FSC-DB005 User Guide

Release 2.0.5

Table of contents

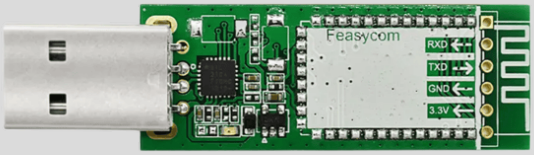
[中文版]

This guide introduces how to use the FSC-DB005 and provides further information about this development board.

Chapter 1

Overview

FSC-DB005 development board is compatible with a variety of Bluetooth modules adopting the 13mm×26.9mm stamp-type 36-pin package, such as the FSC-BT826x Series, FSC-BT836x Series, FSC-BT910x Series, and FSC-BT909C. Compared with these Bluetooth modules, the FSC-DB005 provides users with a more convenient and user-friendly product testing experience. It is equipped with a USB interface for direct connection to a computer, which not only saves time but also ensures stability during testing. This USB development kit supports communication via the SPP, GATT, and HID profiles, further enhancing its flexibility in adapting to diverse application requirements.



FSC-DB005 - Front

FSC-DB005 - Back

Chapter 2

Scope of Application

Applicable to

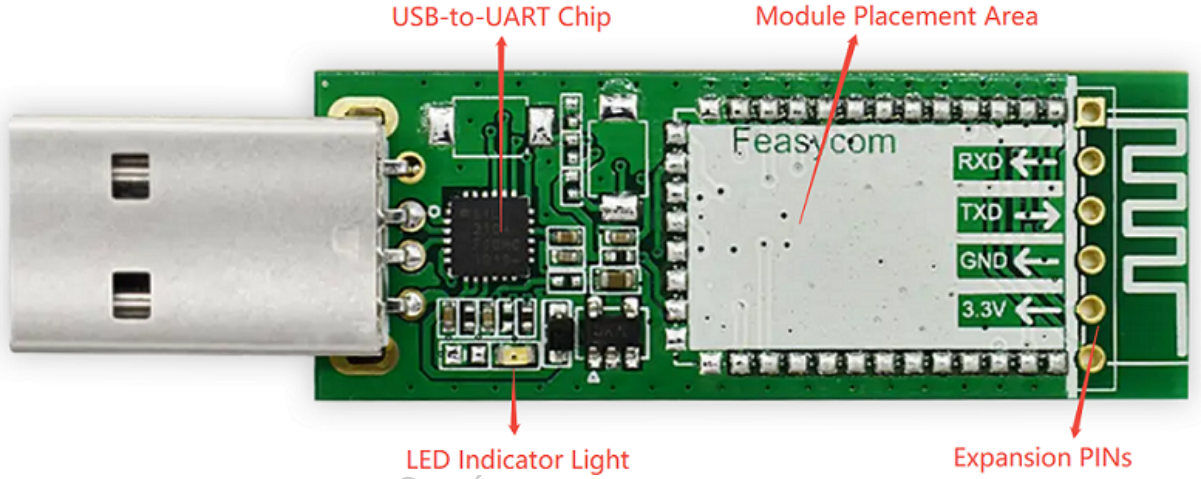
- FSC-BT616
- FSC-BT618
- FSC-BT826x Series
- FSC-BT836x Series
- FSC-BT910x Series

  …

and other Feasycom Bluetooth modules with 13mm×26.9mm stamp-type 36-pin package, for data transmission communication development.

Chapter 3

Functional Components



Component	Description
USB	USB 2.0 interface, which can be used to connect to a computer
Module Placement Area	Module SMT Area, supporting Feasycom 13mm*26.9mm stamp 36-pin Bluetooth modules
LED	LED Indicator Light
VCC	3.3V Power Supply
GND	GND
TXD	UART_TX
RXD	UART_RX

Chapter 4

What You Need

4.1 Required Hardware

- 1 x FSC-DB005-BT9101 : an FSC-DB005-USB development board with Feasycom FSC-BT9101 (optional) Bluetooth dual-mode data transmission module integrated.
- 1 x PC (Windows / Mac)
- 1 x Mobile Phone (Android / iOS)

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 : Feasycom APP & SDK resource supporting Android and iOS platforms, which enables functions such as Bluetooth BLE & SPP data communication debugging, Feasycom module firmware version reading, firmware OTA upgrade， parameter configuration, etc.
- **Communication Interface**: UART
- **Serial 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

Note : 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

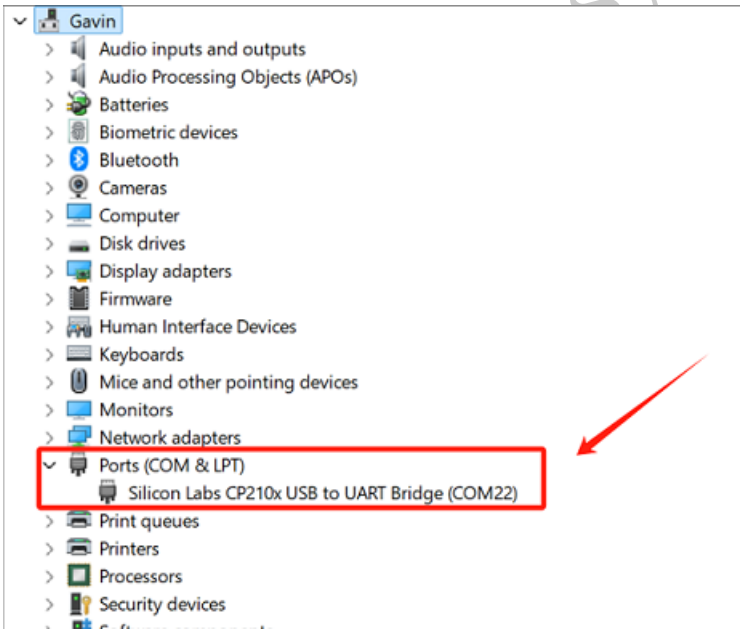
- Before powering on, ensure the development board is intact and all components are secure without looseness or shorts;
- Development board connects to a PC via a USB;
- After powering on, the LED lights up steadily, indicating the board is powered normally and ready for debugging.

Chapter 6

Quick Start

6.1 Hardware Access and Start

1. Power Supply Connection: Connect the intact development board FSC-DB005-BT9101 to a PC via USB.
2. Serial Port Recognition: The PC detects the USB serial device and generates a virtual COMx.



6.2 AT - Serial Communication Test

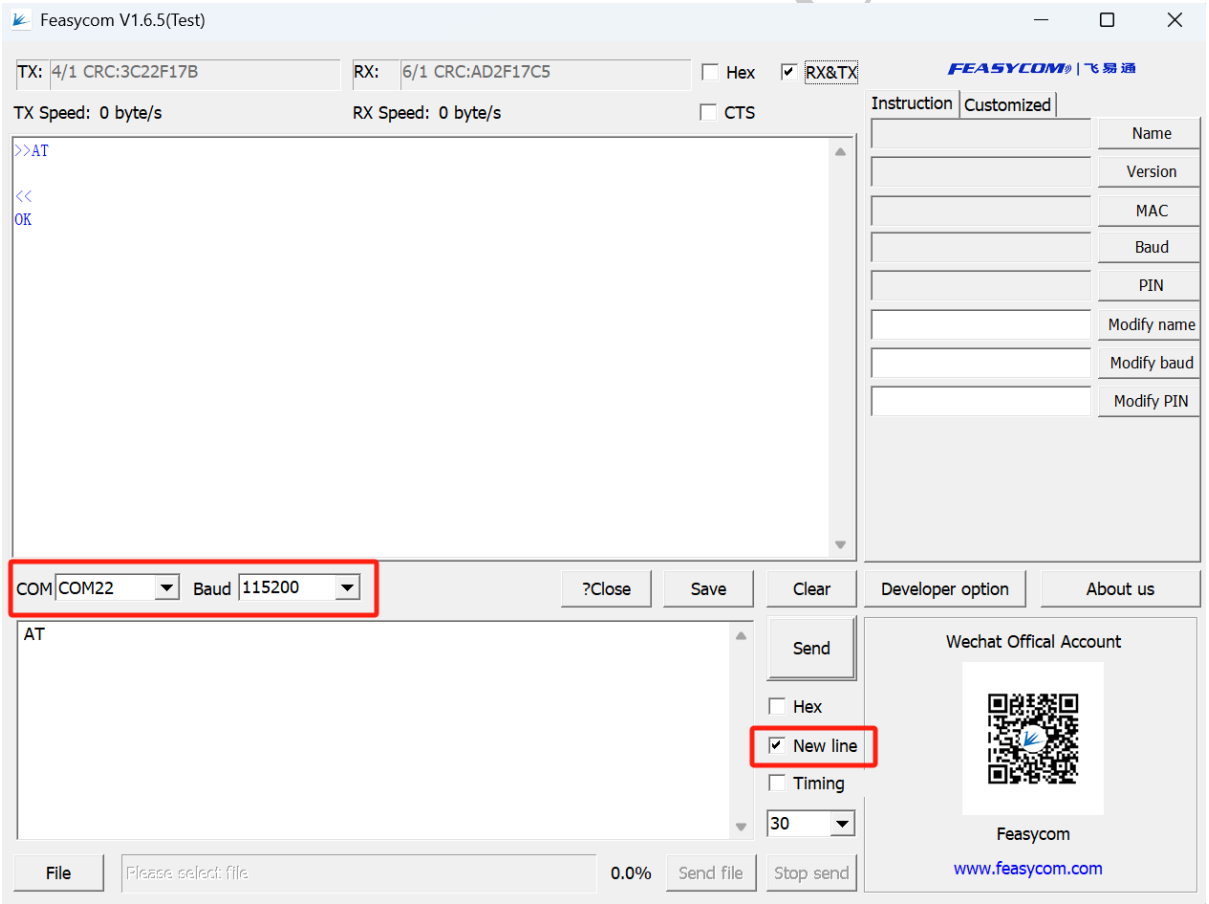
On the PC, open Feasycom Serial Port Tool , automatically obtain or manually select the matching **COM**, set the correct baud rate **Baud ** (e.g., 115200), check **New Line**, and send

the serial communication test command `AT`. If it responds with `OK`, it indicates that the serial communication test is successful. Example:

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

Example:

```
send:     >>AT\r\n
response: <<\r\nOK\r\n   //Successfully
```



Chapter 7

Related Documents

- FSC-DB005 DK Board Schematic (PDF)

Chapter 8

PDF Download

- PDF Download