EWT104-BT60 Product Specification

Low-cost Bluetooth Audio + Serial Data Transmission Module Test Kit



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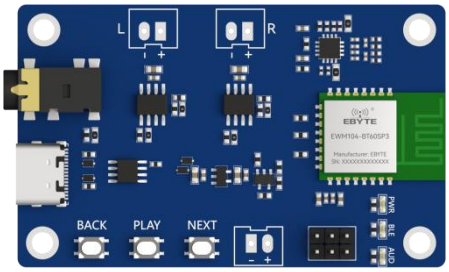
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1 Introduction

1.1 Brief Introduction

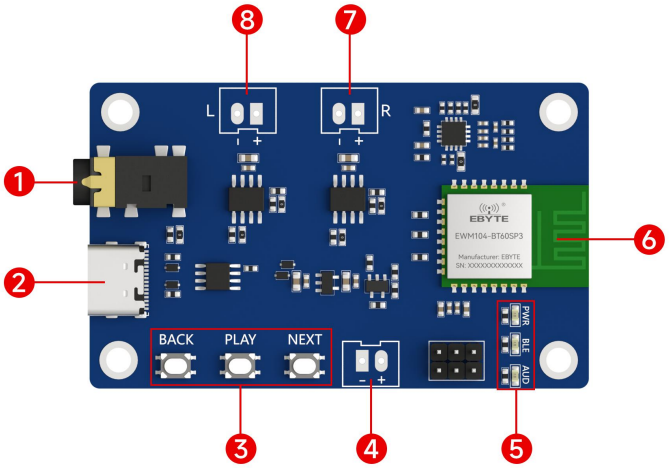
The EWT104-BT60 is a Bluetooth test kit based on the EWM104-BT60SP3 module, designed to significantly reduce the user's development cycle. For detailed specifications of the EWM104-BT60SP3, please visit the official website to download the relevant documentation for this model.



1.2 Features

- Pre-soldered EWM104-BT60SP3 module;
- Provides 3.5mm audio output jack;
- Enables direct headphone testing;
- Supports Bluetooth audio + data transmission;
- On-board amplifier chip delivers 4 Ω /3W output power.
- Provides volume up/down, track forward/backward, play/pause/mute buttons.

2 Hardware Description



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Serial number	Description		Note
1	3.5mm audio output jack		Headphones can be connected
2	Type-C power input		DC 5V input
3	BACK	Previous track/Volume down	Press once to decrease volume; double-tap to skip back to the previous track.
	PLAY	Pause/Play/Disconnect Bluetooth	Press briefly to pause or play; press and hold to disconnect Bluetooth.
	NEXT	Next track/Volume up	Press the volume up button briefly to skip to the next track.
4	power supply input		3.3V power supply input
5	PWR	Power indicator light	Steady on after power-up
	BLE	BLE connection indicator light	BLE connection indicator remains lit
	AUD	Audio connection indicator light	Audio connection indicator remains lit
6	Pre-welded Module EWM104-BT60SP3		For module functionality, please refer to the manual.
7	Right channel output		Compatible with speakers rated up to 4Ω/3W
8	Left-channel output		Can be connected to speakers rated up to 4Ω/3W

3 Quick Start Guide

3.1 Audio usage

Upon powering up the module, one may scan for Bluetooth devices via mobile phone, locate the E104-BT60_BR/EDR broadcast, and establish a connection. Audio playback may then commence directly.

3.2 SPP usage

Upon power-up, the module can be scanned and connected to via the E104-BT60_BR/EDR broadcast using a mobile SPP debugging application. Subsequently, inputting ‘+++’ will place the module into configuration mode. Within this mode, execute the command AT+TRANSMODE=2 to set the transmission mode to SPP. Finally, issue AT+EXIT to exit configuration mode, after which data will be transmitted transparently.

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3.3 BLE usage

Upon powering up, the module can be scanned and connected to the E104-BT60_BLE broadcast using a mobile BLE debugging application. Once connected, open the FFF1 notification channel to enable transparent data transmission from the module to the mobile device. Data may be transmitted from the mobile device to the module via the FFF2 channel, ultimately outputting via the serial port.

Revision history

Version	Date	Description	Issued by
1.0	2025/9/12	Initial version	Lei
2.0	2026/7/31	PCB redesign	Lei

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