

FSC-DB008 User Guide

Release 2.0.5

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[中文版]

This guide will introduce how to use the FSC-DB008 audio and data transmission development board, and provide more information about this development board.

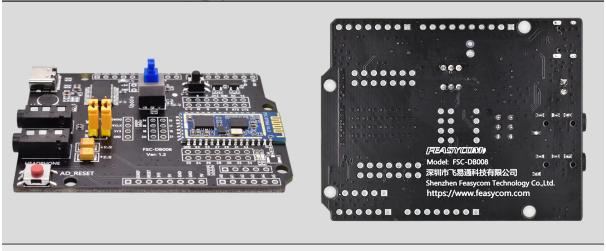


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Overview

The FSC-DB008 Development Board integrates Type-C (supporting UART/USB/charging/power supply), audio input/output, a microphone, a lithium battery, buttons, a reset button, 2.54mm-pitch pin headers, and status indicator LEDs. It can be used with our company's serial assistant and AT commands for function testing, helping customers familiarize themselves with our products, shorten the development cycle, and improve efficiency.

The FSC-DB008 is also a plug-and-play sub-development board designed specifically for Arduino UNO, enabling Arduino developers to evaluate Feasycom Bluetooth audio modules more effectively.



FSC-DB008 with FSC-BT966 module - Side FSC-DB008 with FSC-BT966 module - Back

Scope of Application

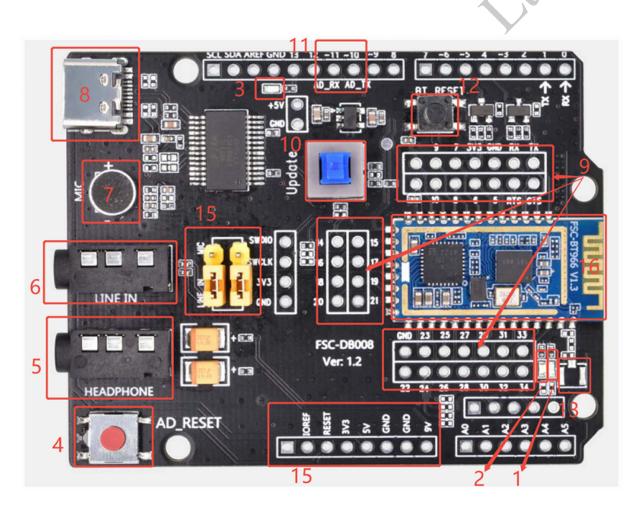
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Applies to:

- FSC-BT1036B
- FSC-BT936B
- FSC-BT966
- FSC-BT909C

and other Feasycom Bluetooth audio modules for application development.

Functional Components



Description by labeled number

No.	Component	Description
1	Indicator	Bluetooth status indicator LED (LED1); red LED stays on when the
	LED (LED1)	device is connected.
2	Indicator	Bluetooth operation indicator LED (LED2); blue LED flashes when
	LED (LED2)	the device is disconnected, and stays on when connected.
3	Indicator	Arduino reset LED; blue in color.
	LED (LED3)	
4	Arduino	Arduino reset button.
	Board Re-	
	set Key	
5	Headphone	SPK_Out; standard 3.5mm headphone output interface.
6	Line IN	Line_In; standard 3.5mm audio input interface.
7	MIC	Microphone audio input interface.
8	Type-C	Type-C power supply/serial data communication interface.
9	Module Pin	Pin header interface for module pin expansion.
	Expansion	
10	Key Port	Download key (for BT966 only).
11	Arduino	Pin header interface for Arduino UART-TX/RX expansion.
	UART-	
	TX/RX	
12	BT Reset	Bluetooth reset button.
13	RF(external)	IPEX patch position for external antenna.
14	Arduino	Power/multi-function expansion pin header for Arduino.
	Power	
15	MIC/Line_IN	Switch for MIC/Line_IN selection.
	select	
16	Module	The sample shown in the diagram is the BT966 module.
	Placement	

What You Need

4.1 Required Hardware

- 1 x FSC-DB008-BT1036B Development KIT : FSC-DB008 development board preintegrated with a FSC-BT1036B (optional)
- 1 x USB-to-Type-C data cable
- 1 x PC (Windows / Mac)
- 1 x Mobile phone or music player
- 1 x AUX 3.5mm audio cable (optional)
- 1 x Bluetooth speaker or wired audio input Bluetooth headset (optional)

4.2 Software and Setup

- **Serial Driver**: FT232r_Universal_Windows_Driver.zip 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

• **UART Configuration:** 115200/8/N/1 (Feasycom general firmware default)



Hardware Access

5.1 Power-on Options

The development board can be powered by any one of the following methods:

- Type-C power supply (default)
- 3V3 / GND pin power supply

Note: Do not connect the above power supply modes simultaneously, as this may damage the development board and/or the power supply.

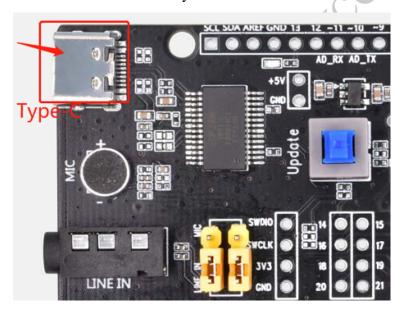
5.2 Hardware Access Note

- Before power-on, confirm that the development board is intact and that no components are loose or stuck together.
- Connect the development board to the PC using a USB-to-Type-C cable.
- After power-on, the LEDs on the development board flash, indicating that the module is operational and ready for debugging.

Quick Start

6.1 Hardware Access and Start

Connect the Type-C port (Component 8) of the development board (FSC-DB008-BT1036B) to the PC using a USB-to-Type-C cable. A slow flash of Indicator LED (LED1) indicates that the module has started normally.



6.2 Serial Port Recognition

The device supports plug-and-play (no additional component control required). The PC will recognize the USB serial device and generate a virtual COMx port.



6.3 AT - Serial Communication Test

Open the Feasycom Serial Debug Assistant on the PC. Automatically detect or manually select the corresponding serial port (COMx), set the matching baud rate, (e.g., 115200), check Send New Line, and send the serial communication test command ${\tt AT}$, If the response is ${\tt OK}$, the serial communication test is successful. The command format and example are shown below:

Com- mand	AT\r\n
Response	\r\nOK\r\n
Descrip-	Test the UART communication between HOST and Module after power on,
tion	baudrate changed, etc.

Example:

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



Application Examples

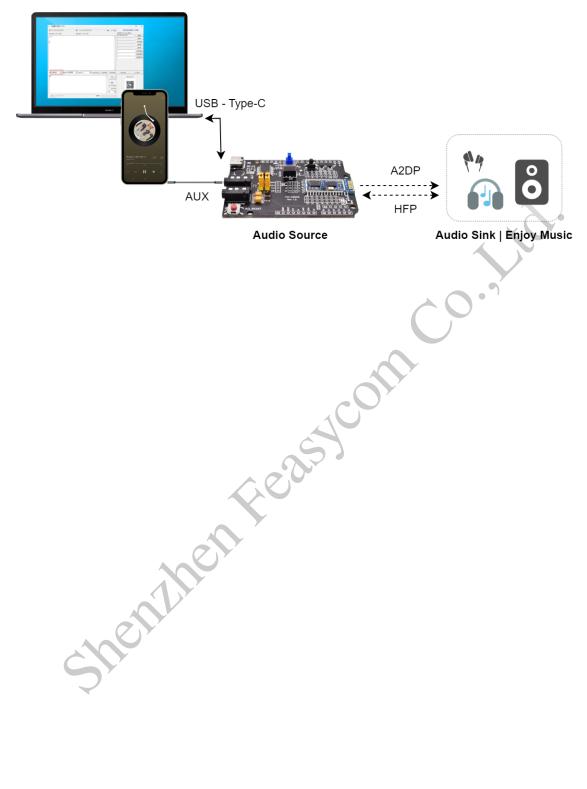
7.1 Audio Sink Mode

7.1.1 Application Diagram



7.2 Audio Source Mode

7.2.1 Application Diagram



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