



E104-BT30-TB User Manual

CSRA64215 Wireless Audio Module+ Adaptor Board+Test Board



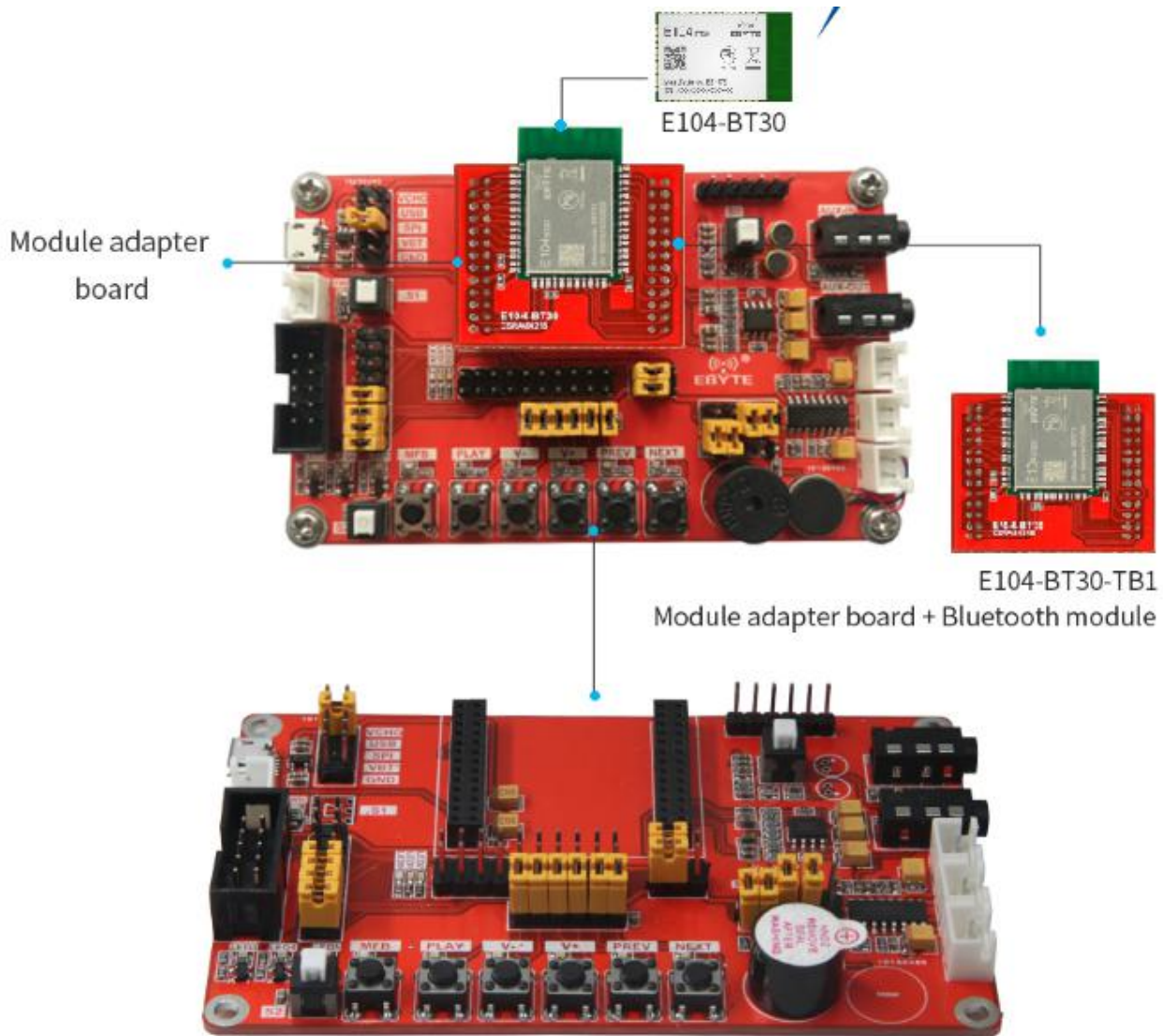
CONTENT

1. Overview.....	2
1.1 Brief introduction.....	2
1.2 Parameters.....	2
2. Functions.....	3
2.1 Module introduction.....	3
3. Quick start.....	5
4. Disclaimer.....	6
5. Revision history.....	6
About us.....	6

1. Overview

1.1 Brief introduction

The E104-BT30-TB test board provides all the functional interfaces required for audio testing, making it easy to quickly test the E104-BT30.



Functional board(can be used for other Bluetooth audio modules)

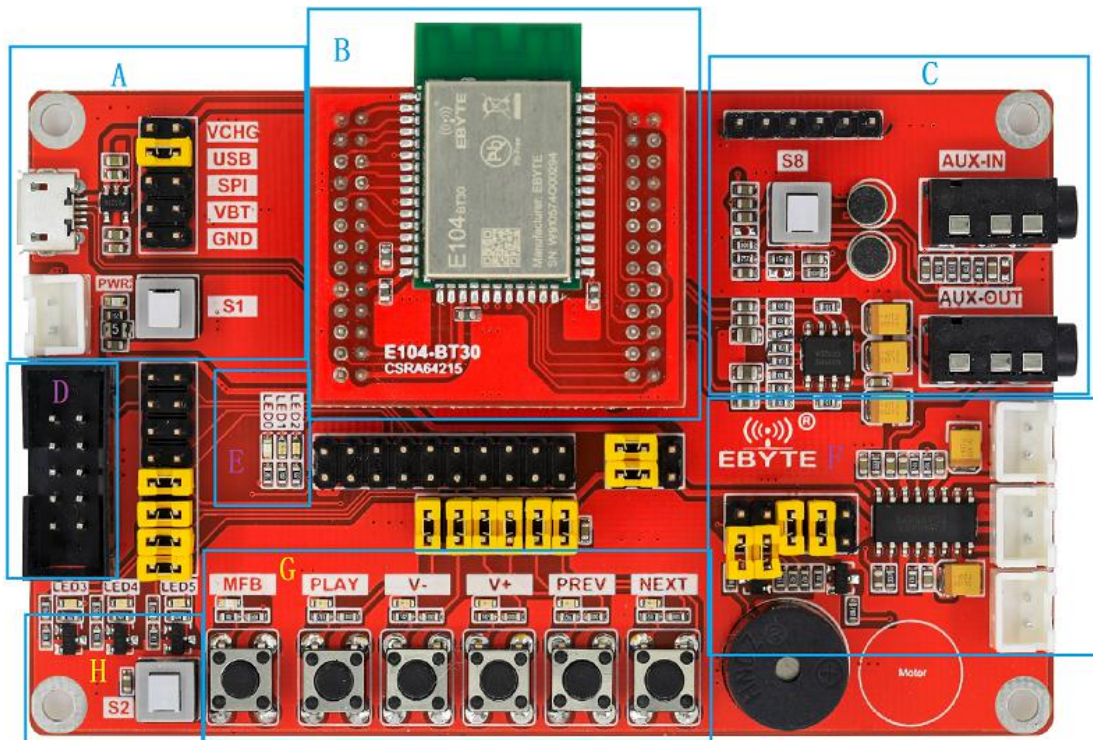
1.2 Parameters

No.	Name	Value	Remark
1	Module	E104-BT30	Audio module

2	Size	100 * 61.8 mm	Includes USB port
4	Power interface	USB/VBT/SPI	Selecting Power by Jumper Cap
5	Work Temp.	-40 ~ +85℃	Industrial grade
6	Work Humid.	10% ~ 90%	Relative humidity, non-condensing
7	Storage Temp.	-40 ~ +125℃	Industrial grade

2. Functions

2.1 Module introduction



LED Indicators:

LED 0: green

LED 1: red

LED 2: blue

Short press time: 300ms

Long press time: 1000ms

Function Sections:

A: Power supply circuit. We provide three power supply methods: USB, battery, and spi. Power can be switched through the jumper at "Power Switch". Note here that only one power supply interface can be used at a time. VCHG is the charging interface (reserved)

In this module, the S1 self-locking switch is the power switch and PWR is the power indicator

(green).

B: Adapter board interface, which can be used with our core board and adapter board.

C: This module is an audio input and output module.

S8: press the key, press to switch the input to the MIC interface, the default is the AUX interface

Mic: mic audio input.

Aux_in: aux input (reserved)

Aux_out: audio output interface (3.55mm headphones)

D: program download interface

E: LED indicating circuit, there are three states of LED combination state, unconnected, connected, and discoverable state

Disconnected state: LED0 flashes twice quickly and then turns off, so reciprocate

Connected status: LED2 is always on

Discoverable status: LED0 and LED2 blink alternately

F: power amplifier circuit

The amplifier circuit is divided into the left channel and the right channel, which can be directly connected to the speaker. Note that our amplifier can only push 3W power.

To use this external amplifier, you need to connect the jumper cap to the F plate as shown in the figure.

G: Button circuit. There are five buttons as shown in the figure above. From left to right are MFB, PLAY, V-, V+, PREV, NEXT.

MFB: It is a start button. Press and hold the power switch. After turning on the phone, it is still in the pressed state to enter the discoverable state. If it is not pressed after turning on, it is in the unconnected state. At this time, the paired mobile phone can directly connect to the module.

PLAY: For music playback, the pause button has the following states.

When the phone is connected, short press the PLAY button to play music and pause playback.

When connecting to a mobile phone, long press to disconnect the current connection and enter the discoverable state. At this time, LED1 will blink once.

When connected to a mobile phone, when there is an incoming call, short press the PLAY button to answer the call.

V-: This button is for volume reduction. It can be divided into long-press and short-press. Long-press can continuously decrease the volume. Short-press decreases it a little.

V +: This button is for volume increase. There are long press and short press for the key. Long press continuously increases the volume. Short press increases it a bit.

Note: The above two volume buttons cannot synchronize the volume of the mobile phone by default.

If you need to synchronize the volume of the mobile phone, you need to turn on the "volume synchronization control" in the developer mode of the mobile phone. After it is turned on, please clear the phone pairing and connect again.

PREV: This button is the previous button, which can control the phone to play the previous music

NEXT: This button is the next song button, which can control the phone to play the next music,

H: switch circuit

If it is currently turned off, press it again to turn it on. If it is turned on, press it again and then turn it off.

Power on, MFB indicator (green) is always on.

Shut down and the MFB indicator (green) goes out.

TWS function:

TWS refers to the multi-connection mode, also called "pair-to-box". Two speakers can be configured as a master and a slave. The master enters the initiating connection mode and the slave enters the waiting connection mode.

Enter TWS host: PLAY button + PREV button, the blue light flashes quickly after pressing both buttons simultaneously for 2 seconds

Enter the slave mode: PLAY button + NEXT button, the blue light flashes quickly after pressing both buttons simultaneously for 2 seconds

When there is a master and a slave, wait for both parties to connect. After the host presses the PALY button for a long time, the phone can connect to the host and use TWS normally.

End TWS connected: Press PREV and NEXT simultaneously for about two seconds to end TWS connected mode.

3. Quick start

Step 1: Connect the USB power supply interface, and then switch the power supply mode to the USB power supply

Step 2: Use 3.55mm headphones to connect to AUX_OUT

Step 3: Press and hold the power button, then press and hold it until it is in a discoverable state

Step 4: Start Bluetooth on your phone, search for the module, and connect it

Step 5: Then the user can follow up the button function to test the Bluetooth module.

4. Disclaimer

This manual is as comprehensive and detailed as possible based on the existing materials. Our company reserves the right to modify the manual without further notice.

This manual is only used as guide. All information in this manual does not constitute any expressed or implied warranty.

5. Revision history

Version	Date	Description	Issued by
1.0	2020-3-23	Initial version	-

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