→How to test?

A. Open Serial program

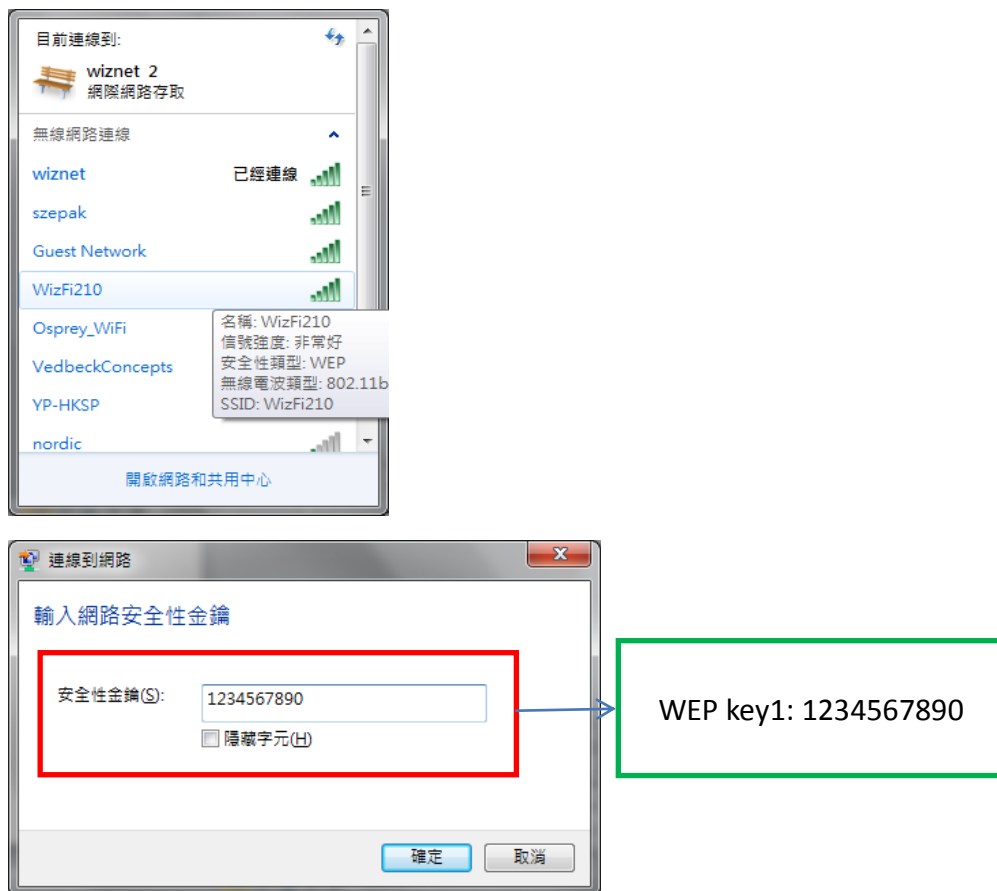


B. Use AT commands to set up AP in WizFi210(TCP Client)

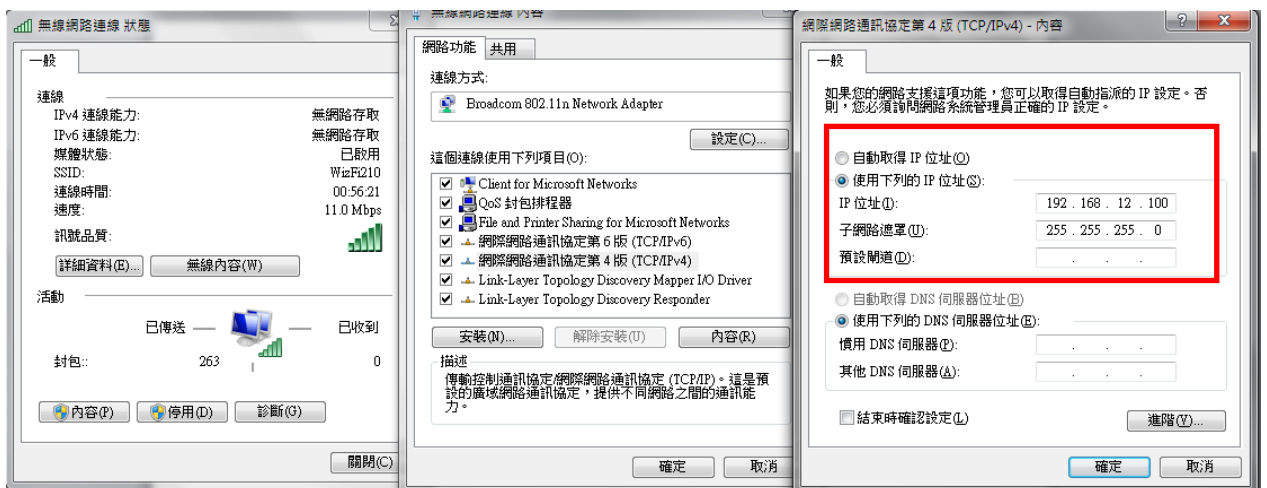
```
Mini Term
File (F) Configure (C) Transfer (T) Help (H)
[OK]
AT
[OK]
AT&F
[OK]
AT+WD
[OK]
AT+WM=2
[OK]
AT+WAUTH=2
[OK]
AT+WWE1=1234567890
[OK]
AT+NDHCP=0
[OK]
AT+NSET=192.168.12.1,255.255.255.0,192.168.12.1
[OK]
AT+WA=WizFi210
      IP          SubNet      Gateway
192.168.12.1: 255.255.255.0: 192.168.12.1
[OK]
AT+NAUTO=0,1,192.168.12.100,3000
[OK]
```

Connected | 115200, 8-None-1, None | Capture: OFF | RX TX

C. PC connect to AP(WizFi210)

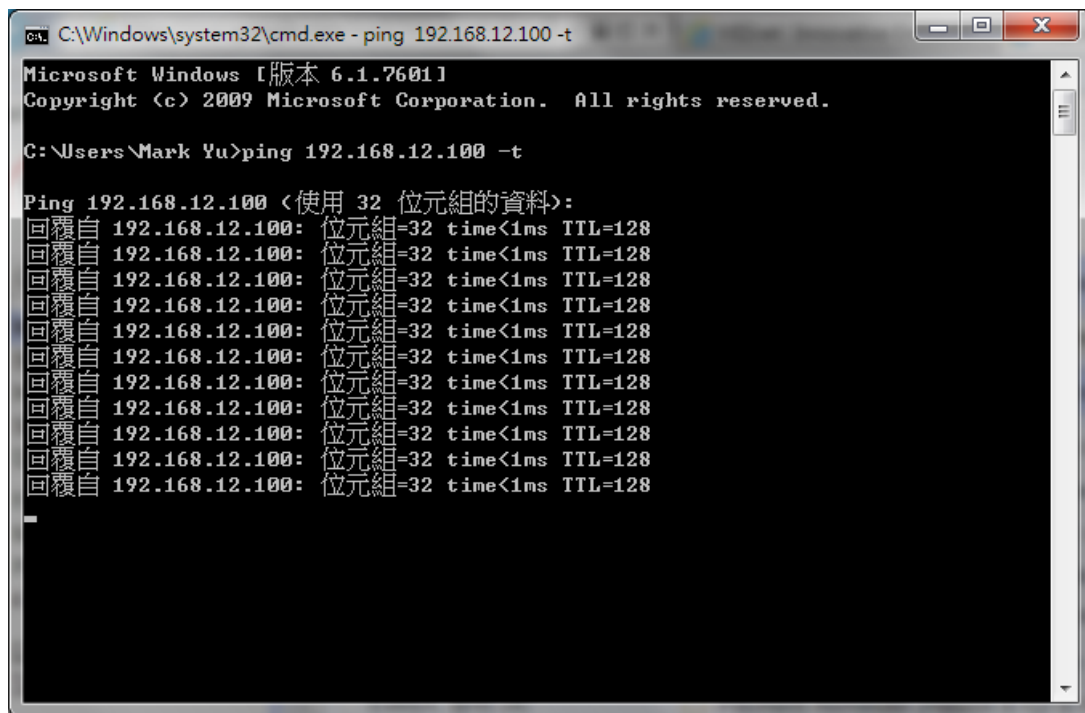


D. After PC connected to AP(WizFi210), please set PC use static IP(192.168.12.100)(Server IP) and subnet mask(255.255.255.0).



E. Ping test:

PC IP: 192.168.12.100 → ping 192.168.12.100 -t

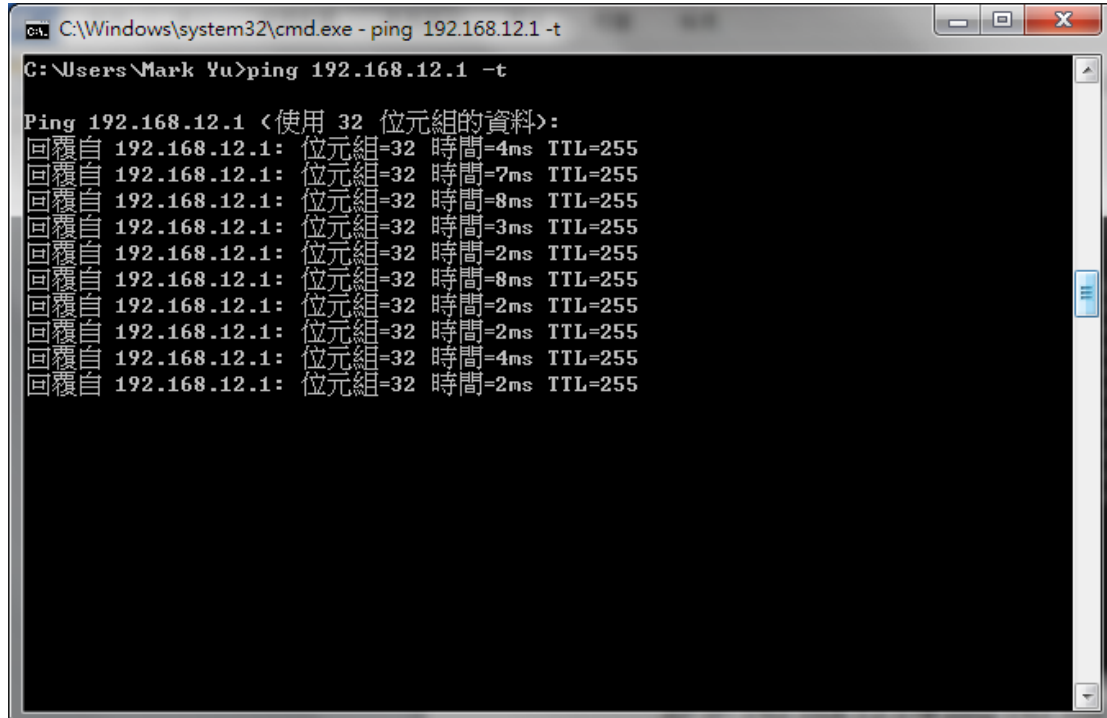


```
ca. C:\Windows\system32\cmd.exe - ping 192.168.12.100 -t
Microsoft Windows [版本 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Mark Yu>ping 192.168.12.100 -t

Ping 192.168.12.100 <使用 32 位元組的資料>:
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
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回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
回覆自 192.168.12.100: 位元組=32 time<1ms TTL=128
```

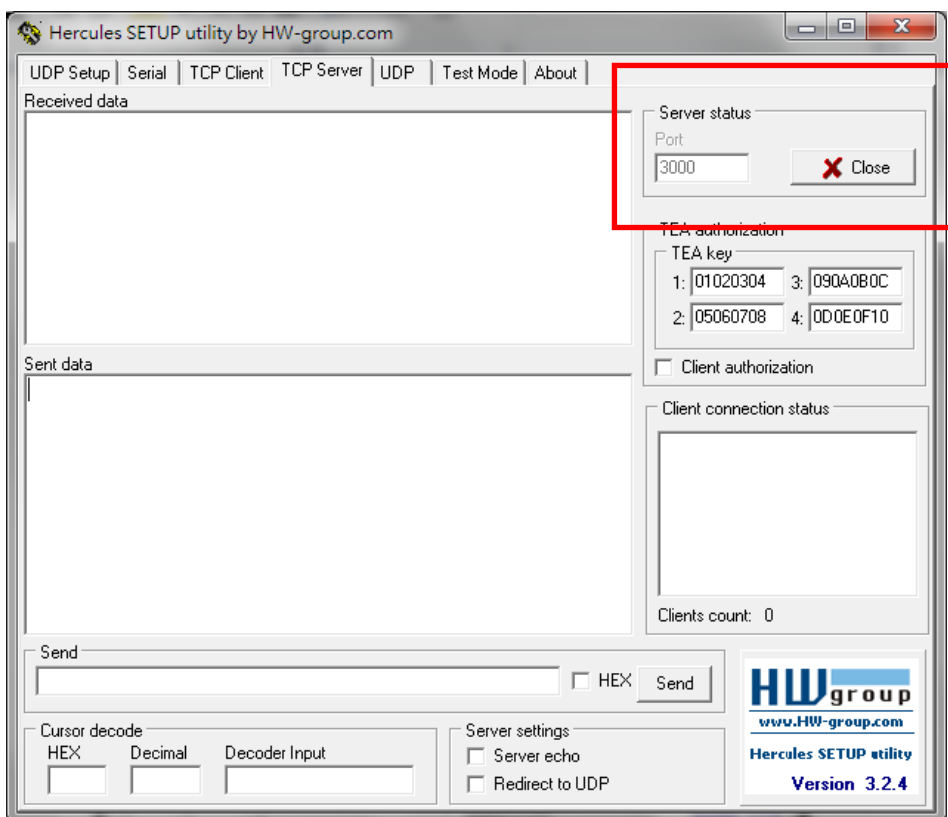
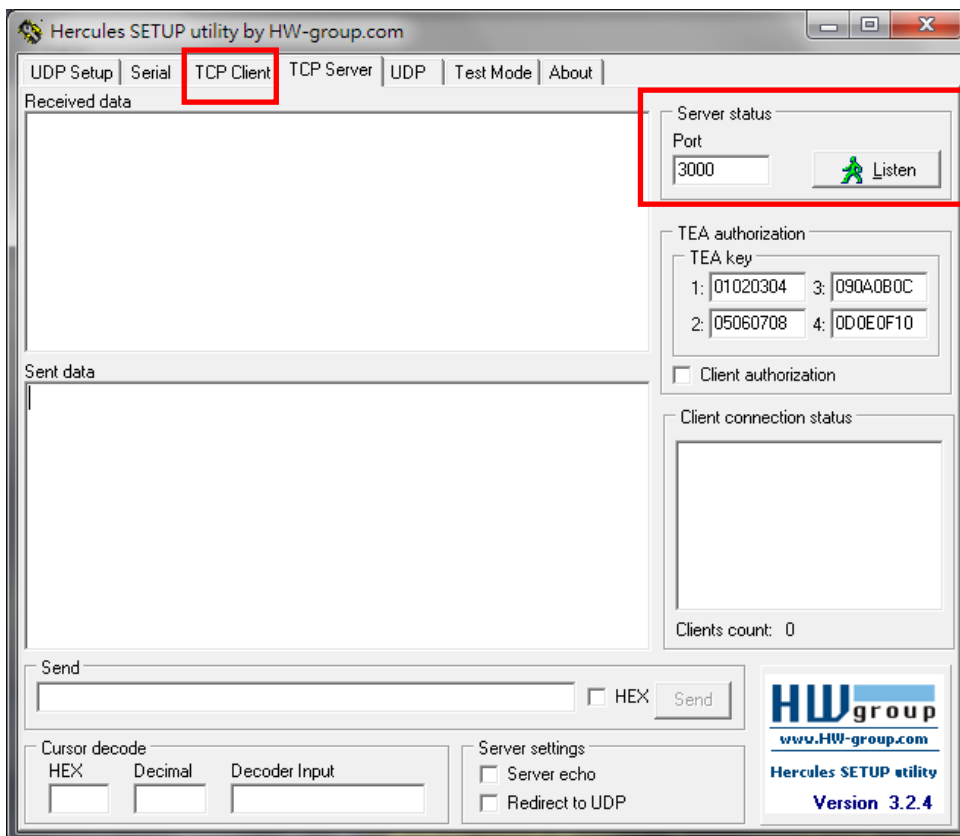
AP IP: 192.168.12.1 → ping 192.168.12.1 -t



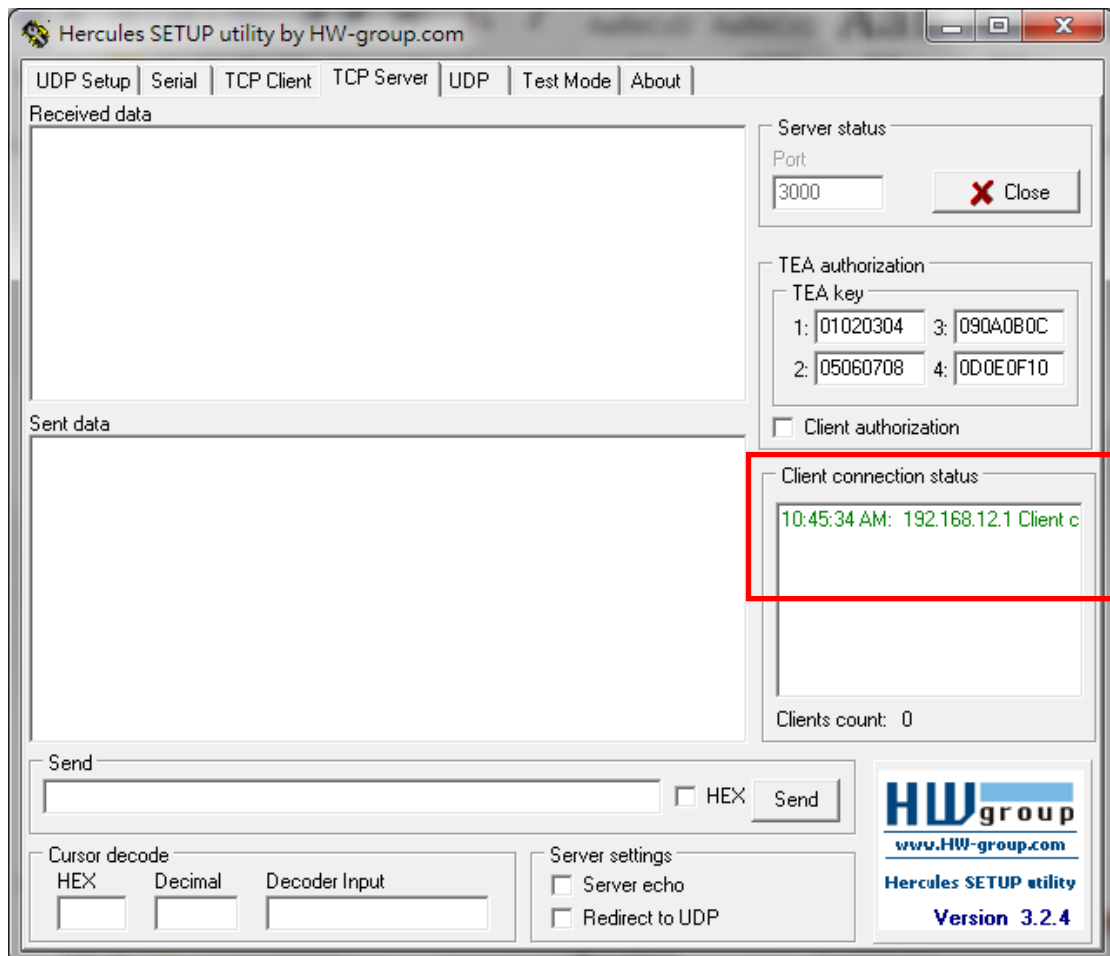
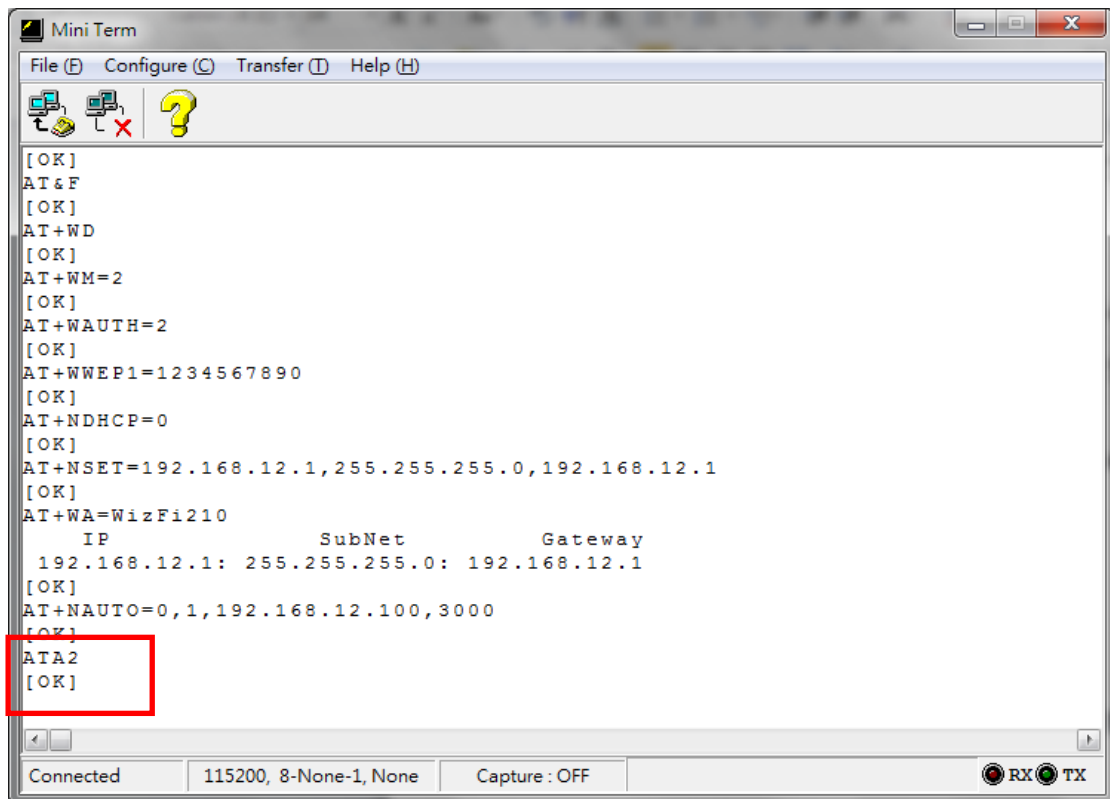
```
ca. C:\Windows\system32\cmd.exe - ping 192.168.12.1 -t
C:\Users\Mark Yu>ping 192.168.12.1 -t

Ping 192.168.12.1 <使用 32 位元組的資料>:
回覆自 192.168.12.1: 位元組=32 時間=4ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=7ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=8ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=3ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=2ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=8ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=2ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=2ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=4ms TTL=255
回覆自 192.168.12.1: 位元組=32 時間=2ms TTL=255
```

F. Open TCP Server test program and Listen port number 3000.



G. Use AT commands "ATA2" to connect to Server(PC)



H. Serial to WiFi and WiFi to Serial test:

The screenshot displays two windows side-by-side. The left window is a 'Mini Term' terminal showing AT commands and their responses. The right window is the 'Hercules SETUP utility' interface.

Mini Term Window:

```
[OK]
AT+F
[OK]
AT+WD
[OK]
AT+WM=2
[OK]
AT+WAUTH=2
[OK]
AT+WWEF1=1234567890
[OK]
AT+NDHCP=0
[OK]
AT+NSET=192.168.12.1,255.255.255.0,192.168.12.1
[OK]
AT+WA=WizFi210
      IP           SubNet       Gateway
192.168.12.1: 255.255.255.0: 192.168.12.1
[OK]
AT+NAUTO=0,1,192.168.12.100,3000
[OK]
ATA2
[OK]
hello
```

Hercules SETUP utility Window:

- Received data:** HELLO
- Sent data:** hello
- Server status:** Port: 3000
- TEA authorization:** TEA key 1: 01020304, 3: 090A0B0C, 2: 05060708, 4: 0D0E0F10
- Client connection status:** 10:45:34 AM: 192.168.12.1 Client c
- Client count:** 0
- Send:** hello
- Cursor decode:** HEX: 4F, Decimal: 79
- Server settings:** Server echo, Redirect to UDP

HW group logo and version 3.2.4 are visible in the bottom right corner of the Hercules SETUP utility window.