E104-BT05-TB User Manual V1.0

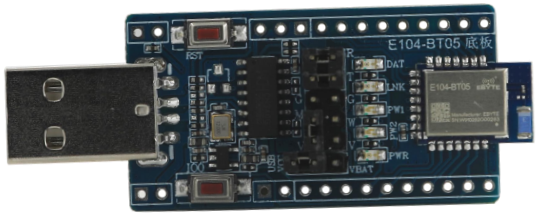


Chengdu Ebyte Electronic Technology Co.,Ltd.

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

1. Overview

1.1 Features



The test backplane of E104-BT05-TB adopts USB interface, which can be used to quickly test the features and functions related to E104-BT05 Bluetooth.

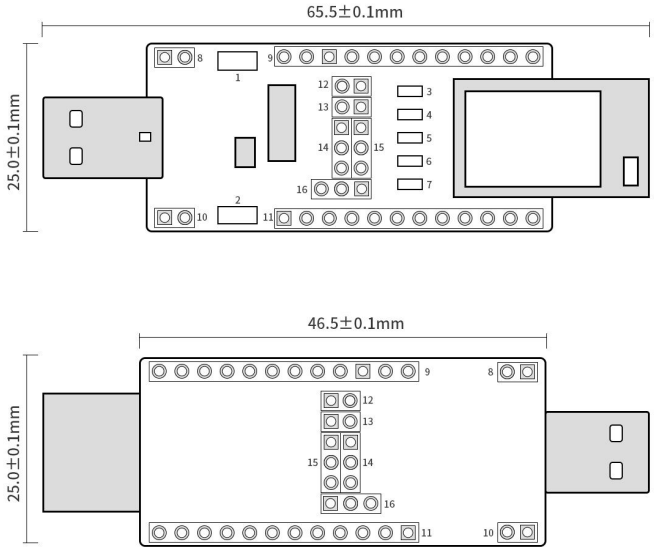
1.2 Electrical performance parameters

NO.	Parameter name	Parameter value	Note
1	Support module	E104-BT05	BLE_transparent transmission module
2	Test plate size	46.5 * 25 mm	USB connector and module not included
3	Production process	Lead free process, machine pasted	Wireless products must be machine pasted to ensure batch consistency and reliability
4	Power supply interface	USB	-
5	communicatio n interface	TTL	-
6	Working temperature	-40 ~ +85℃	Industrial grade
7	Operating humidity	10% ~ 90%	Relative humidity, non condensing
8	Storage temperature	-40 ~ +125℃	Industrial grade

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2. Function

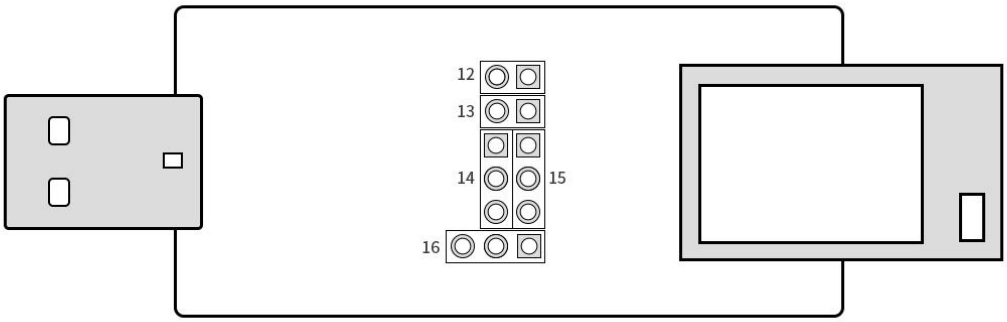
2.1 Dimension and function definition



NO.	Function	Description
1	Reset button	Module reset key, valid at low level
2	IO0 button	Available for I00 level reading
3	Data indication LED	Yellow LED for data indication
4	Connection indication LED	Yellow LED for connection indication
5	PWM1 indication LED	Blue LED for PWM1 wave indication
6	PWM2 indication LED	Blue LED for PWM2 wave indication
7	Power indicator LED	Red LED for normal power supply indication of test board
8	VBAT power port	External power supply 2.7-3.6V
9	Module pin out	For easy debugging, refer to manual E104-BT05
10	USB power port	USB power 5V output
11	Module pin out	For easy debugging, refer to manual E104-BT05
12	Module RXD processing	Short circuit the jumper cap, and connect the module RXD (receiving pin) with the serial port chip TXD pin of the test board
13	Module TXD processing	Short circuit the jumper cap, and connect the module TXD (sending pin) with the serial port chip RXD pin of the test board
14	Module Mode Configuration	The module is connected. Short circuit the upper two pins to enter the configuration mode. Short circuit the lower two pins (or hang in the air) to enter the transparent mode
15	Module wake-up processing	After the module is disconnected and enters sleep through the command, short circuit the upper two pins once, and the module wakes up
16	Module power supply mode selection	Short circuit two pins to the left, select USB internal power supply mode, short circuit two pins to the right, select VBAT external power supply

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2.2 Quick start



As shown in the figure above, for the serial numbers 12 and 13, use the jumper cap to short circuit, for the serial number 16, short circuit the left two pins, select the USB internal power supply mode, and you can directly use the serial port assistant to test.

2.3 CH340 Drive installation

The USB to TTL chip used in this test board is CH340. If it is used for the first time, the PC will prompt you to install a new device driver. You can download and use the driver software provided by our company or search and download on the Internet by yourself.

3. Customized cooperation

★If customers need to customize products, please contact us.
★Ebyte has reached deep cooperation with many well-known enterprises.

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

4. About us



EBYTE is a company specialized in providing wireless data transmission solutions and products

◆ Independent research and development of hundreds of models of products and software;

◆ Wireless transparent transmission, WiFi, Bluetooth, Zigbee, PKE, digital radio, etc;

◆ It has nearly 100 employees, tens of thousands of customers and millions of products;

◆ Its business covers more than 30 countries and regions around the world;

◆ It has passed the certification of ISO 9001 quality management system and ISO 14001 environmental system;

◆ It has a number of patents and software copyrights, and has passed the international FCC/CE/ROHS and other authoritative certification.

Sales hotline: 4000-330-990 Tel: 028-61399028
Support: support@cdebyte.com Website: https://www.cdebyte.com
Address: Innovation Center B333~D347, 4# XI-XIN road,High-tech district (west), Chengdu, Sichuan, China

Chengdu Ebyte Electronic Technology Co.,Ltd.

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000