EWT104-BT14SP

Bluetooth Test Kit



Chengdu Ebyte Electronic Technology Co.,Ltd.

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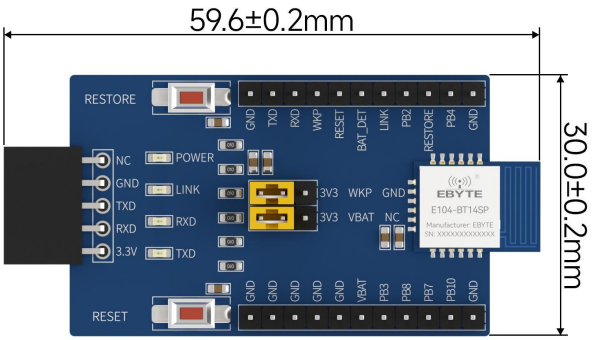
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1 Introduction

1.1.Product Introduction

The E WT104-BT14SP is a Bluetooth test kit based on the E 104-BT14SP module , which can significantly reduce the user's development cycle. For detailed information about the E104- BT14SP , please visit the official website to download relevant documentation for this model .



1.2.Features

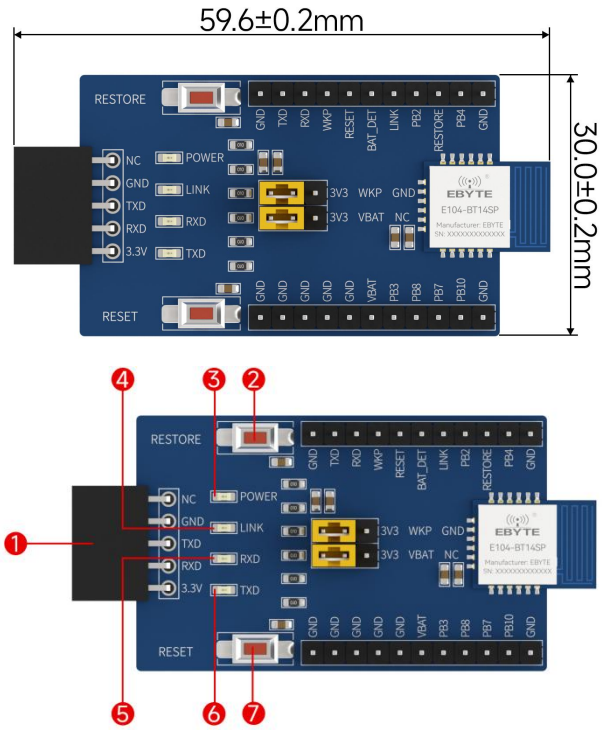
- Supports BLE 5.4 ;
- Supports slave roles ;
- Supports switching between IBeacon and regular broadcast ;
- Supports transmission power modification, with a maximum transmission power of 9 dBm ;
- MTU maximum 247 bytes ;
- Communication interface: UART.

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2 Hardware Description

2.1.Product Dimensions and Pin Definitions

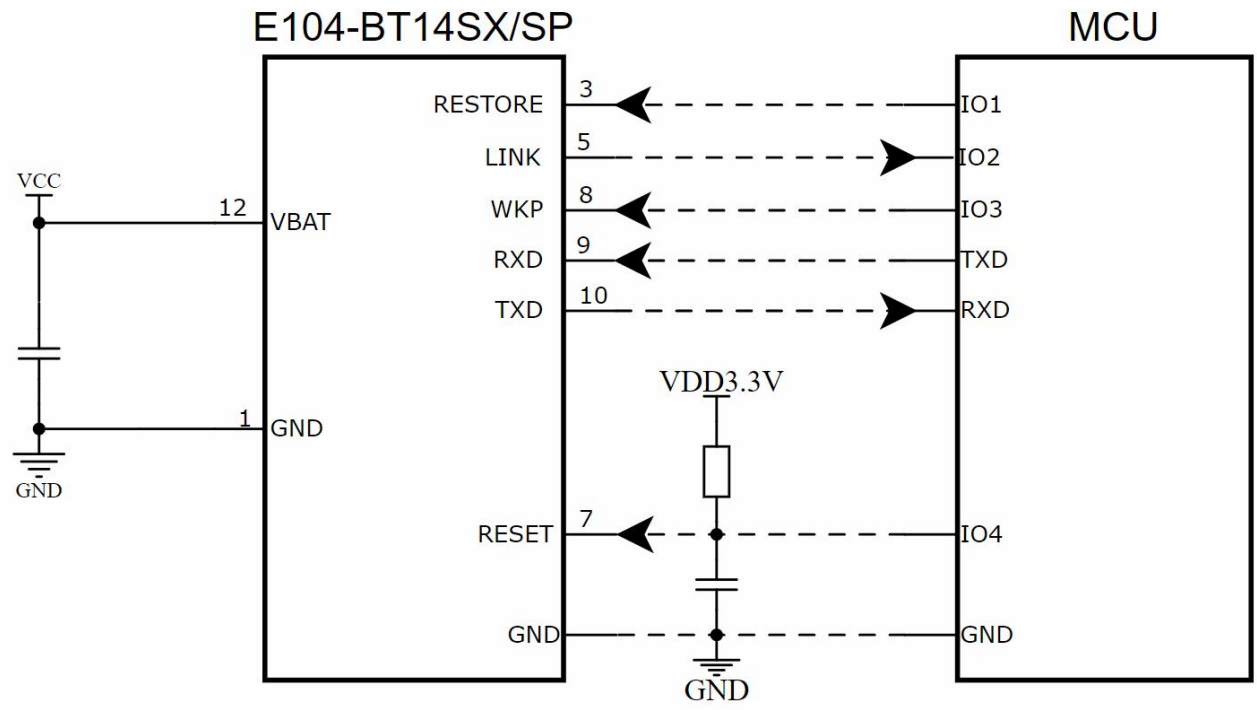


Serial Number	Definition	Description	Remark
1	NC	-	2.54mm pitch female connector
	GND	power ground	
	TXD	Serial output pin	
	RXD	Serial input pin	
	3.3V	DC 3.3V input pin	
2	RESTORE	Factory reset button	-
3	POWER	Power indicator light	-
4	LINK	Connection status indicator light	-
5	RXD	Serial port receiver indicator light	-
6	TXD	Serial port transmit indicator light	-
7	RESET	Reset button	-

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2.2.Recommended Wiring Diagram for Module



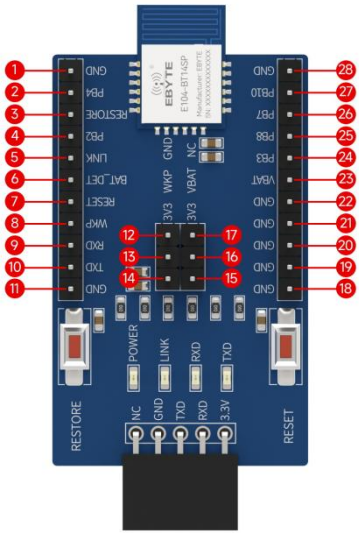
2.3.Special Pin Function Description

Level / PIN	High level	Low level
LINK	Output high level after connection is established	Output high level after connection is broken
RESTORE	By default, it is in the internal pull-up position.	After the falling edge, and then holding the low level for at least 5 seconds, all parameters are restored to factory settings and the module is automatically restarted.
WKP	A high level signal indicates the module enters wake-up mode, and the serial port begins operation.	Default low level, low power mode, serial communication is not possible.
RESET	Normal operation is at a high level.	Input low level module reset

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3 Pin Definitions



Serial Number	Pin Definitions	Pin direction	Description
1	GND	-	power ground
2	PB4	-	Reserved GPIO, users don't need to worry about it.
3	RESTORE	enter	After the internal pull-up switch is held low for at least 5 seconds, all parameters are reset to factory settings and the module automatically restarts.
4	PB2	-	Reserved GPIO, users don't need to worry about it.
5	LINK	Output	Connection status indicator pin: high level indicates connection, low level indicates disconnection.
6	BAT_DET	enter	Battery voltage detection pin
7	RESET	enter	Reset pin, low level reset
8	WKP	enter	The default low level indicates low-power mode, during which serial communication is disabled. Pulling the level high enters normal operating mode, enabling serial communication.
9	RXD	enter	Serial port input
10	TXD	Output	Serial port output
11	GND	-	power ground
12	GND	-	power ground
13	WKP	enter	The default low level indicates low-power mode, during which serial communication is disabled. Pulling the level high enters normal operating mode, enabling serial communication.
14	3V3	Output	DC 3.3V
15	3V3	Output	DC 3.3V
16	VBAT	enter	Positive power supply, 2.5V~5.5V, 3.3V power supply recommended.
17	NC	-	NC
18	GND	-	power ground

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Serial Number	Pin Definitions	Pin direction	Description
19	GND	-	power ground
20	GND	-	power ground
twenty one	GND	-	power ground
twenty two	GND	-	power ground
twenty three	VBAT	enter	Positive power supply, 2.5V~5.5V, 3.3V power supply recommended.
twenty four	PB3	-	Reserved GPIO, users don't need to worry about it.
25	PB8	-	Reserved GPIO, users don't need to worry about it.
26	PB7	-	Reserved GPIO, users don't need to worry about it.
27	PB10	-	Reserved GPIO, users don't need to worry about it.
28	GND	-	power ground

Revision History

Version	Revision Date	Revision Notes	maintainer
1.0	2026-06-03	Initial version	Bin

About Us

Sales Hotline: 4000-330-990

Technical Support: support@cdebyte.com

Official website: https://www.cdebyte.com

Company Address: Building B2, No. 199, West District Avenue, High-tech West Zone, Chengdu, Sichuan Province

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