EWT104-BT56SP User Manual

Bluetooth test kit



Chengdu Ebyte Electronic Technology Co.,Ltd.

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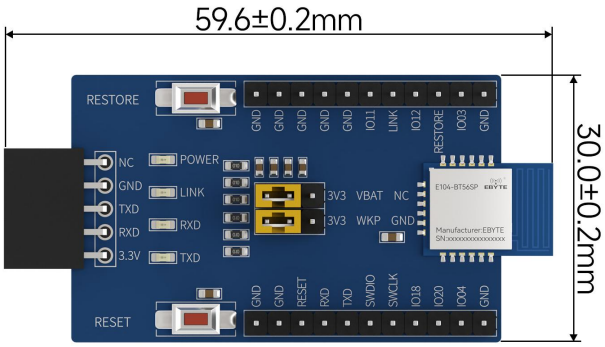
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1 Overview

1.1 Product Introduction

The E WT104-BT56SP is a Bluetooth test kit based on the E 104-BT56SP module , which can significantly reduce the user's development cycle. For detailed information about the E104- BT56SP , please visit the official website to download relevant documentation for this model .



1.2 Features

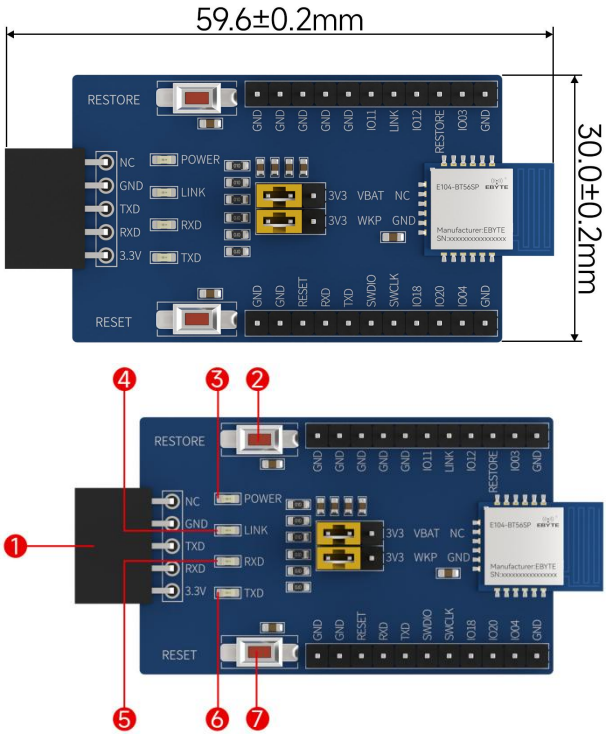
- Supports BLE 5.3 ;
- Supports master, slave, and master-slave roles ;
- Supports switching between IBeacon and regular broadcast ;
- Supports transmission power modification, with a maximum transmission power of 8 dBm ;
- Maximum MTU: 244 bytes;
- Communication interface: UART.

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2 Hardware Description

2.1 Product Dimensions and Pin Definition

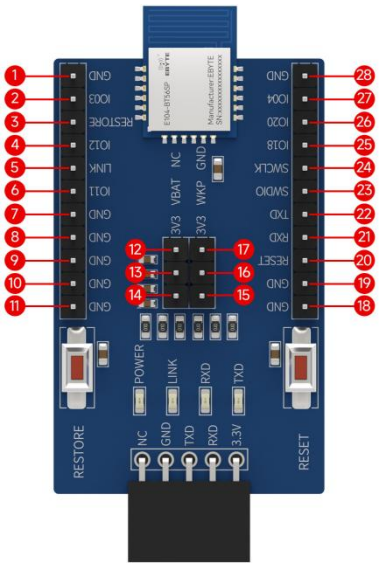


No.	Definition	Illustrate	Remark
1	NC	-	2.54mm pitch female connector
	GND	Power ground	
	TXD	UART transmit pin	
	RXD	UART receive pin	
	3.3V	DC 3.3V input pin	
2	RESTORE	Factory reset button	-
3	POWER	Power indicator light	-
4	LINK	Connection status indicator light	-
5	RXD	Serial port receiver indicator light	-
6	TXD	Serial port transmit indicator light	-
7	RESET	Reset button	-

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3 Pin Definition



No.	Pin Name	Pin direction	Illustrate
1	GND	-	Power ground
2	IO03	-	Reserved GPIO, no operation required for users
3	RESTORE	Input	Internally pulled up; pull low for at least 5 seconds to restore all parameters to factory defaults and auto-restart the module
4	IO12	Output	Data output indicator; high level when BLE data is received over the air, low level after BLE data is fully transmitted via UART
5	LINK	Output	Connection status indicator pin; high level = connected, low level = disconnected
6	IO11	Input	Reserved GPIO, no operation required for users
7 -11	GND	-	Power ground
12	NC	-	-
13	VBAT	Input	Positive power supply, 1.8 V ~ 3.6 V, 3.3 V recommended
14	3V3	Output	DC 3.3V
15	3V3	Output	DC 3.3V
16	WKP	Input	Default low level (low-power mode, UART communication disabled); pull high to enter normal working mode (UART communication enabled, edge-triggered)
17-19	GND	-	Power ground
20	RESET	-	Reset pin, low level reset
21	RXD	Input	UART receive pin
22	TXD	Output	UART transmit pin
23	SWDIO	-	Reserved GPIO, no operation required for users
24	SWCLK	-	Reserved GPIO, no operation required for users
25	IO18	Output	Log UART output, disabled by default; may be left floating if unused
26	IO20	-	Reserved GPIO, no operation required for users
27	IO04	-	Reserved GPIO, no operation required for users

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No.	Pin Name	Pin direction	Illustrate
28	GND	-	Power ground

Revision History

Version	Revision Date	Revision Notes	maintainer
1.0	2026-06-24	Initial version	Bin

About Us

Hotline：4000-330-990

Technical support: support@cdebyte.com

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Address: B5, Mould Park, 199# Xiqu Ave, High-tech District, Chengdu, Sichuan, China

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