EWT104-BT61SP Product Specification Sheet

Bluetooth audio broadcast transceiver module test kit



Chengdu Ebyte Electronic Technology Co.,Ltd.

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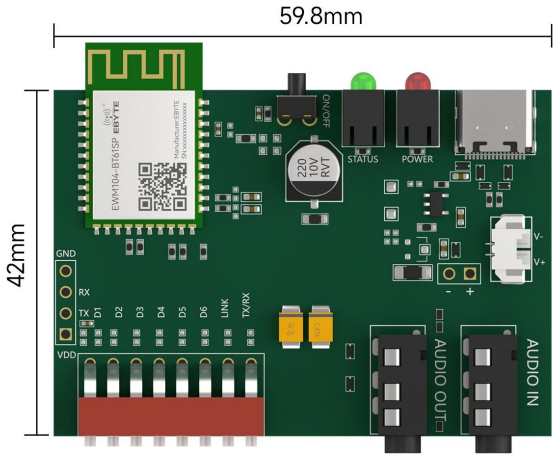
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1 Overview

1.1 Product Introduction

The E WT104-BT61SP is a Bluetooth test kit based on the E WM104-BT61SP module , which can significantly reduce the user's development cycle. For detailed information on the E WM 104- BT61SP , please visit the official website to download relevant documentation for this model .



1.2 Product Features

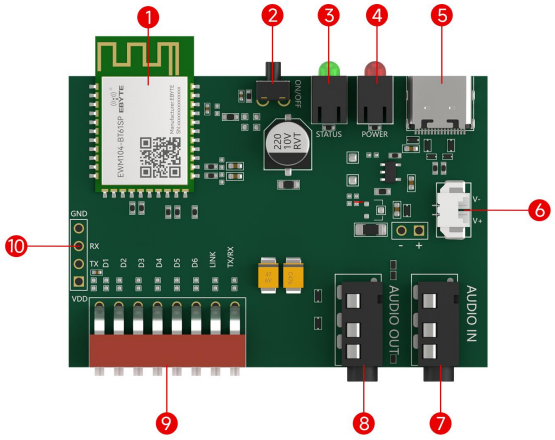
- Supports Bluetooth 5.4 ;
- Supports Bluetooth audio reception.
- Supports one-to-many audio transmission and playback;
- Supports wireless Bluetooth, 3.5mm AUX interface, and USB sound card audio input;
- Supports 3.5mm AUX interface and wireless Bluetooth broadcast output;
- Supports 64 channels;
- EWM104-BT61SP has been pre-welded;
- The maximum transmit power is 8 dBm;

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2 Hardware Description

1 Interface Description



Serial Number	label	name	illustrate
1	EWM104-BT 61SP	Module	Pre-welded modules
2	ON/OFF	switch	Power button
3	STATUS	Status indicator lights	When powered on, if in the transmitting state, the indicator light will cycle through a pattern of flashing twice after being off for 3 seconds. If the device is in receive mode and no transmitter is matched, the indicator light will flash continuously. If it is connected to the transmitter, the indicator light will flash in the same way as the transmitter's indicator light.
4	POWER	Power indicator light	When no batteries are connected, plugging in a USB-C power source will light up the circuit. When the battery is plugged in, the red light illuminates while charging and turns off when fully charged.
5	USB-C	Power input	USB Type-C interface, 5V/1A input
6	V+/V-	Battery interface	Lithium battery compatible
7	AUDIO_IN	Audio input	3.5mm AUX input, compatible with computers, mobile phones, music players, and other devices.
8	AUDIO_OUT	Audio output	3.5mm AUX output, can be used to connect headphones or output to devices with speakers.

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9	D1~D6	DIP switch	Dial up for 1 and dial down for 0, resulting in 64 possible combinations. Communication is only possible when the settings on both the sending and receiving sides are consistent.
	LINK		a Bluetooth device such as a mobile phone or computer for the first time , please follow the steps below to confirm. ①Please set LINK to 0 first; the Bluetooth name "soundbox" that appears in the search results on your phone ; ③ After the pop-up window appears on your phone, switch LINK to 1; ④ Finally, click "Pair" in the pop-up window on your phone to complete the pairing process;
	TX/RX		Swipe up for transmit mode, swipe down for receive mode.
10	-	Debug serial port	Connect to serial port for debugging

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3 Quick Use

3.1 Bluetooth audio local reception and playback

the module's MODE pin to set it to transmit mode. After powering on, you can use your phone to scan for Bluetooth, search for the soundbox broadcast, and connect (confirmation is required via the falling edge signal of the SW pin) . After that, you can directly play audio.

3.2 Audio broadcast retransmission

the module's MODE pin sets it to transmit mode. Broadcasting is enabled by default, and audio signals can be input via Bluetooth wireless input, USB differential signal input, or IN_L/IN_R analog signal input .

3.3 Audio Broadcast Reception

Keep the MODE pin floating/high to set it to receive mode. Once powered on , audio signals can be output through the OUT_L/OUT_R pins .

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Revision History

Version	Revision Date	Revision Notes	maintainer
1.0	2026-01-27	Initial version	Lei

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