FSC-DB006 User Guide

Release 3.8.0

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[中文版]

This guide introduces how to use the FSC-DB006 and provides further information about this development board.

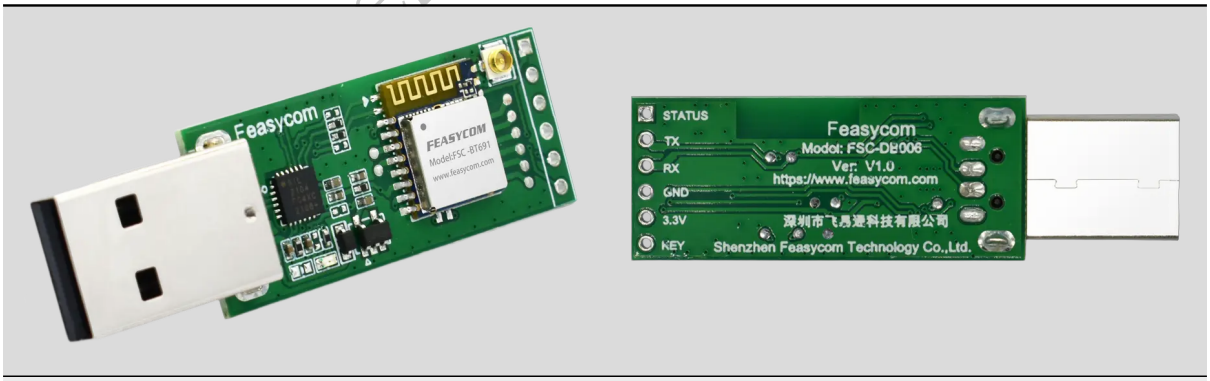
Chapter 1

Overview

FSC-DB006 is a rapid test board equipped with a USB interface. It is compatible with various Feasycom Bluetooth data transmission modules adopting the 10mm×11.9mm stamp hole 20-Pins package, such as the FSC-BT691, FSC-BT630, FSC-BT681, FSC-BT671x series, etc. Compared with using the Bluetooth module alone, its built-in USB enables direct connection to Windows PC, which not only saves time but also ensures stability during testing.

When used with Feasycom’ s UART Communication Testing Tool, users can fully control the Bluetooth module via AT commands, facilitating an efficient development and testing process.

This development kit supports SPP, GATT, and HID protocols, further enhancing its flexibility in adapting to diverse applications.



FSC-DB006 With FSC-BT691module - Side	FSC-DB006 With FSC-BT691module - Back

Chapter 2

Scope of Application

Applicable to :

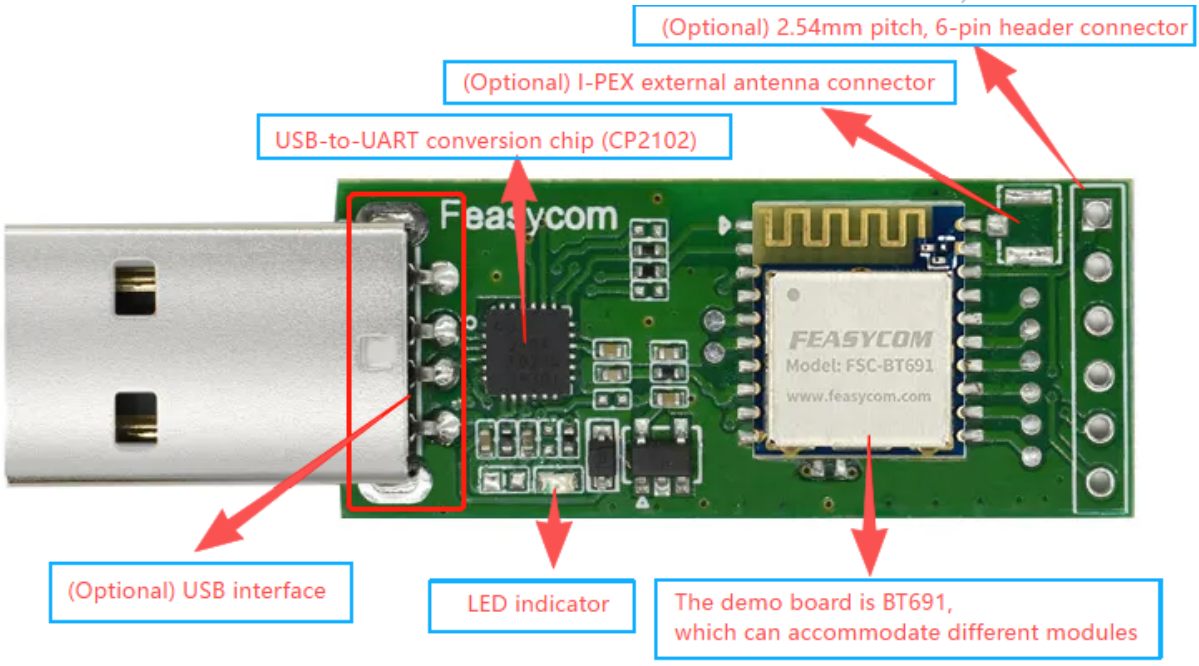
- FSC-BT691
- FSC-BT630
- FSC-BT681
- FSC-BT671x Series

  …

and other Feasycom Bluetooth modules with 10mm×11.9mm stamp-type 20-pin package, for data transmission communication development.

Chapter 3

Functional Components



Chapter 4

What You Need

Take FSC-DB006 with BT691 an example :

4.1 Required Hardware

- 1 x FSC-DB006-BT691 : an FSC-DB006 development board integrated with Feasycom FSC-BT691 (optional) Bluetooth dual-mode data transmission module.
- 1 x PC（Windows / Mac）

4.2 Software and Setup

- Serial_Driver : CP210x Universal Driver for Windows PC, generally plug-and-play, install this driver if the PC fails to recognize the device in specific environments.
- Feasycom Serial Port Tool : A serial communication analysis tool based on Windows PC.
- FeasyBlue App : Feasycom APP & SDK resource supporting Android and iOS, which enables functions such as Bluetooth BLE & SPP data communication test, Feasycom module firmware version reading, firmware OTA upgrade, OTA command, parameter configuration, etc.
- Communication Interface : UART
- UART Configuration: 115200/8/N/1 (Feasycom general firmware default)

Chapter 5

Hardware Access

5.1 Power-on Options

- 3V3 / GND pin power supply
- USB 5V Power Supply

Warning :

The above power supply modes must not be connected simultaneously, as this may damage the development board and/or the power source.

5.2 Hardware Access Note

- Before powering on, ensure the development board is intact and all components are secure without looseness or shorts.
- Development board connects to a PC via a USB.
- After powering on, the LED lights up steadily, indicating the module is powered normally and ready for test.

Chapter 6

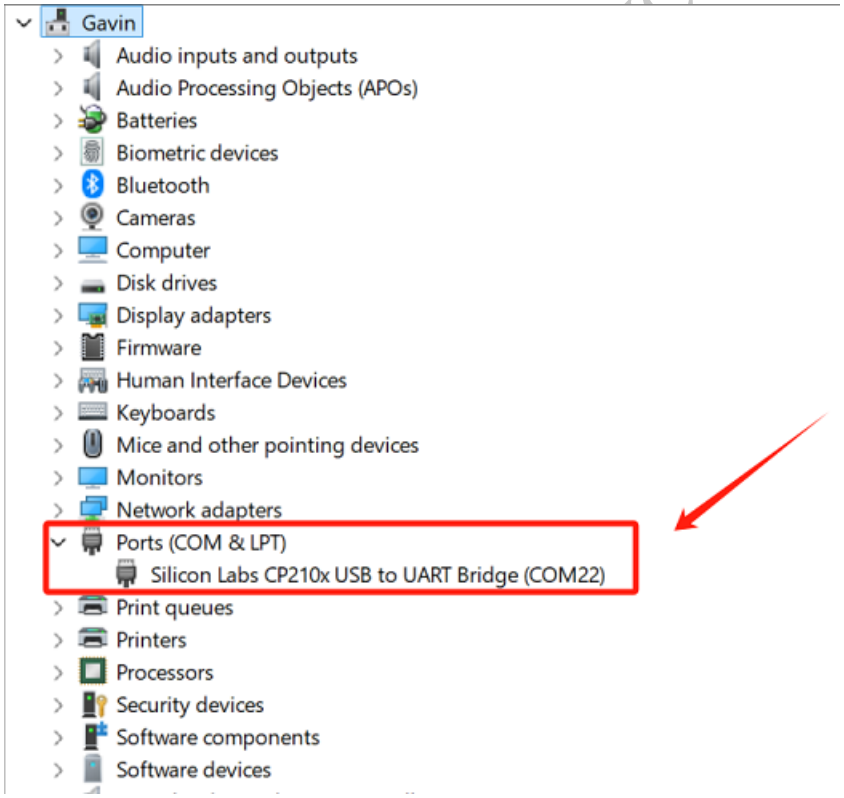
Communication Test

1.Power Supply Connection

Connect the intact development board FSC-DB006-BT691 to a PC via USB;

2.Serial Port Recognition

The PC detects the USB serial device and generates a virtual COMx.

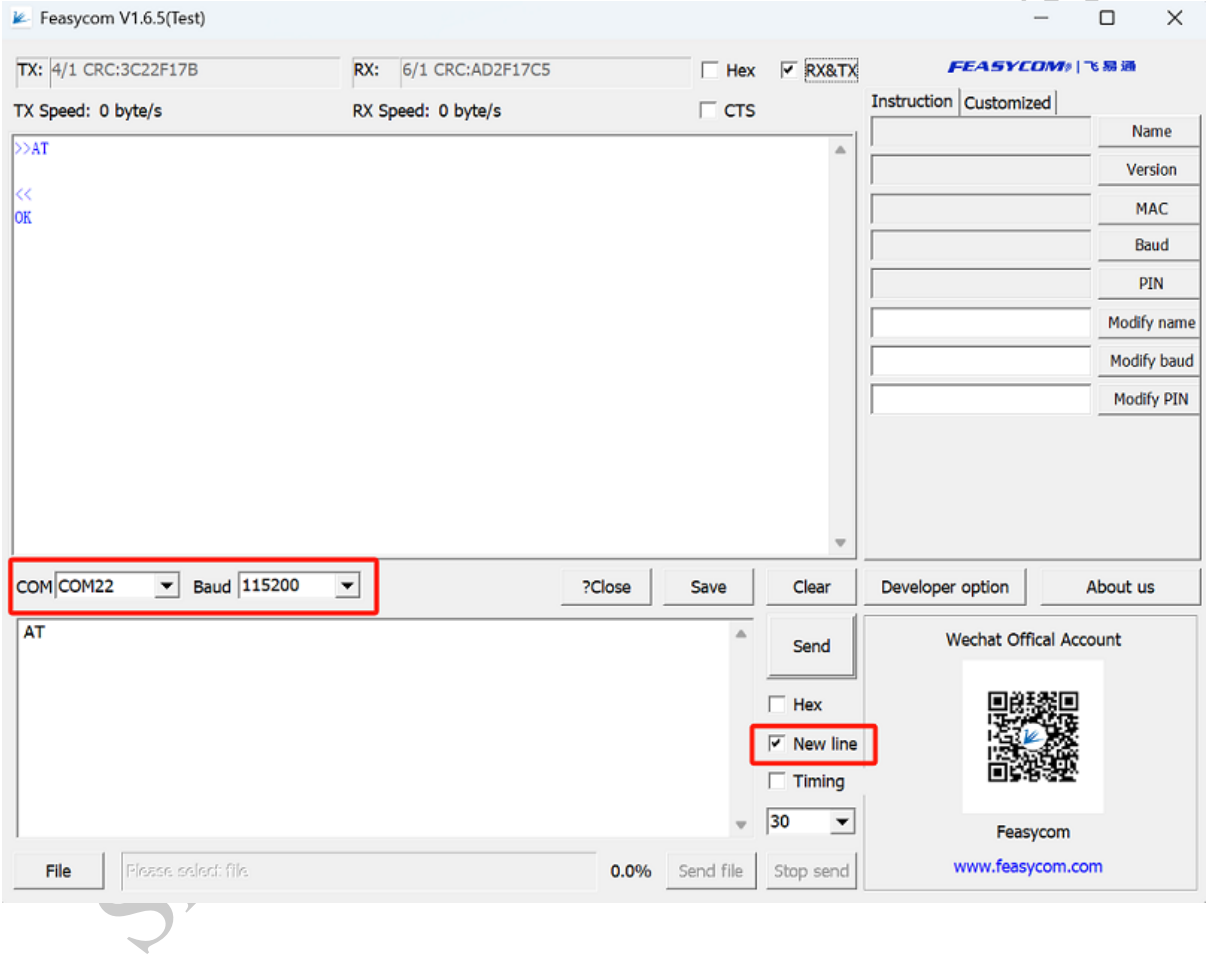


3.UART Communication Test

Run the Feasycom Serial Port Tool on the PC, set the correct **COM** and **Baud**, and check the **New Line**.

Send the UART communication test command `AT`. If the response is `OK`, it indicates the serial communication test is successful.

Command	AT\r\n
Response	**\r\nOK\r\n**
Description	Test the UART communication between HOST and Module after power on, baudrate changed, etc.



Chapter 7

Related Documents

- FSC-DB006 DK Board Schematic (PDF)
- FSC-BT691 BLE General Data AT Command Manual (LINK)

Chapter 8

Contact Information

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Chapter 9

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