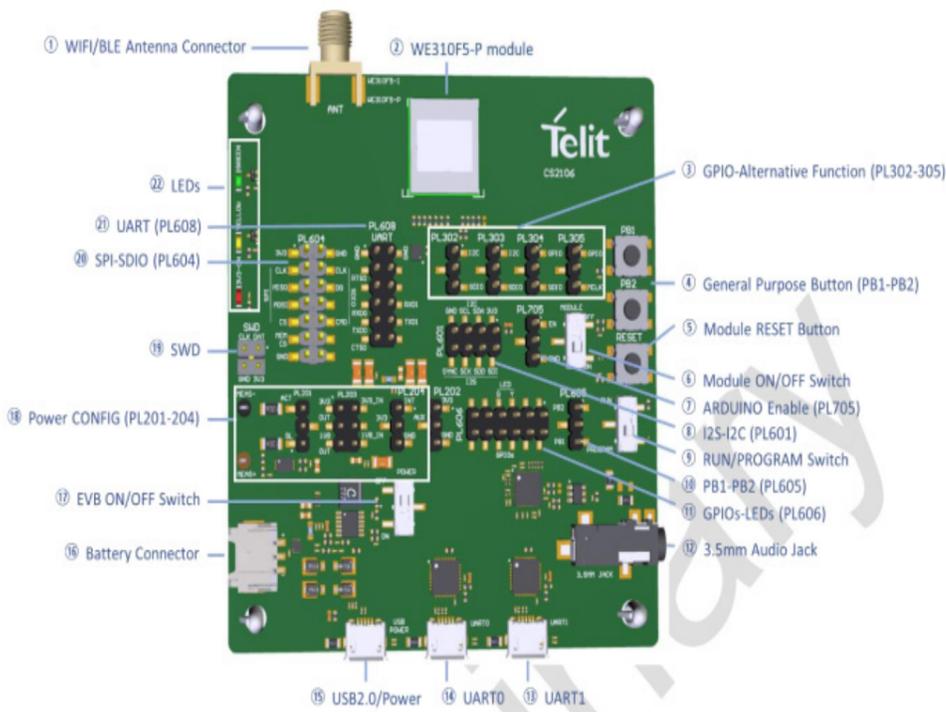


WE310F5-I/P Evaluation Board Quick Start Guide

This Quick Start Guide will walk you through the easy steps required to setup and run the WE310F5 evaluation board for Serial-to-Wireless application.



You will need the following items:

- Quick Start Guide (this document)
- WL865E4-P Evaluation Board
- Micro-USB Cable
- Programming tools and binaries
-
-

1 Program the WE310F5 Module

Step 1 Plug the micro-USB cable, one end of the USB port to WL865E4-P Evaluation board and the other end in of the USB port to the computer or laptop.

Step 2 Plug in another micro-USB cable into the UART1 port on the WE310 EVB and plug the other end into the USB port on your computer.

Step 3 Turn the PROGRAM/RUN switch to PROGRAM

Step 4 Select the options to program the WE310 Evaluation board. Load the S2W firmware and binaries from the Downloaded zip folder which contains three binaries.

- km0_boot_all.bin BIN File
- km0_km4_image2.bin BIN File
- km4_boot_all.bin BIN File

Step 5 Open image tool. Click the Browse button and select the first binary “km0_boot_all.bin” from your computer. Select second binary “km4_boot_all.bin” and the third one “km0_km4_image2.bin” at last and the click on the Download button.

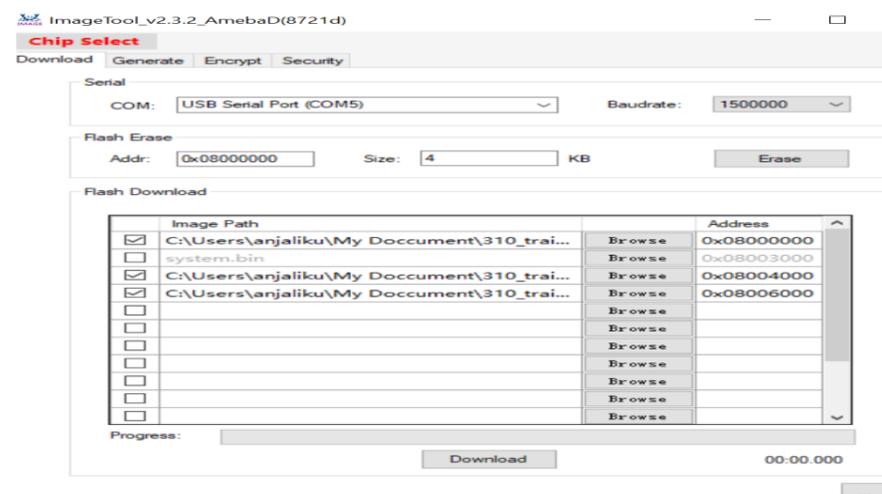
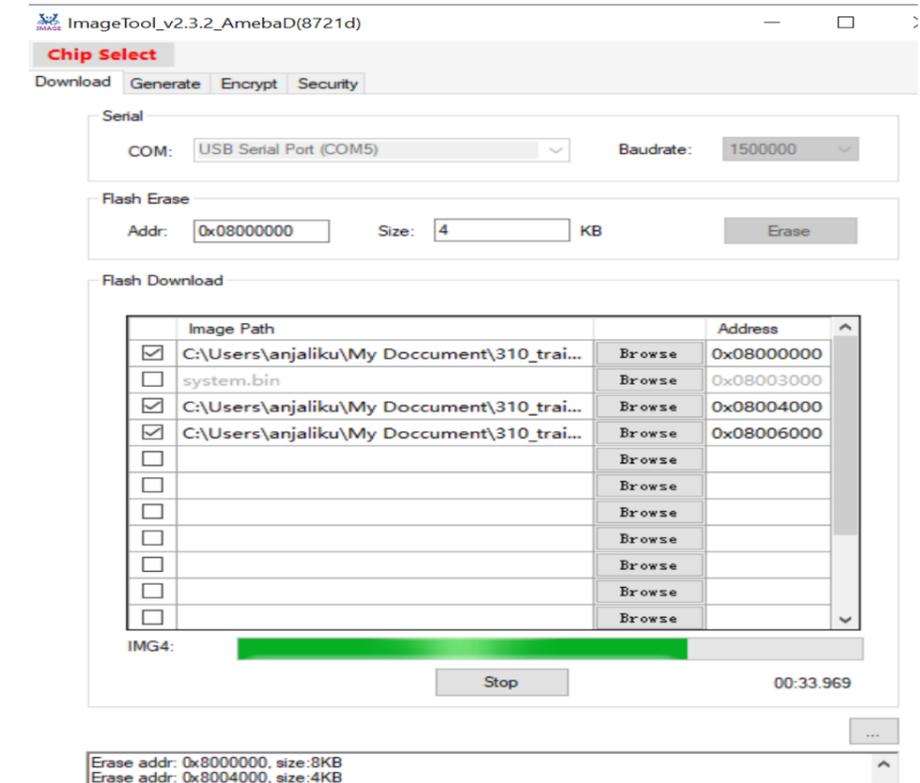


Image shows the tool details before clicking the download button

After clicking the Download button, a progress bar is seen which is as seen below:

NOTE: UART port should not be open in any other application while flashing the Image.



2 Run the WE310F5 Module

Step 1 After Flashing the image close the “image tool” window and turn the PROGRAM/RUN switch to Run mode on the WE310 board, reset the board using the power ON/OFF button.

Step 2 Open the teraterm and set the baud rate:

3 Wireless Operations

The following use cases describes the wireless operations of the WE310F5 module using legacy and non-legacy commands. The WE310F5 module supports two modes of operations:

- Station Mode
- Limited AP Mode

Use Case 1: Configure WE310F5 module using AT Command

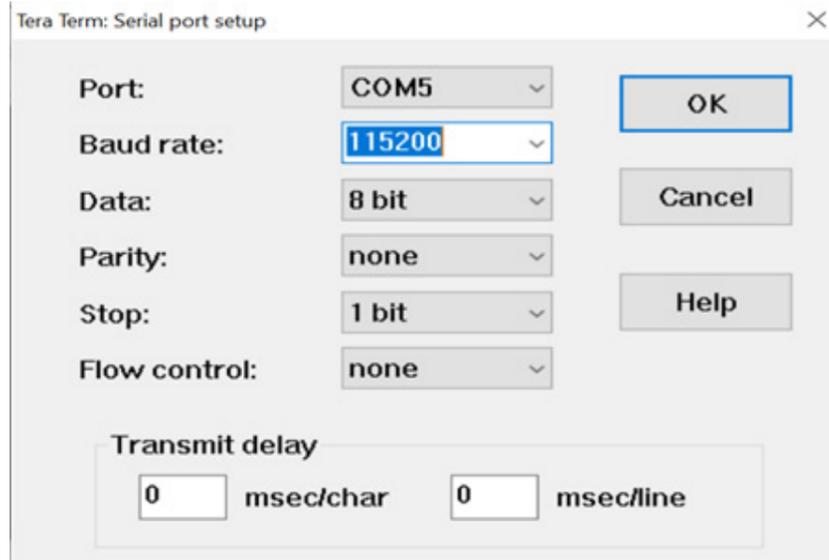
Station Mode

Following commands are used to configure the WE310F5 node in station mode. Associate the node to WPA2 Secured Wi-Fi network.

Where,

Module SSID is : roshan and,
Passphrase is: rosh@0987

To set in station mode: AT+WNI=0
To scan the available AP: AT+WS=1
To connect the network to L3:
AT+WNCN=1,"roshan","rosh@0987"



Step 3 Once the baud rate is set, the basic logs are as seen from the board:

```
COM5:115200baud - Tera Term VT
File Edit Setup Control Window Help
#calibration_ok:[2:19:11]
FATFS Register: disk driver 0

WIFI is not running
Initializing WIFI ...
WIFI initialized

LwIP_DHCP: dhcp stop.
Deinitializing WIFI ...
WIFI deinitialized
Serial2Wireless APP
```

```
COM6:115200baud - Tera Term VT
File Edit Setup Control Window Help
Serial2Wireless APP
AT+WNI=0
+WNI:1

OK
AT+WS=1
+WS:A0:AB:1B:0D:3D:2C,"SNR0303",1,INFRA,-69,WPA2_PSK
+WS:1C:5F:2B:DC:FB:D4,"RamSai05F-1",1,INFRA,-104,WPA2_PSK
+WS:90:8D:78:70:BE:EB,"Snrpg0203",1,INFRA,-109,WPA2_PSK
+WS:34:E3:80:25:09:D8,"Genexis.101",3,INFRA,-104,WPA2_PSK
+WS:AC:84:C6:B8:0D:F5,"roshan",4,INFRA,-57,WPA2_PSK
+WS:B8:C1:AC:9E:00:6D,"ajr Wi-Fi ",5,INFRA,-79,WPA2_PSK
+WS:40:9B:CD:40:F2:98,"SLUG2A_2G",5,INFRA,-102,WPA2_PSK
+WS:80:14:A8:F0:40:2C,"SNR 402 MAIN",6,INFRA,-92,WPA2_PSK
+WS:C8:3A:35:32:DF:38,"RamSai05F-2",6,INFRA,-105,WPA_ENTERPRISE
+WS:34:E3:80:2D:F2:98,"B Bijou",9,INFRA,-64,WPA2_PSK
+WS:44:FB:5A:95:90:1C,"The Legends of Future ",9,INFRA,-73,WPA2_PSK
+WS:E4:CA:12:AE:5E:D0,"PSBoy2",11,INFRA,-95,WPA2_PSK

OK
AT+WNCN=1,"roshan","rosh@0987"
+WNCN:CONNECTED,192.168.0.105,255.255.255.0,192.168.0.1

OK
```

Limited AP Mode

```
COM6:115200baud - Tera Term VT
File Edit Setup Control Window Help
Serial2Wireless APP
AT+WNI=1
+WNI:0

OK
AT+WNI PC=0,1,192.168.112.1,255.255.255.0,192.168.112.1
INVALID PARAM
AT+WNI PC=0,1,192.168.113.1,255.255.255.0,192.168.113.1
OK
AT+WNAI PC=0,192.168.113.2,192.168.113.10,864000
OK
AT+WNCR=0,"Telit",6,"WPA","AES","1234567890"
ERROR
AT+WNCR=0,"Telit_LAP",6,"WPA2","AES","1234567890"
+WNCR:CREATED

OK
```

Technical and Product Support

For any clarification, technical and product support, please email to Telit Technical Support at:

TS-SRD@telit.com

We recommend adding “Wi-Fi” in subject of the email. For example, the subject of email can be “Wi-Fi: Association failing”, “Wi-Fi: SPI Driver Issue”.

Also, in description of your email, please provide details about the issue, product, module and use case including software firmware version, module version and type, application being used, customizations done to application, use case and issue frequency and ability to recreate it.

Information

For information, please refer to the following documents:

- *WE310F5 AT Command Reference Guide*
 - For detailed description of every AT command
- *WE310F5 Module Hardware User Guide*
 - For detailed description of the hardware solutions for developing a product with Telit WL865E4-P module
- *WE310F5 EVB User Guide*
 - For evaluation board description and hardware setup, jumper-settings, component description, board specifications, and pin outs

For further information, please visit the website link:

<https://www.telit.com/products/wifi-and-bluetooth/#wifi>