WE310F5 Evaluation Board
Quick Start Guide

This Quick Start Guide will walk you through the basic setup required to run the Serial-to-Wireless application.

The WE310F5 module evaluation board is available in two variants:

- **WE310F5-I** includes an antenna
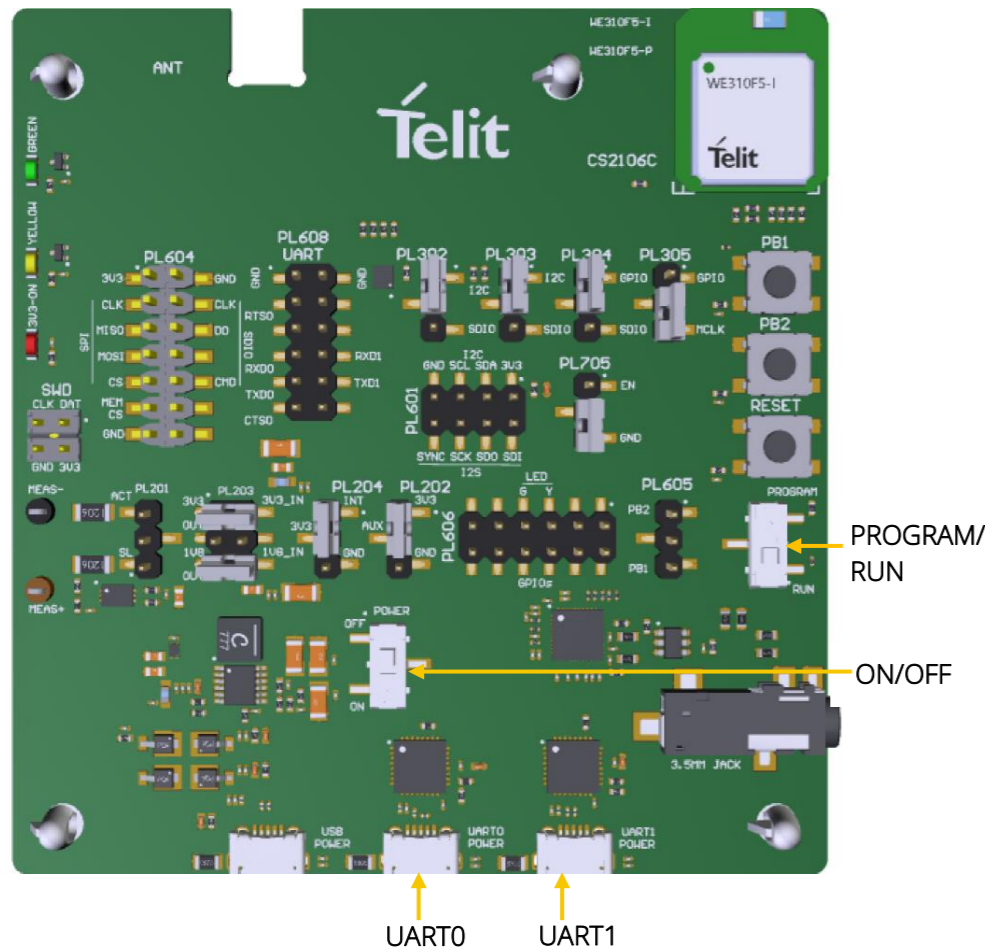- **WE310F5-P** includes only the RF PAD and requires an external antenna.

Figure 1: WE310F5-I EVB

The external antenna variant WE310F5-P EVB has the RF connector as shown in the figure below:
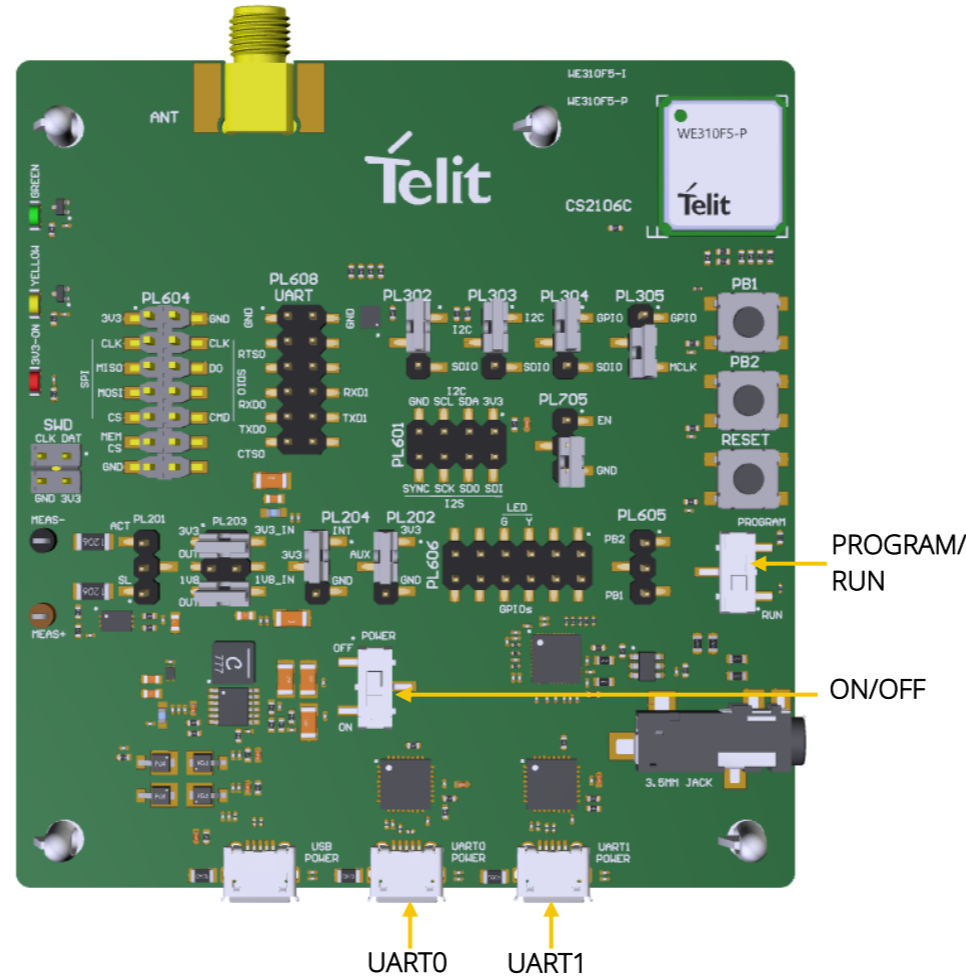

Figure 2: WE310F5-P EVB

Kit Contents

- WE310F5 EVB Quick Start Guide (this document)
- WE310F5 Evaluation Board
- 1 Micro-USB Cable
- Antenna in case the "WE310F5-P" module
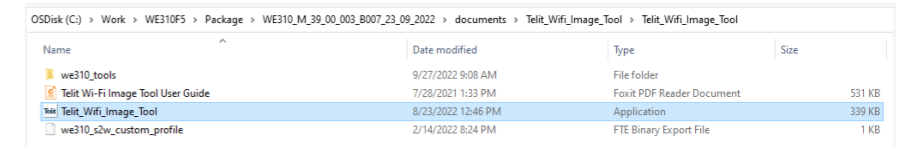
Prerequisites

- Install Tera Term

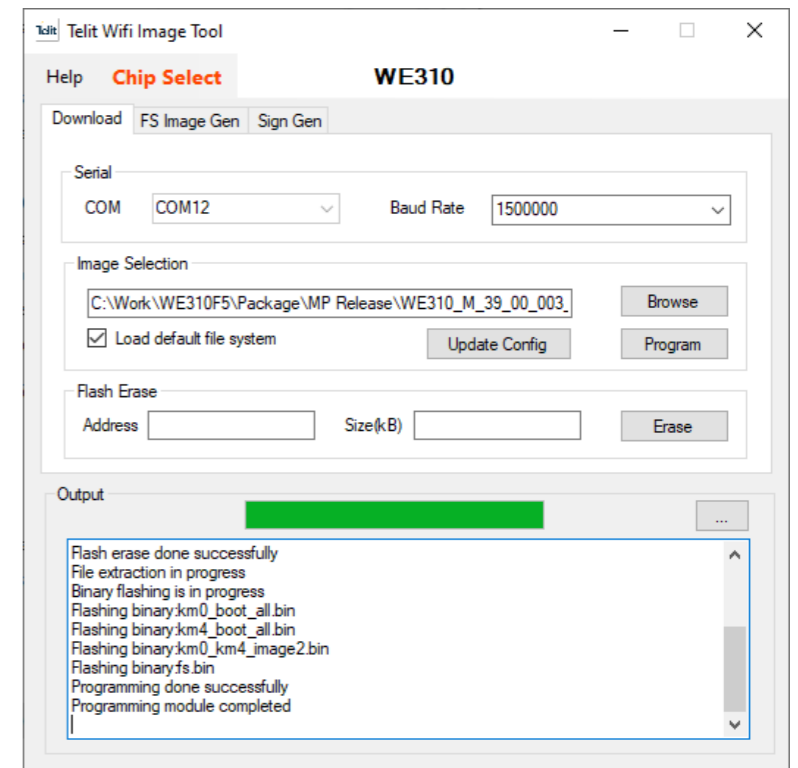**Note:** The ports required for Program and Run mode:

- UART0 Port: Run Mode
- UART1 Port: Programming Mode

1 Program the WE310F5 Module

1. Connect a Micro USB cable, one end to your PC/Laptop and the other to the WE310F5 EVB's UART1 Port (Evaluation board).
2. Toggle the **PROGRAM/RUN** switch to **PROGRAM**.
3. Download and unzip the latest firmware package from the *Telit Download Zone* (WE310>WE310F5>Firmware Release & Release Note).
4. Navigate to the \Downloads\Telit_WE310_M_39.00.00x\documents\Telit_Wifi _Image_Tool.zip file and launch the Telit_Wifi_Image_Tool.exe application.

5. Select the appropriate **COM** Port and click **Browse** to navigate to the **s2w.bin** file in the downloaded package.

6. To initiate flash, select **Load default file system** and then click **Program**.
7. Once the flash process is complete, click **OK**.

The WE310F5 EVB is now ready to configure.

2 Run the WE310F5 Module

1. Disconnect and reconnect the micro-USB cable from **UART1** to the **UART0** port.
2. Change the toggle switch position to **RUN**.
3. To power the board, toggle the **ON/OFF** switch to the **ON** position.
4. Now, launch the **Tera term** application that you have installed on your laptop.
5. Go to **File->New Connection**.
6. Select the **Appropriate COM Port** and click **OK**.
7. Go to **Settings->Serial Port**, set the **Baud Rate** as 115200, and click OK.

The WE310F5 EVB is now ready for use.

3 WiFi Operations

The following use cases describe the WiFi operations of the WE310F5 module. The WE310F5 module supports two modes of operations:

- Station Mode
- Limited AP Mode

Station Mode

To configure the module in Station Mode, configure an Access Point with an Open/Secured Network. In this case, the configuration is a secure network.

1. To start the WLAN Interface
```
AT+WNI=0
```
2. To connect to a network
```
AT+WNCN=1,"test","demo@123"
```


Limited AP Mode

To configure the WE310F5 In LAP Mode:

1. To set the module in AP Mode
```
AT+WNI=1
```
2. To set the Static IP
```
AT+WNIPC=0,1,192.168.230.3,255.255.255.0,192.168.230.1
```
3. To set the DHCP server IP
```
AT+WNAPIPC=0,192.168.230.2,192.168.230.10,86400000
```
4. To create a Network
```
AT+WNCR=0,"TELIT",6,"WPA2-PSK","AES","1234567890"
```


4 Bluetooth® Operations

WE310F5 module supports the Bluetooth® Low Energy 5.3 version.

TIO Communication

To initiate the Bluetooth® Low Energy interface via TIO communication, use the following AT commands:
```
AT+BI=1
AT+BIOCAP=0
AT+BTIO=1
AT+BADVE=0
AT+BOAD
```


GATT Communication

To initiate the Bluetooth® Low Energy interface via GATT Communication, use the following AT commands:
```
AT+BI=1
AT+BATTRIB="pserv","uuid=12AA"
AT+BATTRIB="char","prop=0x1A","uuid=12A1"
AT+BATTRIB="charval","perm=0011","len=1","val=0x59"
AT+BATTRIB="COMPLETE"
AT+BADVE=1
AT+BOAD
```


5 Resource Links

For the latest Firmware Packages and product documentation downloads: *https://www.telit.com/we310f5-download-zone/*

6 Contact Information, Support

For technical support and general questions please e-mail:

- *TS-SRD@telit.com*

Alternatively, use:

https://www.telit.com/contact-us/