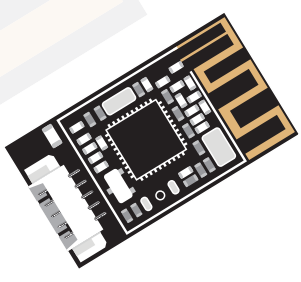
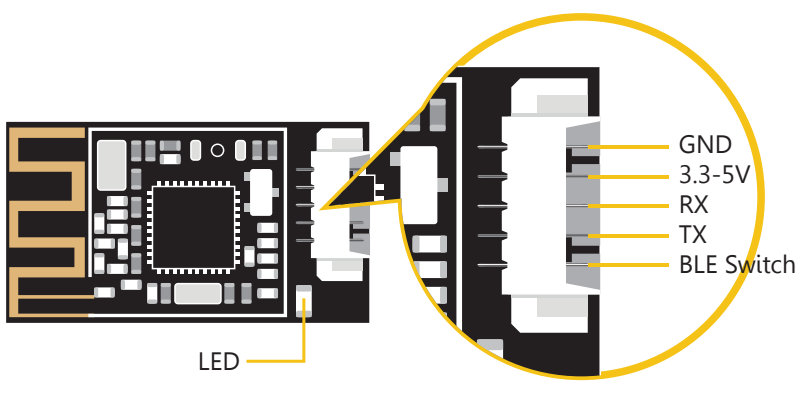


Bluetooth-UART Adapter

User Manual

Instruction Diagram

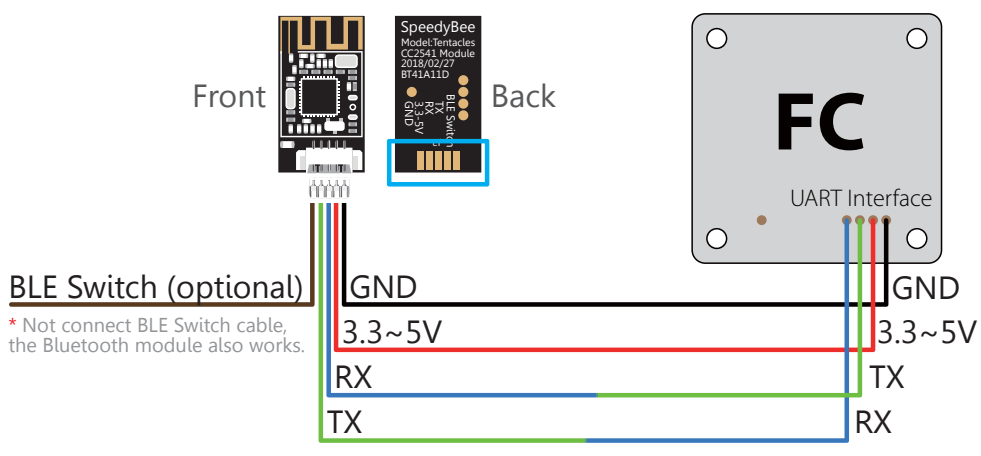


LED: Blue and constantly on when being connected.
LED does not light means it is not connected.

Flight controller set

Prepatation:
1.Firmware: Betaflight≥3.1.0
2.Configuration software: Betaflight Configurator
3.Any available UART interface on the Betaflight
4.SpeedyBee App: Android 4.3+ / iOS 10.0+

1 Connect the Bluetooth-UART Adapter with Flight Controller (or use the Solder PAD on the back of the Bluetooth PCB)



2 Make the Flight Controller recognize the Bluetooth-UART Adapter

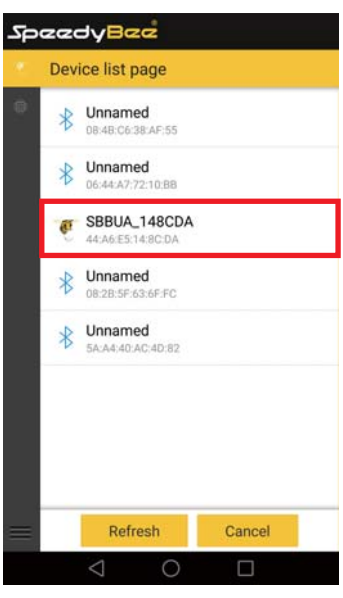
For example, we connect the Speedybee Bluetooth-UART Adapter to the UART6 interface on the Betaflight: connect the flight controller to the computer, then open the Betaflight Configurator.
In the Configuration/MSP column of the line UART6 (on the Ports tab), open the option Configuration/MSP, select the baud rate of 19200, and then click Save And Reboot.

Ports

Identifier	Configuration/MS	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART6	19200		Disabled AUTO	Disabled AUTO	Disabled AUTO

3 Connect Flight Controller and APP

Open the APP, APP will search the Bluetooth module automatic, select the Bluetooth with the icon and connect, and now, we can adjust the parameters via the APP.

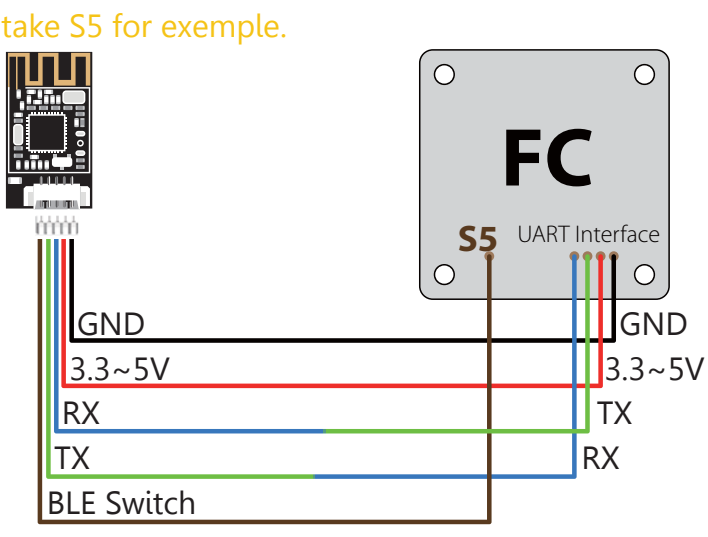


Assign Bluetooth to the switch of Throttle (Betaflight version≥3.3.0)

After assigning the Bluetooth to the switch of throttle, the Bluetooth module could deactivate and activate automatically according to the status of the drone(armed/disarmed)

1 Connect the BLE Switch to the PIN which can be used for Softserial on the FC (Such as S5, S6, LED Strip ect). On the FC, the pins which can be used for Softserial, please refere to following article: https://github.com/betaflight/betaflight/wiki/Single-Wire-Software-Serial

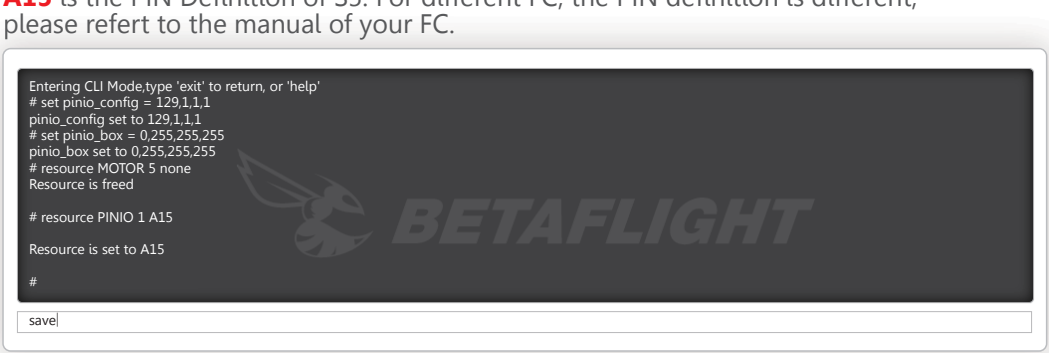
Here, we take S5 for exemple.



2 Open Betaflight Configurator, on the CLI tab, entre the flowing commands

```
set pinio_config = 129,1,1,1
set pinio_box = 0,255,255,255
resource MOTOR 5 none
resource PINIO 1 A15
```

Note: **MOTOR 5** is the name of the S5 PAD, please entre the name of the PAD which you have connected with the BLE switch.
A15 is the PIN Definition of S5. For different FC, the PIN definition is different, please refert to the manual of your FC.



3 Finished

Android and iOS APP

Search “SpeedyBee” on Google play and Apple Store.