

How to use RF module

By using Radiometrix BIM2/3 RF module, iMicro boards can transmit and receive data via radio frequency. In order to transmit and receive data, a RF module is needed to be plugged in at U7.

After the RF module is plugged in, you will need to call the function Set_RF_Mode() to switch it on. Then the LED RF(D10)will be light on to show that it is in RF mode. In order not to jam the system by transmitting random data, it is set to be in receiving mode(RX) by default. The LED TX(D11) is light up if it is in TX mode and the LED will be off if it is in RX mode.

The transmitting data format will as follows.

0x550x55	0xFF	0xFF	Header	Header	Data	Chk sum

Example to transmit data "Hello"

To transmit data "Hello", all you need to do is as follow:

char str[10];

Example to receive data "Hello"

char str[10]; unsigned char c;

Note: in receiving data, it is necessary to know the length of the receiving data.