EWT151-2G4T10S User Manual

Wireless Synchronous Module Test Kit



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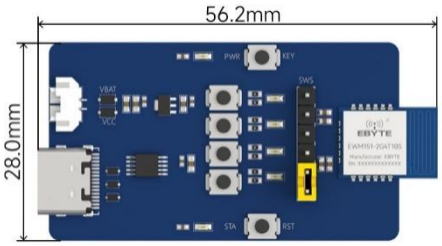
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1 Overview

1.1 Product Introduction

The EWT151-2G4T10S is a test kit based on the module EWM151-2G4T10S, which significantly reduces user's development cycle. For detailed information about the EWM151-2G4T10S , please visit the official website to download relevant documentation.

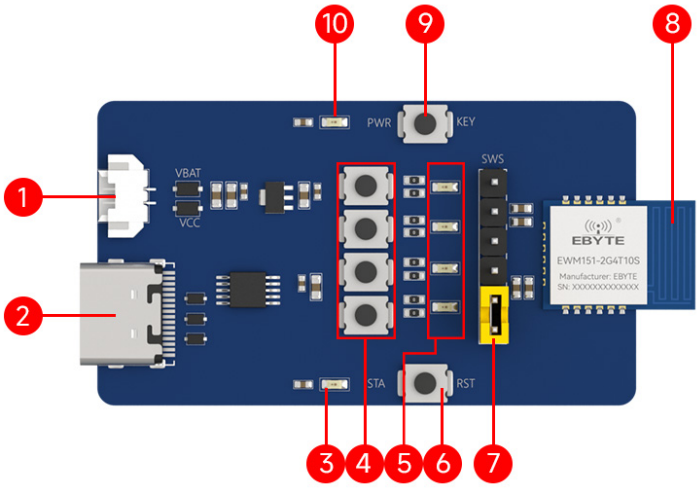


- EWM151-2G4T10S has been pre-welded;
- They need to be used in pairs;
- Provides pairing and reset buttons;
- Provides 4 DI input buttons + 4 DO output indicator lights;
- Synchronous transmission, intuitive indication;
- Provides a Type-C interface for easy testing.

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2 Hardware Description



Serial Number	Name	Details
1	Power input	3.3V battery input interface
2	Type-C input interface	DC 5V power supply and serial port
3	Status indicator light	Off: Not paired/Working Flashing: Pairing in progress Always On: Configuration Mode
4	Input keys	4-channel DI input
5	Output indicator light	4-channel DO output
6	Reset button	Tap to reset
7	Wake-up pin	Shorting the two bottom pins shown in the diagram wakes the module. Disconnecting them puts it into sleep mode.
8	EWM151-2G4T10S module	Pre-welded modules
9	Pairing button	Press and hold for 2-10 seconds to enter pairing mode; Press and hold for more than 10 seconds to clear pairing information.
10	Power indicator light	Lights up when powered on

3 Quick Use

3.1 Hardware Connection

Items to prepare: two EWT151-2G4T10S test kits, two Type-C data cables.

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Power supply for the kit module: battery powered or Type-C powered; the power indicator PWR will remain lit after the kit module is powered on.

All output indicator lights remain on after power-on. After pairing, the output indicator lights can be turned off using the buttons.

3.2 Button Pairing

1. After powering on both modules, press and hold the KEY button for two seconds to enter pairing mode. When the kit module is in pairing mode, the STA status light will flash once per second. When pairing is successful, the STA status light will stay on for 5 seconds and then turn off. Synchronous transmission control can then be performed.

2. Paired kit modules can trigger the corresponding output interface of another kit through the input interface of either kit, supporting simultaneous transmission control.

3.3 Automatic Serial Port Pairing

1. After powering on both modules, open the serial port assistant, select and open the correct COM port, select 9600 baud rate, and check "Send new line" (AT commands require adding a carriage return for line feed).

2. The serial port assistant sends "AT+MODE=2" to the kit module to put the module into pairing mode. When the kit module is in pairing mode, the STA status light flashes once per second. When pairing is successful, the STA status light remains constant for 5 seconds and then turns off.

3. Paired kit modules can trigger the corresponding output interface of another kit through the input interface of either kit, supporting simultaneous transmission control.

3.4 Manual Pairing

1. After powering on both modules, open the serial port assistant, select and open the correct COM port, select 9600 baud rate, and check "Send new line" (AT commands require adding a carriage return for line feed).

2. Send "AT+MODE=0" to put the module into configuration mode;

3. Use "AT+UID=?" to query the module's local address and record it.

4. Send “AT+PAIR=<target pairing module UID address>” respectively;

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5. Send “AT+MODE=1” to each module. The module will wait for pairing to complete and enter working mode. The other module needs to complete the same configuration within 30 seconds, otherwise pairing will fail.

Revision History

Version	Revision Date	Revision Notes	Maintainer
1.0	2025-11-04	Initial version	Lei

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