

T2 Series Certification Test Description

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Shenzhen E-Link Internet of Things Co.

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edit a record

Document version	author	Release Date	Modification Instructions
V1.0	Zhu Zhilin (1938-), Taiwanese poet	2022/05/22	first edition

catalogs

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List of tools used

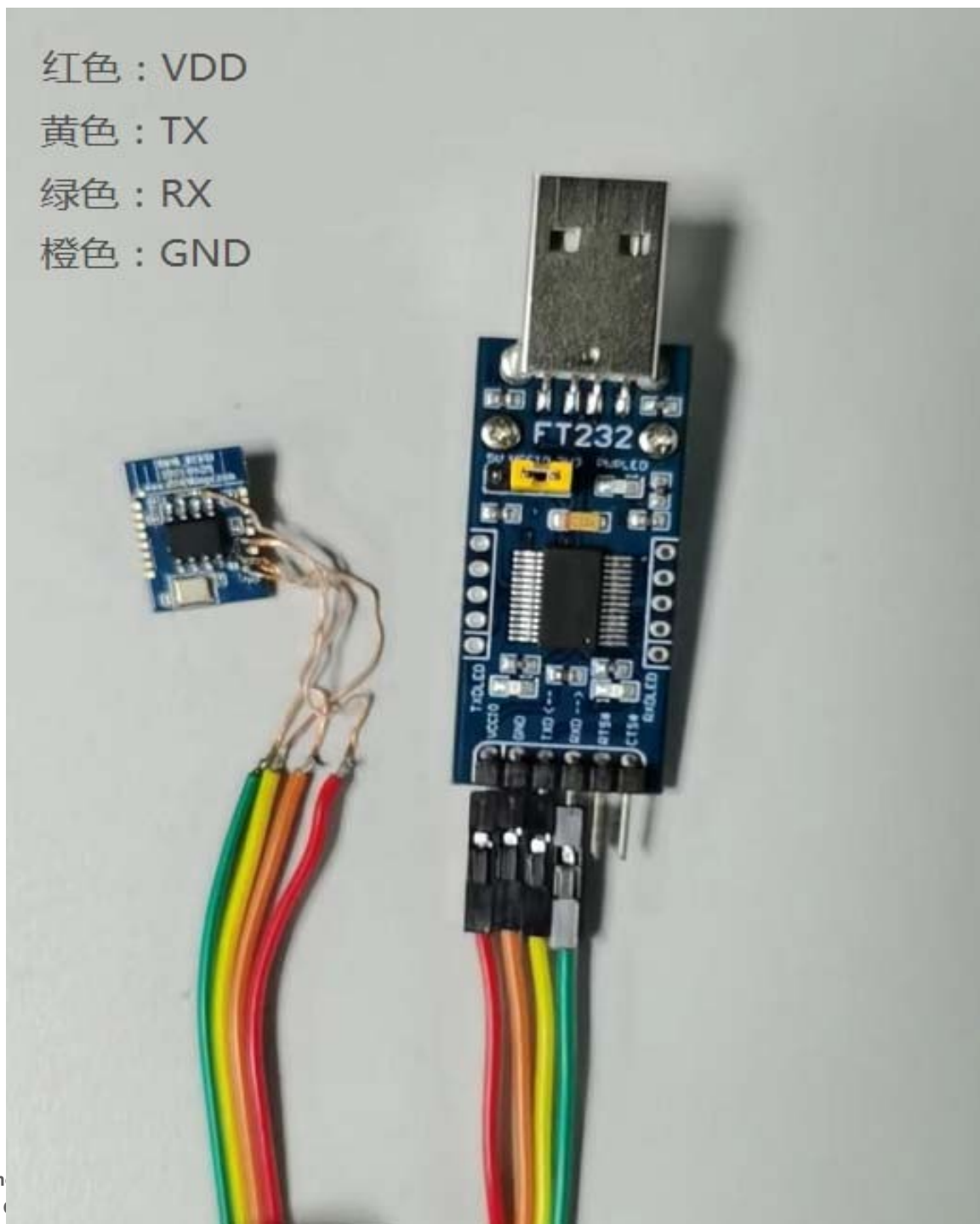
- 1) The FT232 serial tool is recommended for connecting the USBDM/USBDP to the serial tool TX/RX;
- 2) The company has 4 DuPont lines;
- 3) , certified test instruments;
- 4) One branded computer (USB port output power ripple meets certification requirements);

caveat

- 1) The program does not have an automatic shutdown function. It stays on when it is powered on, so disconnect the battery after testing. Power up the program again during the test to prevent the battery from running out of power.
- 2) The FCC test requires two prototypes, one is to test the Bluetooth protocol, which needs to communicate with the computer software. The use of this information program. The other is a normal function of the machine, test radiation;
- 3) The serial port baud rate is 115200;
- 4) , certified test instruments;
- 5) One branded computer (USB port output power ripple meets certification requirements);

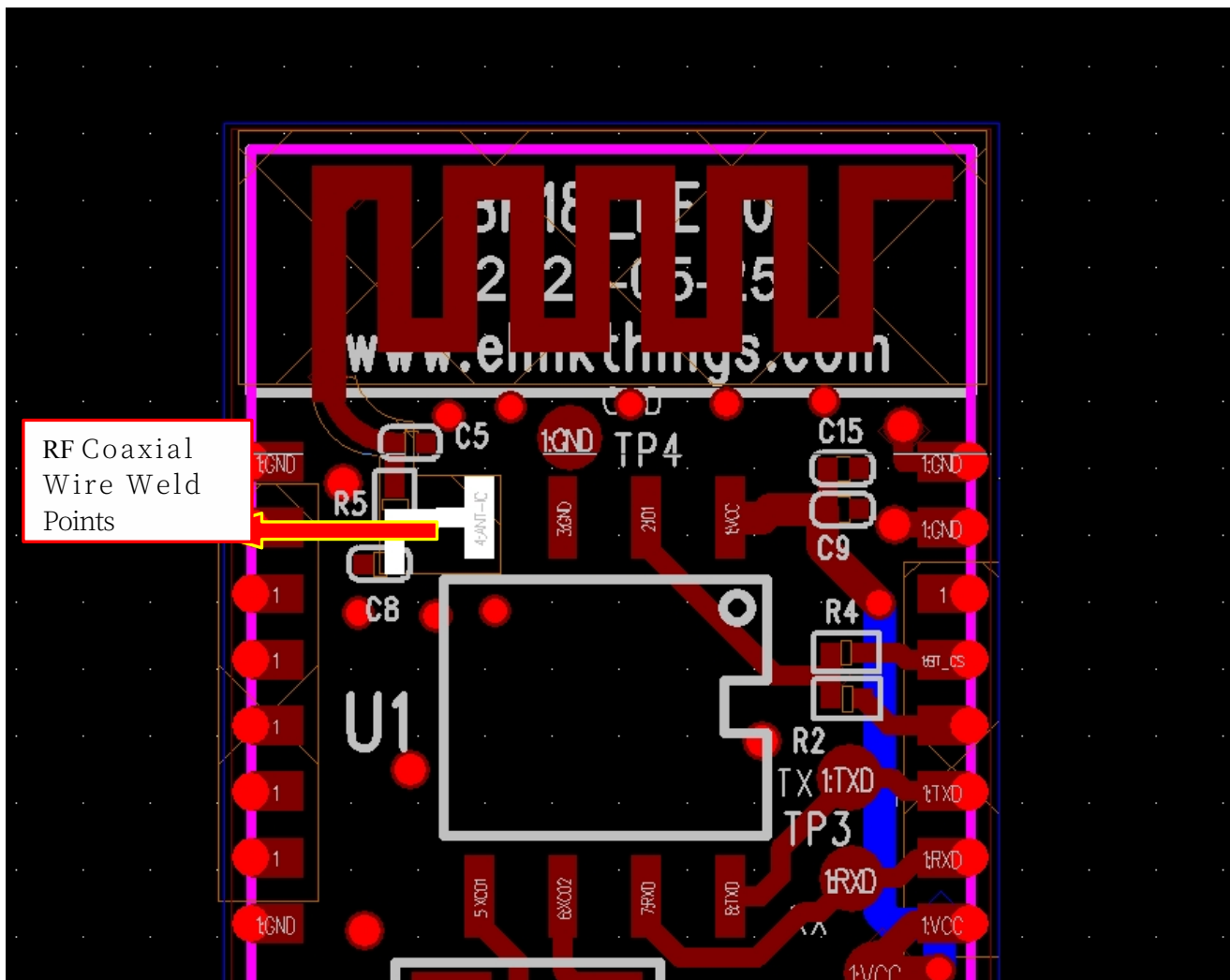
1 Wiring Instructions

1.1 line graph



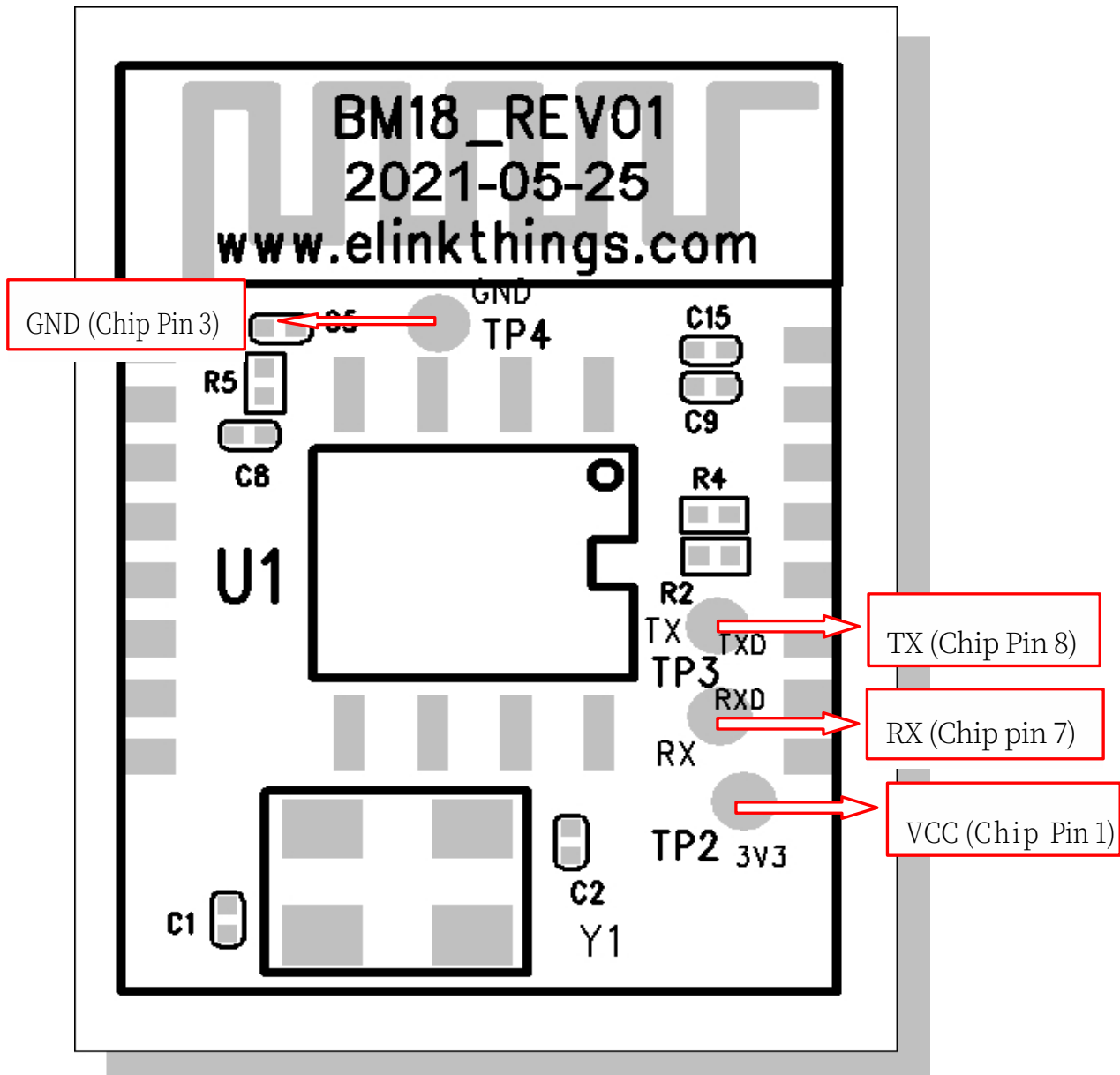
(BM18 wiring diagram)

1.2 Soldering of RF coaxial wires: Remove R5 (0 ohm) and solder the feedpoints in the locations shown in the figure, refer to the PCB drawing below.



1.3 BM18 Test Point Electrical Definition

As shown in the picture: you need to lead the module VDD, GND, RX, TX four lines to the UART (FT232), and strictly in accordance with the order of the wiring in the picture to connect;



(BM18 pin electrical schematic)

2 beta (software)

2.1 Pathfile

Test Instruction Document: T2 Series Certification Test Instruction_20220522.doc

Test tool software: FCC_assist_1.0.2.2.exe (no need to install, direct execution)

2.2 Test Procedure

2.2.1 Connect the device to be tested to the USB to Serial tool.

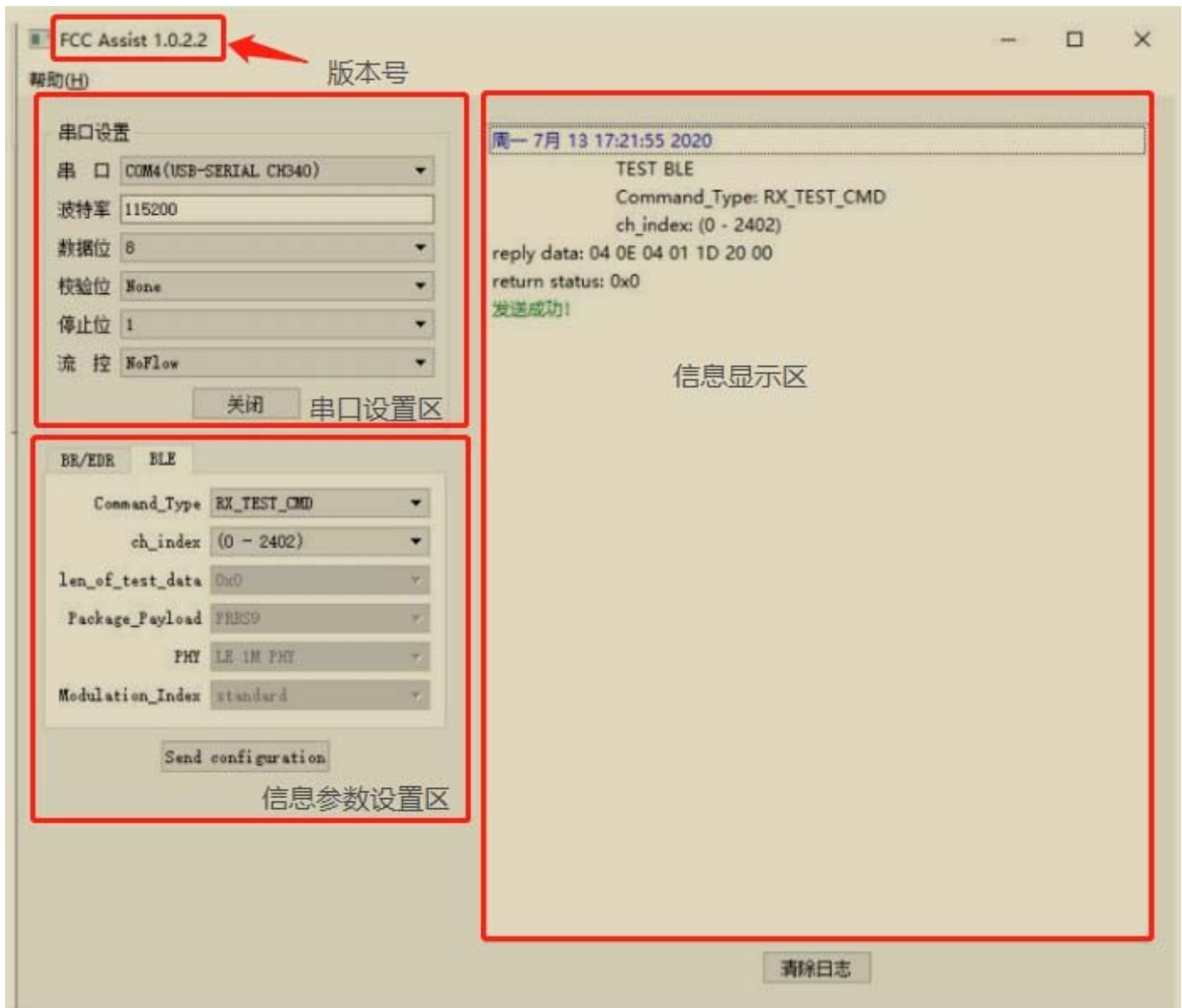
VDD of the device to be tested is connected to 3V~3.3V, GND is connected to GND, TX is connected to RX of the serial tool, and RX is connected to TX of the serial tool.

2.2.2 Open the PC's Device Manager and check the serial port number (serial port numbers vary from computer to computer)



2.2.3 Open the file: FCC_assist_1.0.2.2.exe, select the corresponding serial port number, and then set OK according to the following figure; you can choose different frequency points for testing according to the certification requirements.

Successful examples of BLE communication:



The causes of authentication failure are troubleshoot as follows:

1. Check that the tool software setup parameters are correct
2. Check that the module is wired in the correct way (try swapping serial ports TX/RX)
3. Is the module using the wrong mass production module
4. Verify that the module is not damaged

3 Contact Us

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