

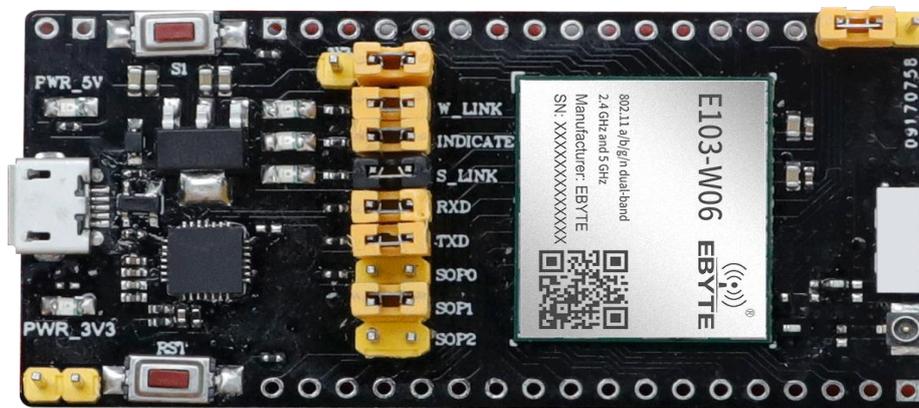


Chengdu Ebyte Electronic Technology Co.,Ltd.

## E103-W06-TB User Manual V1.1

### 1. Introduction

#### 1.1 Features



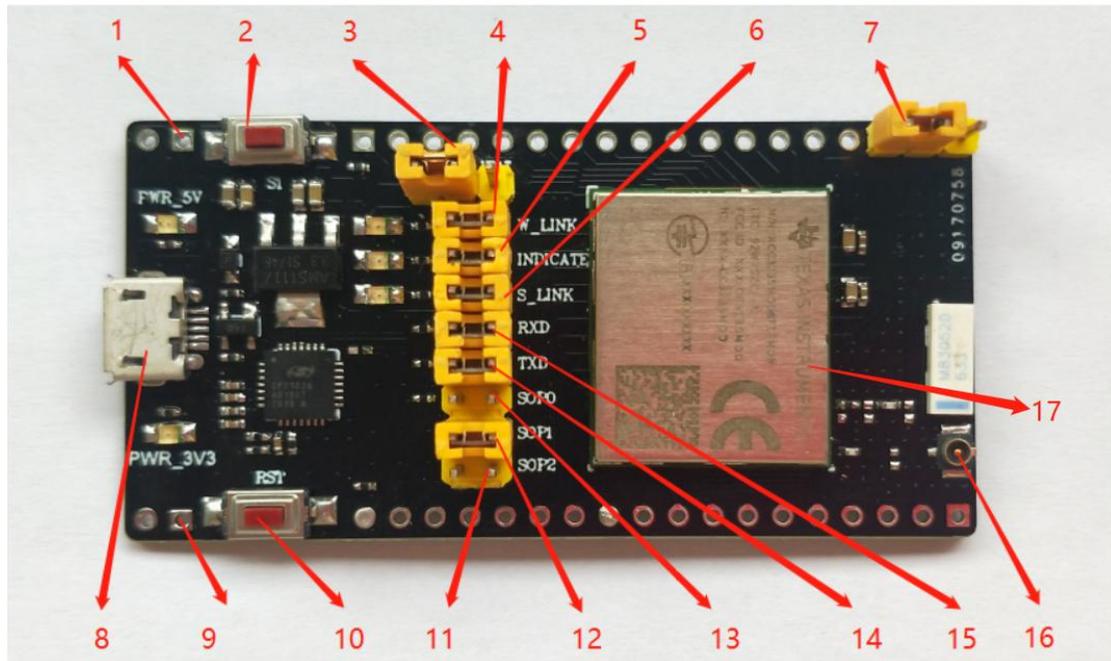
The E103-W06-TB test board uses a USB interface, which can be used to quickly test the features and functions of the E103-W06 module.

#### 1.3 Electric Parameter

| Num | Parameter Name          | Parameter Value                  | Remark                                   |
|-----|-------------------------|----------------------------------|--|
| 1   | Support module          | E103-W06                         | WiFi Serial Module                       |
| 2   | Module size             | 62 * 31 mm                       | With USB Interface                       |
| 3   | Production Process      | Lead-free process, machine paste | Ensure batch consistency and reliability |
| 4   | Power supply interface  | USB                              | -  |
| 5   | Communication Interface | TTL                              | -  |
| 6   | Operating temperature   | -40 ~ +85°C                      | Industrial grade                         |
| 7   | Working humidity        | 10% ~ 90%                        | Relative humidity, non-condensing        |
| 8   | Storage temperature     | -40 ~ +125°C                     | Industrial grade                         |

## 2. Function

### 2.1 Pin Definition



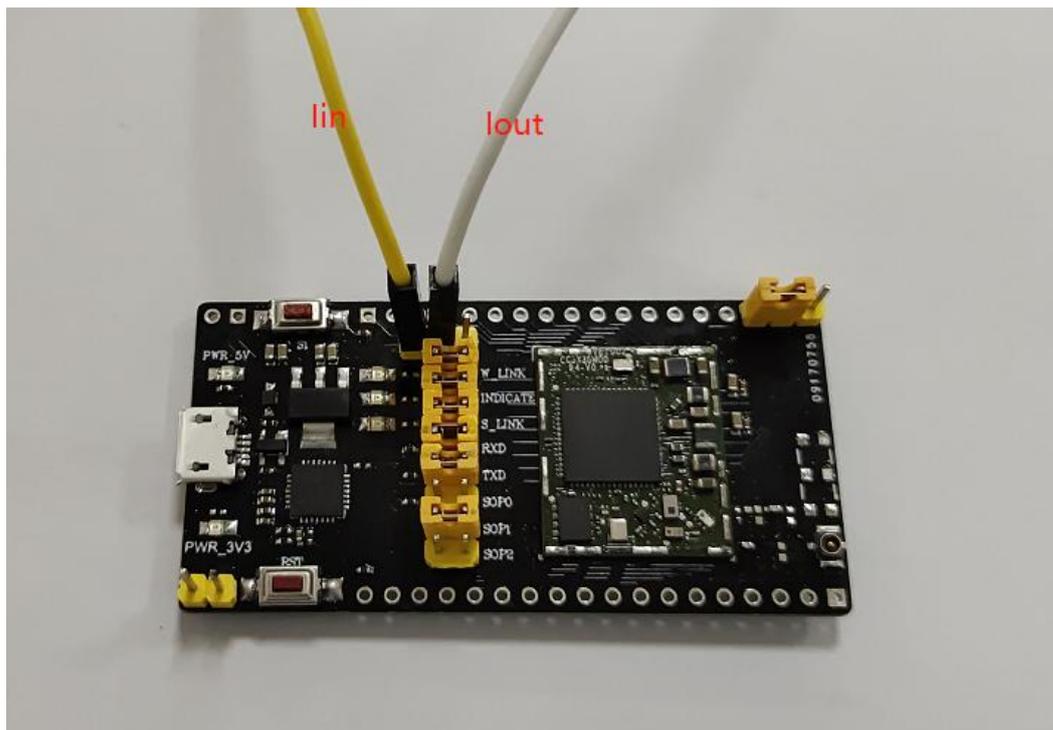
| Pin NO. | Name          | Pin direction | Application   |
|---------|---------------|---------------|---|
| 1       | +5V           | -             | +5V external power supply (not powered by USB)  |
| 2       | S1            | -             | NC  |
| 3       | 3.3V          | -             | For module power supply selection, connect the power supply jumper cap to the left end (ie 3.3V shorted to 3V3) through the power chip; connect the jumper cap for direct battery power supply to the right end (ie 3.3V shorted to VBAT) |
| 4       | W_LINK        | TX            | WiFi connection indication, connection: output high, LED off. Disconnected: the output is low and the LED is on.  |
| 5       | INDICATE      | TX            | Module abnormal connection indication, abnormal: output is high, LED is off. Normal: The output is low and the LED is on.   |
| 6       | S_LINK        | TX            | Socket connection indication, connection: output high, LED off. Disconnected: the output is low and the LED is on.  |
| 7       | VBAT_RESET    | -             | Reset enable, connect the jumper cap: reset is pulled up to 3.3V through a 100K resistor.   |
| 8       | USB Interface | -             | Serial input, output and power supply   |

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|    |          |       |  |
|----|----------|-------|--|
| 9  | VBAT     | -     | Battery-powered input port, power supply 2.3V~3.6V                               |
| 10 | RST      | RX    | Module reset button  |
| 11 | SOP2     | RX    | Program loading mode selection   |
| 12 | SOP1     | RX    | Program loading mode selection   |
| 13 | SOP0     | RX    | Program loading mode selection   |
| 14 | TX       | TX    | Module TX transmission   |
| 15 | RX       | RX    | Module RX receiving  |
| 16 | IPX      | RX/TX | External radio frequency interface (external antenna requires jumper resistance) |
| 17 | E103-W06 | -     | E103-W06 module  |

**Note:** Please refer to the user manual of E103-W06 for specific function instructions.

## 2.2 Function Test



| Function                                | Description   |
|---|---|
| Test receiving and transmitting current | Connect the ammeter to pin 3, as shown in Figure 3, the current test interface diagram, the current enters from Iin and exits from Iout.<br>xian If you want to test the sleep current, connect the meter and send the command: |

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|                               |   |
|-------------------------------|---|
|                               | AT+SLEEPIN  |
| Data transmission test        | Basic data transmission refer to Chapter 7 Section 1 of E103-W06_datasheet_EN<br>Network communication refer to E103-W06_datasheet_CN Section 7 Section 2 |
| Module parameter modification | Need to modify the module parameters, please refer to the seventh section of E103-W06_datasheet_CN  |

## 2.3 CCH9102D Driver Installation

If it is the first time to use the CH9102D interface conversion module, the PC will prompt to install the new device driver, which can be searched and downloaded online, or the driver wizard can download the driver.

### 3. Customized cooperation

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