

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.

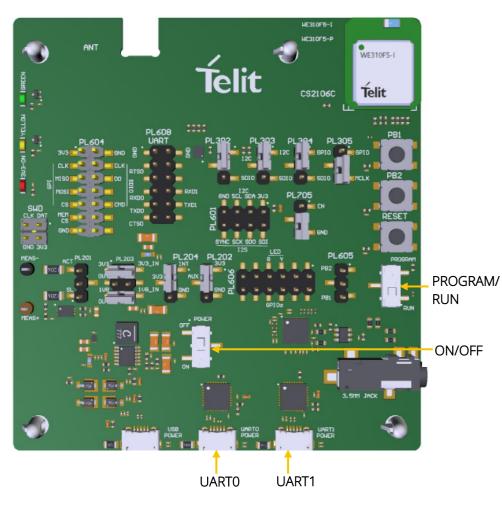


Figure 1: WE310F5-I EVB

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

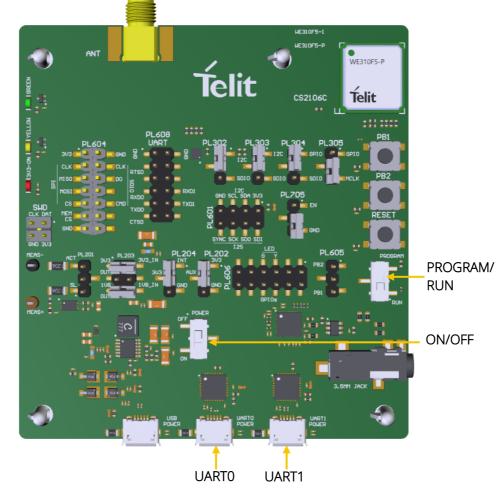


Figure 2: WE310F5-P EVB

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:
- UARTO Port: Run Mode
- UART1 Port: Programming Mode

- board).

3. Download and unzip the latest firmware package from the Telit Download Zone (WE310>WE310F5>Firmware Release & Release Note).

4. Navigate to the application.

ON/OFF

Disk (C:) > Work > WE310F5 > Package > WE310_M_39_00_003_B007_23_09_2022 > documents > Telit_Wifi_Image_Tool > Telit_Wifi_Image_Tool				
Name	Date modified	Туре	Size	
we310_tools	9/27/2022 9:08 AM	File folder		
👩 Telit Wi-Fi Image Tool User Guide	7/28/2021 1:33 PM	Foxit PDF Reader Document		531 KB
Telit_Wifi_Image_Tool	8/23/2022 12:46 PM	Application		339 KB
we310_s2w_custom_profile	2/14/2022 8:24 PM	FTE Binary Export File		1 KB

Telit Wifi Image Tool		-	- 🗆 X
lelp Chip Select	WE310		
Download FS Image Gen Sign	Gen		
Serial			
COM COM12	✓ Baud Rate 15	500000	~
Image Selection			
C:\Work\WE310F5\Package	e\MP Release\WE310_M_39_	00_003_	Browse
✓ Load default file system	Update C	Config	Program
Flash Erase			
Address	Size(kB)		Erase
Output			
Flash erase done successfully File extraction in progress Binary flashing is in progress Flashing binary:km0 boot all.bin			^
Flashing binary:km4_boot_all.bin Flashing binary:km0_km4_image Flashing binary:fs.bin	l		
Programming done successfully Programming module completed			
<u> </u>			¥

Program.

The WE310F5 EVB is now ready to configure.

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

2. Toggle the PROGRAM/RUN switch to PROGRAM.

\Downloads\Telit_WE310_M_39.00.00x\documents\Telit_Wifi _Image_Tool.zip file and launch the Telit_Wifi_Image_Tool.exe

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

7. Once the flash process is complete, click OK.

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Run the WE310F5 Module

- 1. Disconnect and reconnect the micro-USB cable from UART1 to the UARTO 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.

3WiFi 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"

👢 COM13:115200baud - Tera Term VT	_		×
File Edit Setup Control Window Help			
Serial2Wireless APP AT+WNI=0 +WNI:1			^
OK AT+WNCN=1,"test","demo@123" +WNCN:CONNECTED,192.168.112.200,255.255.255.0,192. OK	168.	112.	193

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=0,1,192.168.230.3,255.255.255.0,192.1 68.230.1
- 3. To set the DHCP server IP AT+WNAPIPC=0,192.168.230.2,192.168.230.10,8640 0000
- 4. To create a Network AT+WNCR=0, "TELIT", 6, "WPA2-PSK", "AES", "1234567890"

File Edit Setup Control Window Help		
		^
Serial2Wireless APP		
AT+WNI=1		
+WNI:0		
OK		
AT+WNIPC=0,1,192.168.230.3,255.255.255.0,192.168.23	0.1	
OK		
AT+WNAPIPC=0,192.168.230.2,192.168.230.10,86400000		
OK		
OK AT+WNCR=0,"TELIT",6,"WPA2-PSK","AES","1234567890"		
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



AT+BI=1 AT+BATTRIB="pserv", "uuid=12AA" 0x59" AT+BATTRIB="COMPLETE" AT+BADVE=1 AT+BOAD

🚨 COM13:115200baud - Tera Term VT <u>File Edit Setup Control Window Help</u>

Serial2Wireless APP AT+BI=1 OK

+BATTRIB:"CHARID:2"

OK AT+BATTRIB="COMPLETE" +BATTRIB:"SRVID:2"

OK AT+BADVE=1 OK AT+BOAD +BOAD: "00217E39F4FE"

5Resource Links

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



For technical support and general questions please e-mail: • TS-SRD@telit.com Alternatively, use: https://www.telit.com/contact-us/

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To initiate the Bluetooth® Low Energy interface via GATT Communication, use the following AT commands:

AT+BATTRIB="char", "prop=0x1A", "uuid=12A1" AT+BATTRIB="charval", "perm=0011", "len=1", "val=

```
X
AT+BATTRIB="pserv","uuid=12AA"
AT+BATTRIB="char", "prop=0x1A", "uuid=12A1"
AT+BATTRIB="charval", "perm=0011", "len=1", "val=0x59"
```

bContact Information, Support