成都亿佰特电子科技有限公司
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# E220-400TBH-01 Datasheet v1.0



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## The attention

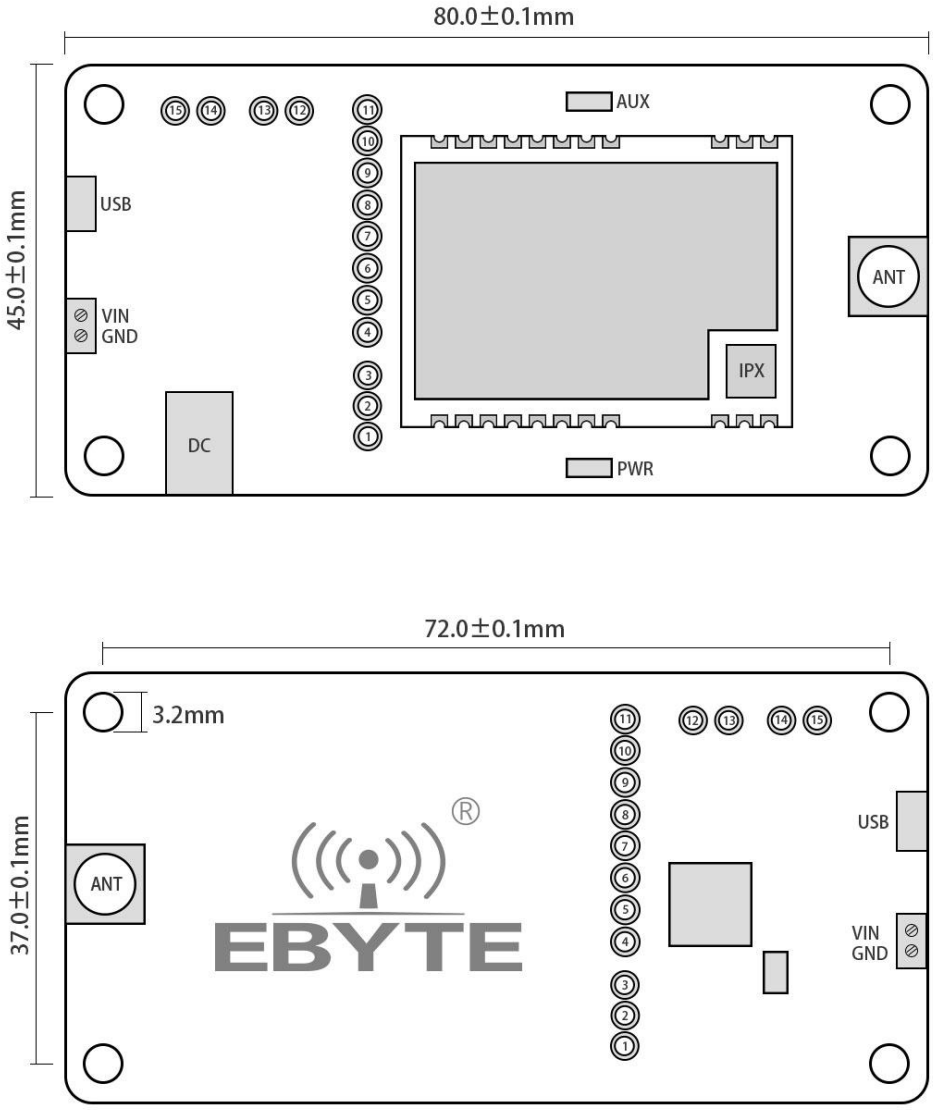
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## 1. Introduction

E220-400TBH-01 is a set of test kits formed by serial SMD serial port module combined with USB to TTL serial port for customer's testing and development, which greatly reduces the difficulty of testing and development. About more details, please refer to manual of module E220-400T30S.

## 2. Size and Pin Definition



| Pin | Value | Function |
|---|---|---|
| 1 | 5V | Jumper short connected with VCC，for power input |
| 2 | VCC | Power input |
| 3 | VBUS | VBUS(USB power supply），Jumper short connected with VCC，for power input |
| 4 | GND | Ground |
| 5 | VCC | Power input |
| 6 | AUX | Check more from manual of E22 module |
| 7 | RXD | RXD，to connect TXD of module for test |
| 8 | TXD | TXD，to connect RXD of module for test |
| 9 | NC3 | / |
| 10 | NC2 | / |
| 11 | NC1 | / |
| 12 | GND | Ground，often work with M0 |
| 13 | M0 | Pin M0 for mode selection，suspending means“1”，when short connected with GND, it is“0” |
| 14 | M1 | Pin M1 for mode selection，suspending means“1”，when short connected with GND, it is“0” |
| 15 | GND | Ground，often work with M1 |

Notes：

1. Wiring terminal or DC are optional. User can select only one way, then the other way become invalid when using.
2. External power supply of 8 – 28V DC

# 3. Quick Start

## 3.1. Test preparation

### 3.1.1. Install driver

Download driver program CH341SER.EXE from Ebyte website，double click to install. The driver program supports 32/64 bit Windows 10/8.1/8/7/VISTA/XP，SERVER2016/2012/2008/2003，2000/ME/98，with software digital signature authentication，good for USB to 3-wire and 9-wire serial port connection.

### 3.1.2. Connect to hardware

Prepare power adaptor、Micro USB cable、antenna、power supply，connect them to test board EXX-XXXTBH-01，open corresponding serial port.

## 3.2. Communication in Mode 0




As shown above，connect to jumpers（5V power supply，mode 0），both EXX-XXXTBH-01 are configured this way，open serial port，for data TX and RX，and AUX indicator is blinking.




### 3.3. Other modes




As shown above，connect to jumpers（5V power supply，mode 1），see function details from E22 UART module manual.




As shown above，connect to jumpers（5V power supply，mode 2），see function details from E22 UART module manual.




As shown above，connect to jumpers（5V power supply，mode 3），see function details from E22 UART module manual.

# Revision history

| Version | Date | Description | Issued by |
|---|---|---|---|
| 1.0 | 2020-11-19 | Initial version | Linson |
| | | | |

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