WT5105-M1-DK
QUICK START

Version 1.1.0

Jun.17, 2020

Wireless-Tag Technology Co., Ltd.

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Revision History				
Version	Author	Reviewer	Date	Notes
1.0.0	Brussin		Mar.25, 2020	First release
1.1.0	LIYAN		Jun.17, 2020	Hardware version updating

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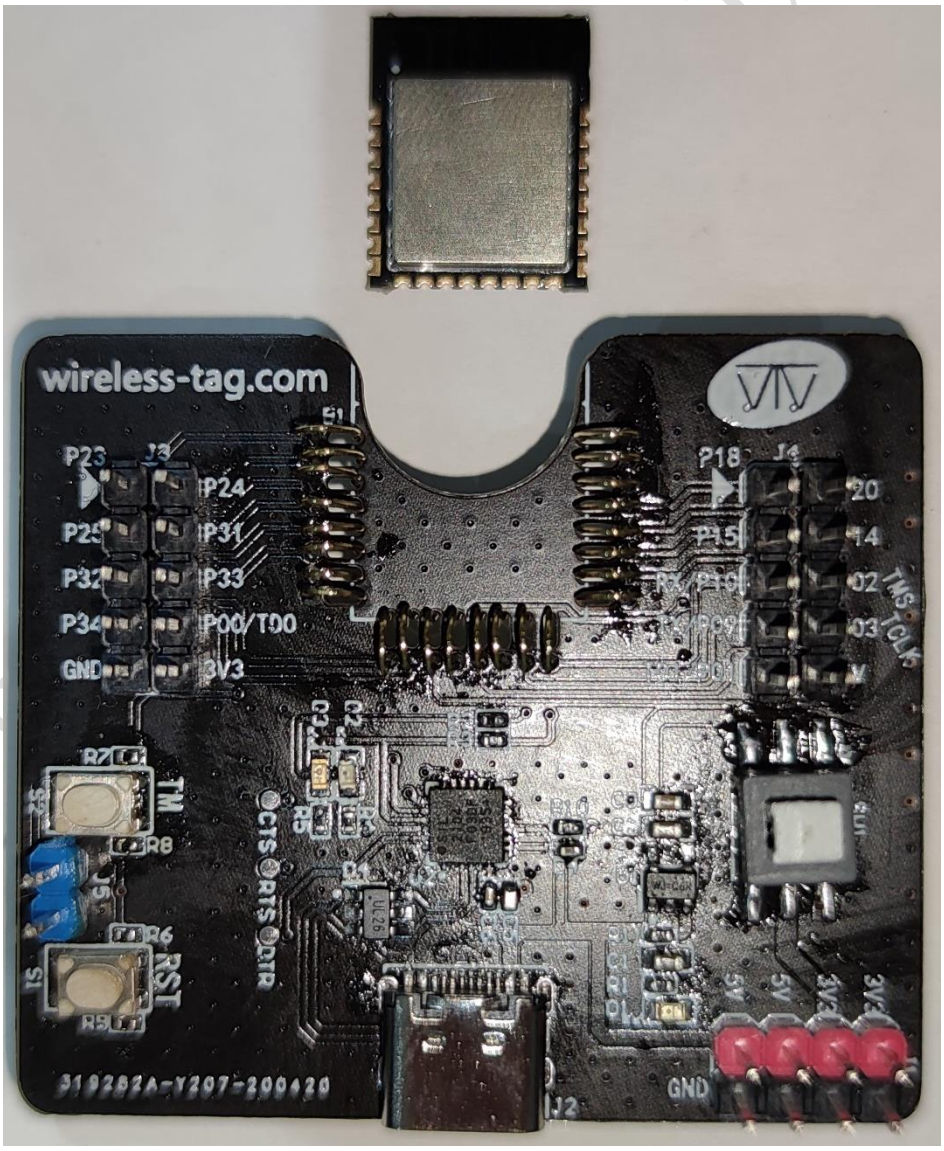
1. Environmental preparation

- Software environment
  Platform: Windows10
  SDK: WT51XX_SDK_2.1.0
  Compilation tool: keil5
  Burning tool: WT51-RFtools.exe
  （Download URL: http://doc.8ms.xyz/docs/wt5105/wt5105-1bv84c2qhb0pe）

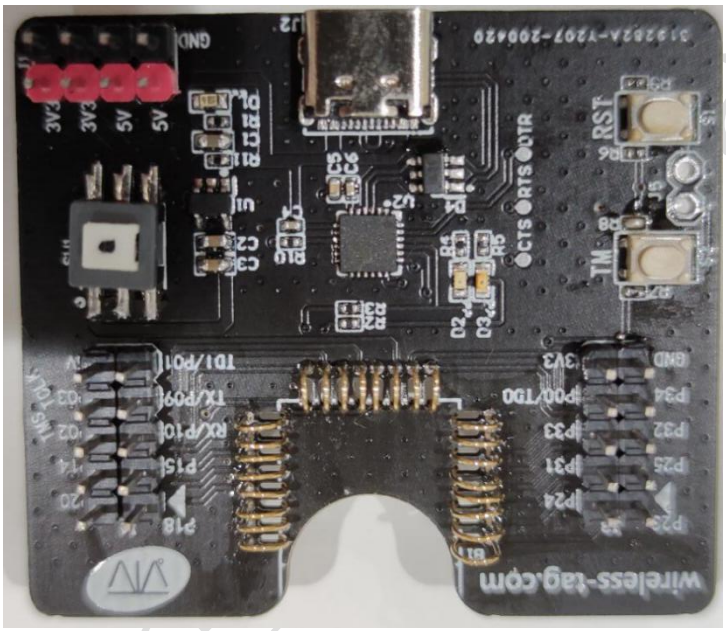
- Hardware environment
  WT5105-M1 module
  WT5105-M1-DK
  Type-c cable

  As shown below:

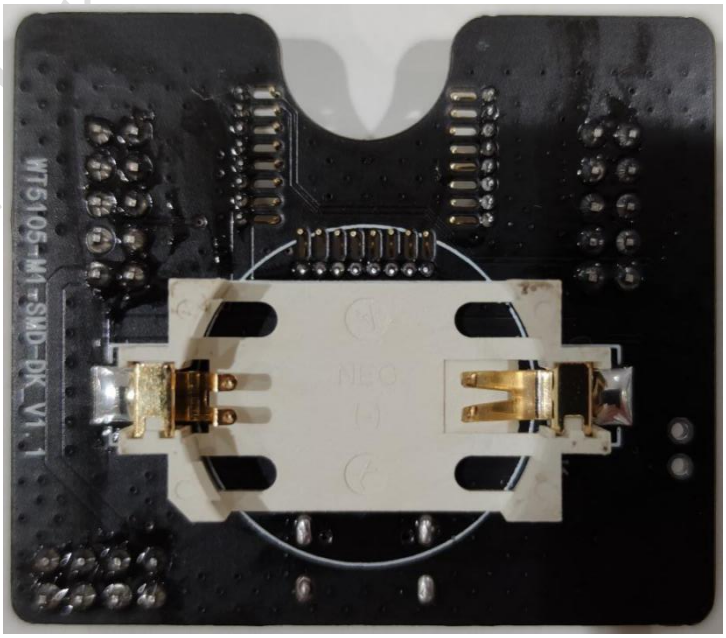


2. Hardware description

The front view and back view of wt5105-m1-dk are shown in the figures below. The self-locking switch SW1 is used to switch the power supply of the module: when SW1 is pressed, the module is powered by the USB interface; when SW1 is released, the module is powered by the button battery on the back of the development board. The touch buttons S1 and S2 are used to control the level status of the TM pin and RST pin of the module: RST is connected to GND when S1 is pressed (RST is high level by default); TM is connected to VCC when S2 is pressed (low level by default). The J5 pin header is connected to RST and TM respectively.



The front view of WT5105-M1-DK

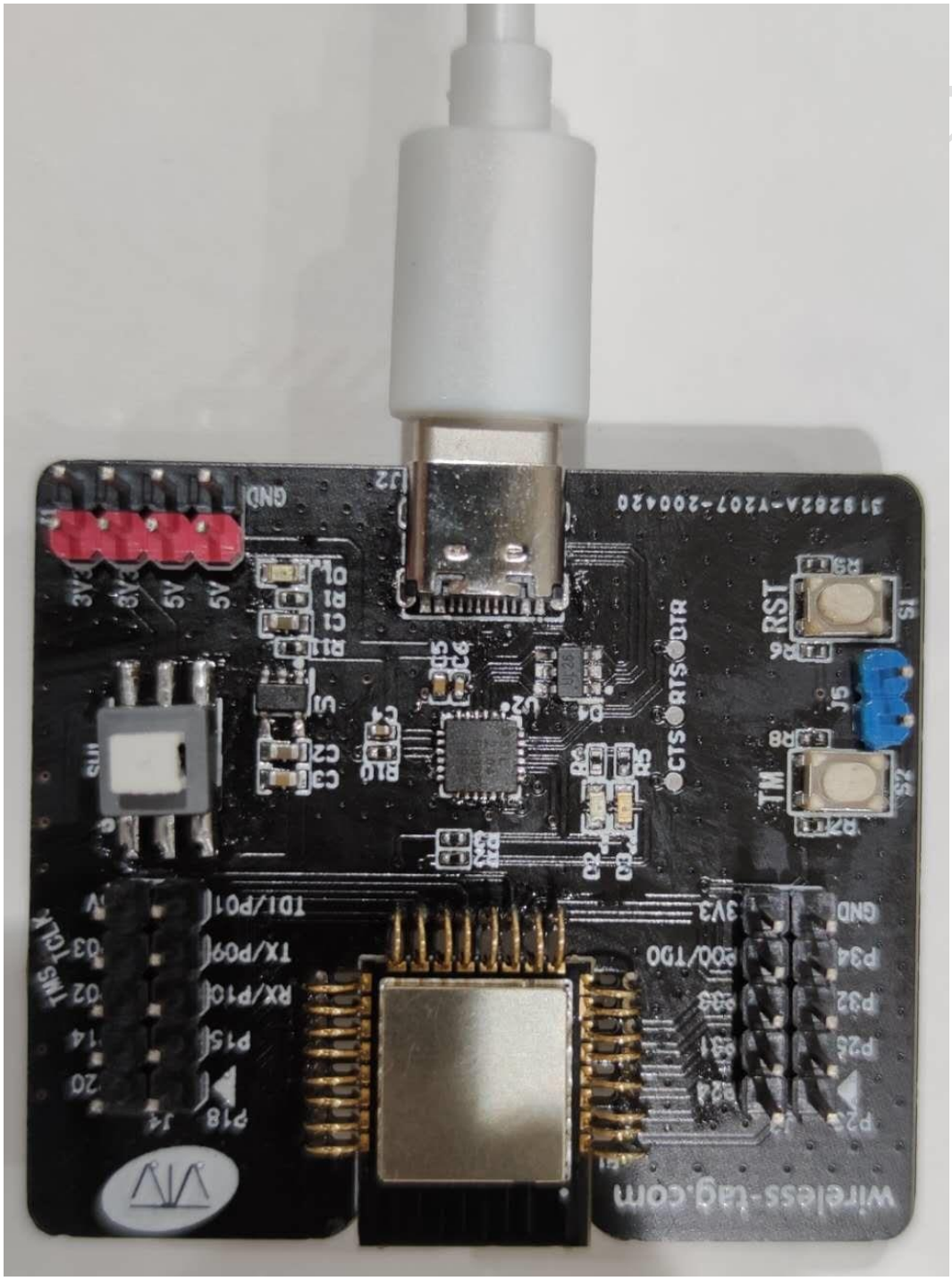


The back view of WT5105-M1-DK

3. Hardware connection

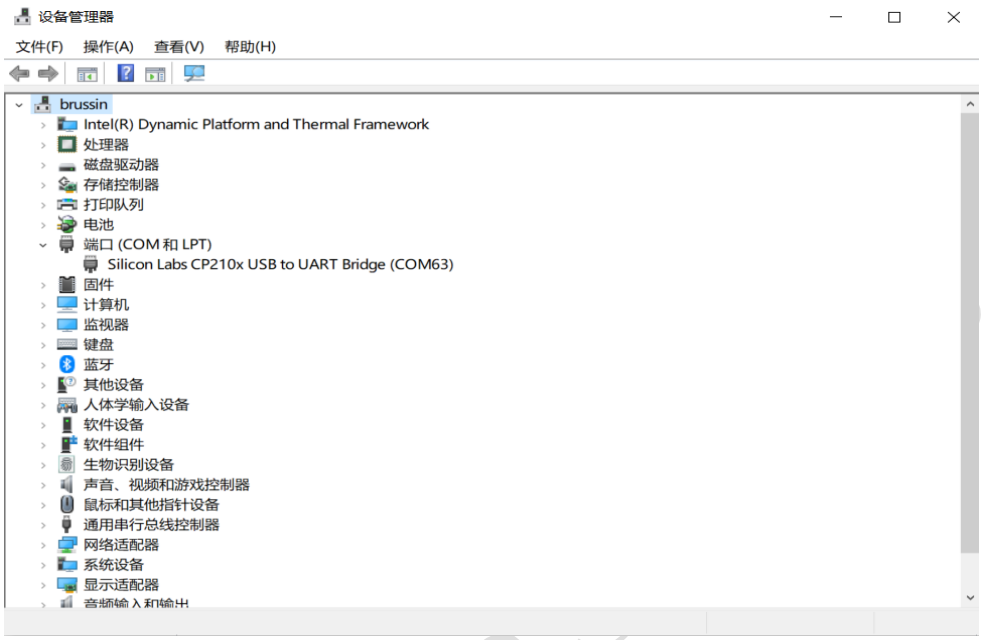
Connect the computer and the development board with the type-C data cable. If the red power indicator D1 is on, it indicates the power supply is normal. Then press the power switch SW1 to complete the power supply of the development board.

As shown below:



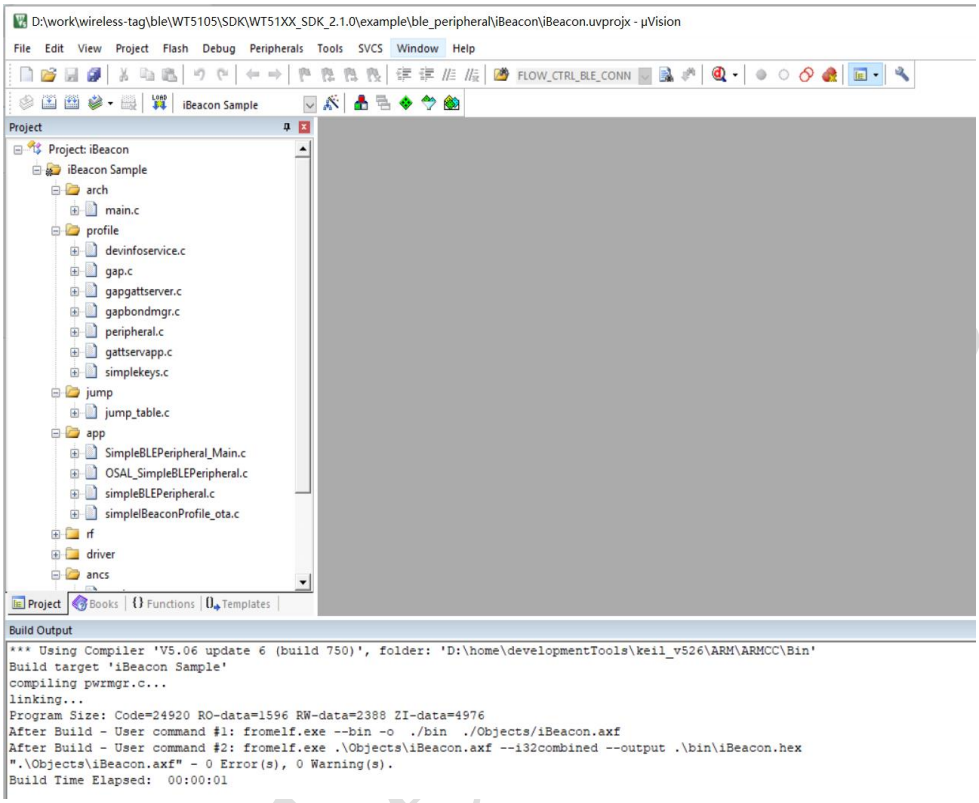
- Check the PC port. If a new port appears, it indicates the serial port connection is normal.

  As shown below:



4. Software Burning preparation

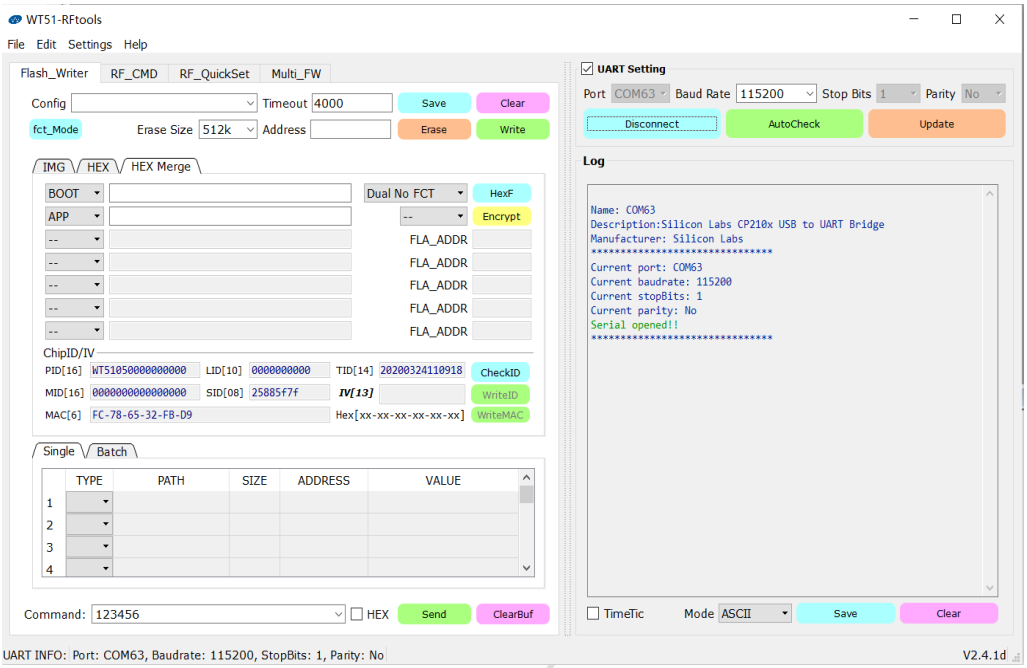
- Open the sample project in the SDK, select “build” and wait for the compilation to complete.



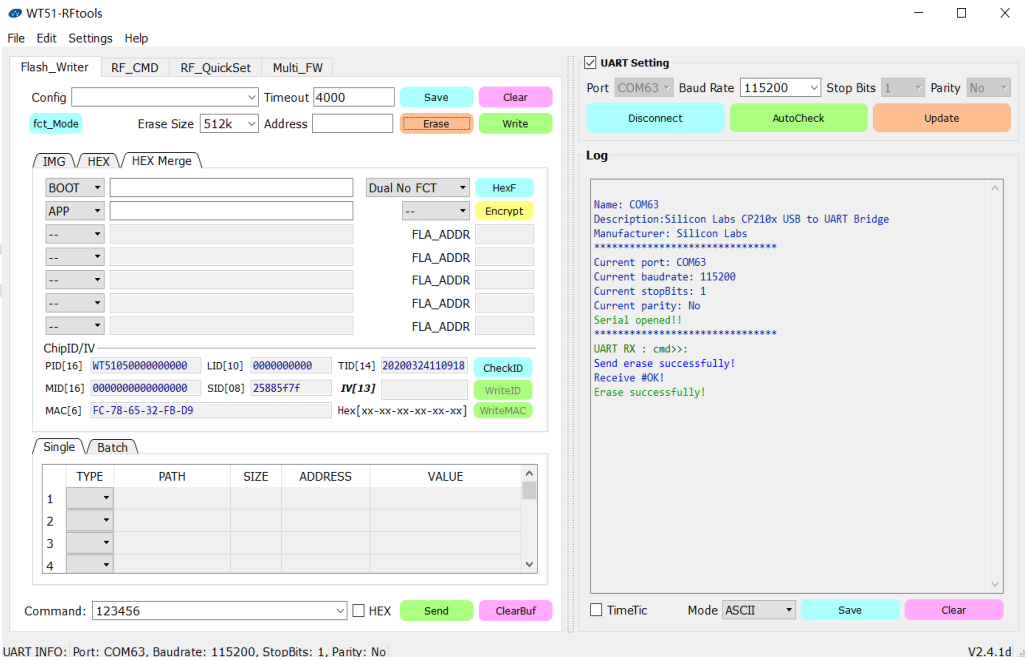
- The compiled hex file is saved in the bin directory of the current directory.

5. Burning

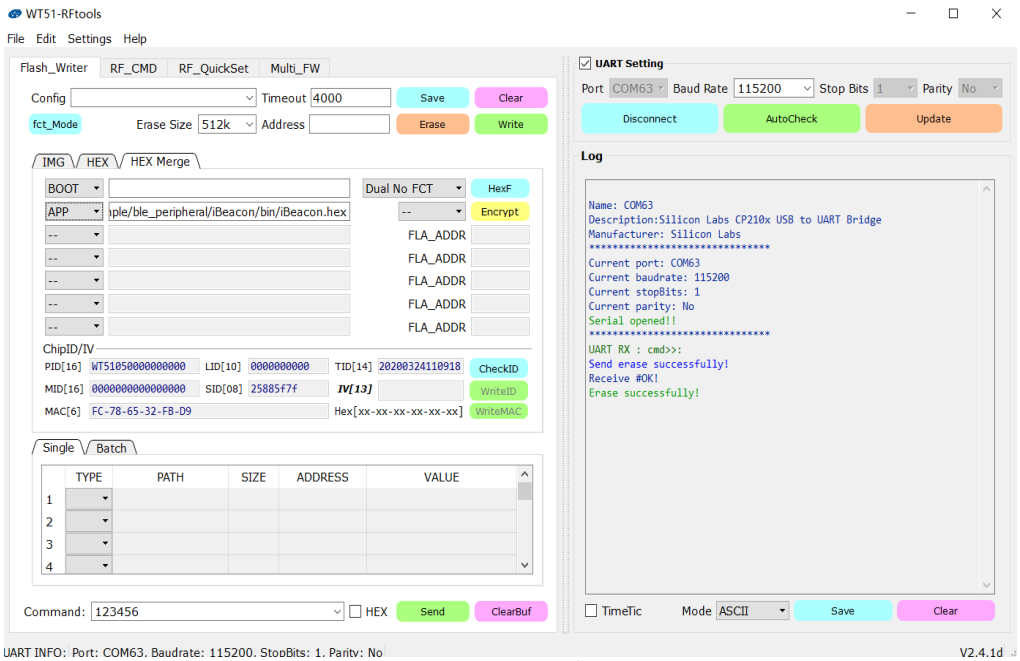
- Open the burning tool WT51- RFtools.exe. Check the “UART setting” option. Select the correct port and the appropriate baud rate, 115200 by default. Then select “connect” to connect to the DK.



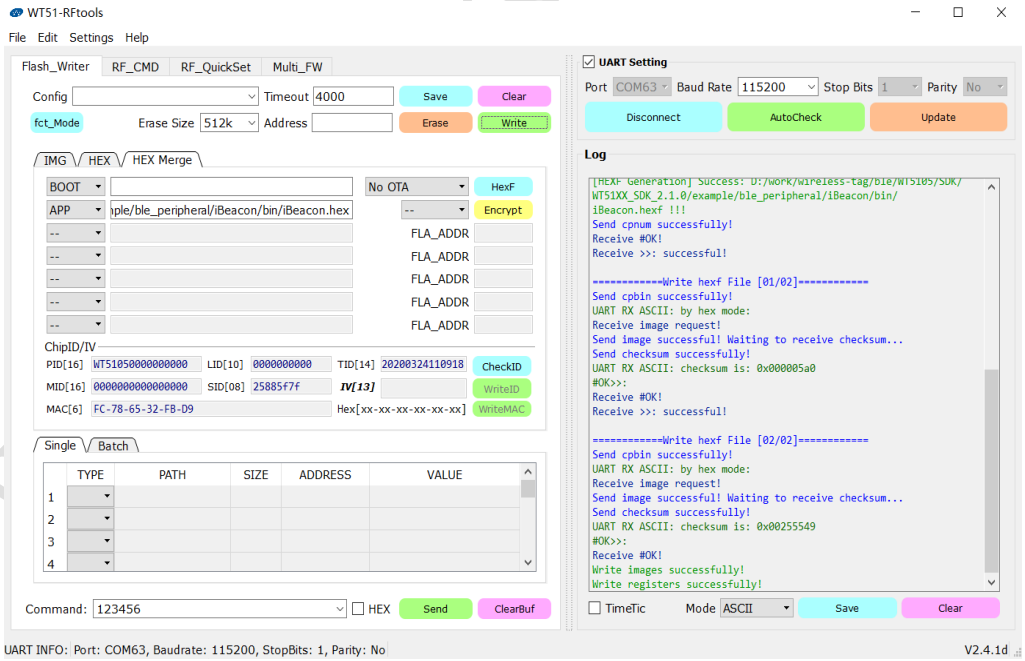
- After pressing the TM button on the DK and then pressing the RST button, the module will enter the burning mode. Before burning, erase the chip by “Erase”.



- After erasing, select “HEX Merge”, and double-click the blank space behind the APP to load the hex file to be burned.



- After loading, select “Write” and wait for the burning to complete.



- After the burning is completed, press the RST button on the DK again. The chip will enter the normal working mode.

6. DK Schematic diagram