FSC-DB218

Development Board User Guide

Version 1.0

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Revision History

Version	Date	Record	Author
1.0	2024/11/14	Original Ver	Origami

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1. Introduction

Summary

FSC-DB218 development board integrates Type-C(including UART/USB/ charging/power supply), audio input and output, microphone, lithium battery, buttons, reset buttons, status indicator lights and so on.

It can be used in conjunction with our serial assistant and AT instruction for functional testing, which is convenient for customers to be familiar with our products, shorten the development cycle and improve efficiency.

The development board is as follows:

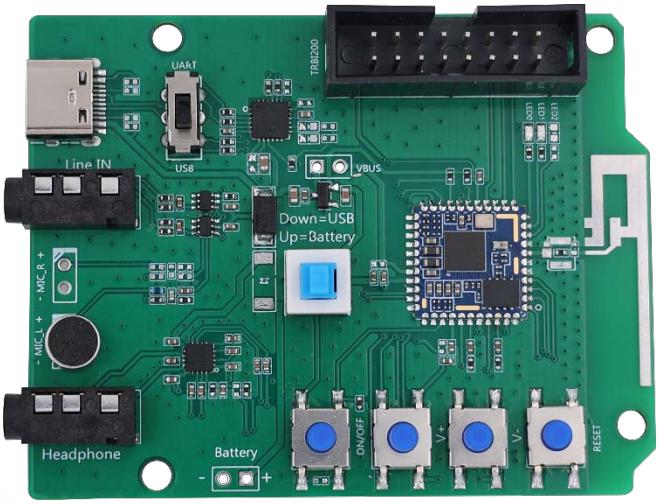

Figure 1: DB218 Diagram

Features

- All-in-one Type-C
- Universal 3.5 headphone jack input
- Universal 3.5 headphone jack output
- Built-in microphone for call testing
- Lithium battery/USB power supply
- Button control (power on/off/pause/volume/up and down) and one-button reset
- Multi-function indicator light to indicate status
- RF interface (non-standard), convenient for testing RF signals
- Built-in USB to serial port chip
- Built-in headphone amplifier chip, can drive 16/32 ohm headphones

Application

- BT1046

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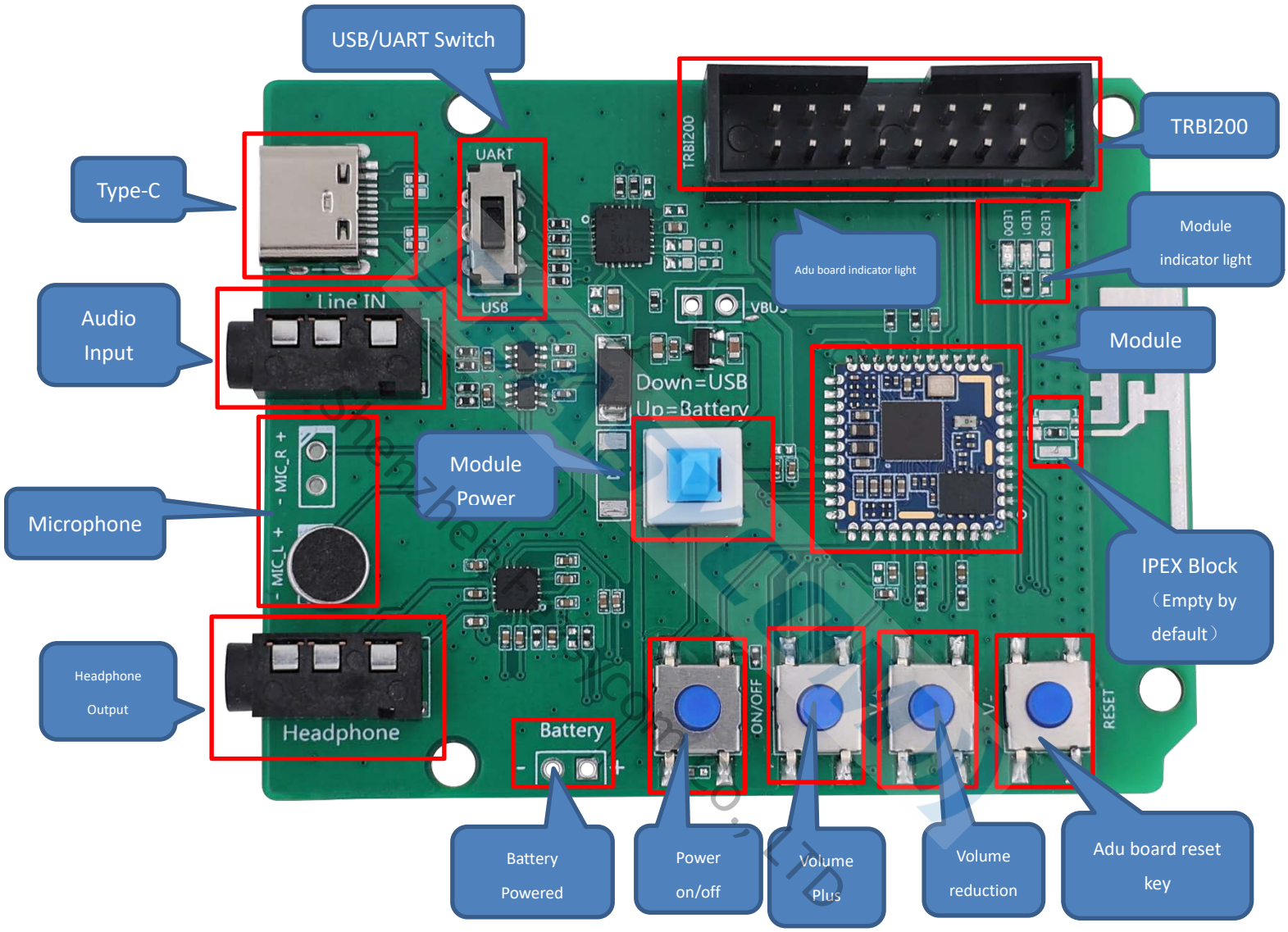
2. Function Description

2.1 Layout



2.2 Function Description

No.	Sign	Description	Note
1	Type-C	Power the module/communicate with the module/charge the battery through the module.	*
2	USB/UART Switch	You can choose UART to communicate with the module or USB function of the module (not all modules have USB function)	
3	Microphone	HFP(used for incoming and outgoing calls, L channel is used by default) and applications that require a microphone.	
4	Audio Input	Standard 3.5mm audio socket	
5	Headphone Output	Standard 3.5 headphone output, which can drive 16/32 ohm speakers, with a maximum of 60mW.	

6	Adu board reset key	Reset the extended Adu board.	
7	Battery Powered	Lithium battery interface. 3.7V~4.2V 。 This voltage cannot be exceeded, otherwisethe module will be damaged.	
8	Volume Plus	Short press volume increase/long press next song.	
9	Volume reduction	Short press the volume to decrease/long press the previous song	
10	Power on/off	Long press to turn on/off, play music: short press to pause/play, incoming call: short press to answer, then short press to hang up.	
11	Adu board indicator light	Adu board status indication	
12	External IPEX Block	Module external antenna connecting seat	
13	Module	Can support BT1046	
14	TRBI200	TRBI200 programming device interface, empty by default.	
15	Battery charging/module upgrade	Charging the battery in short circuit state, module upgrading/frequency fixing	
16	Module power supply	Short circuit: the module is powered by Type-C, and disconnected: the module is powered by the battery, or the battery is charged when Type-C has input voltage and "battery charging/module upgrading pin arrangement" is short-circuited.	
17	Module indicator light	The blue light flashes for pairing, and the long light is connected. The green light ison, and the SPP/BLE connection is successful	
Notes：Only by pressing*which three combinations the battery can be charged and the maximum is 200mA.In general, this function is turned off by default. It is not all modules support battery charging.			

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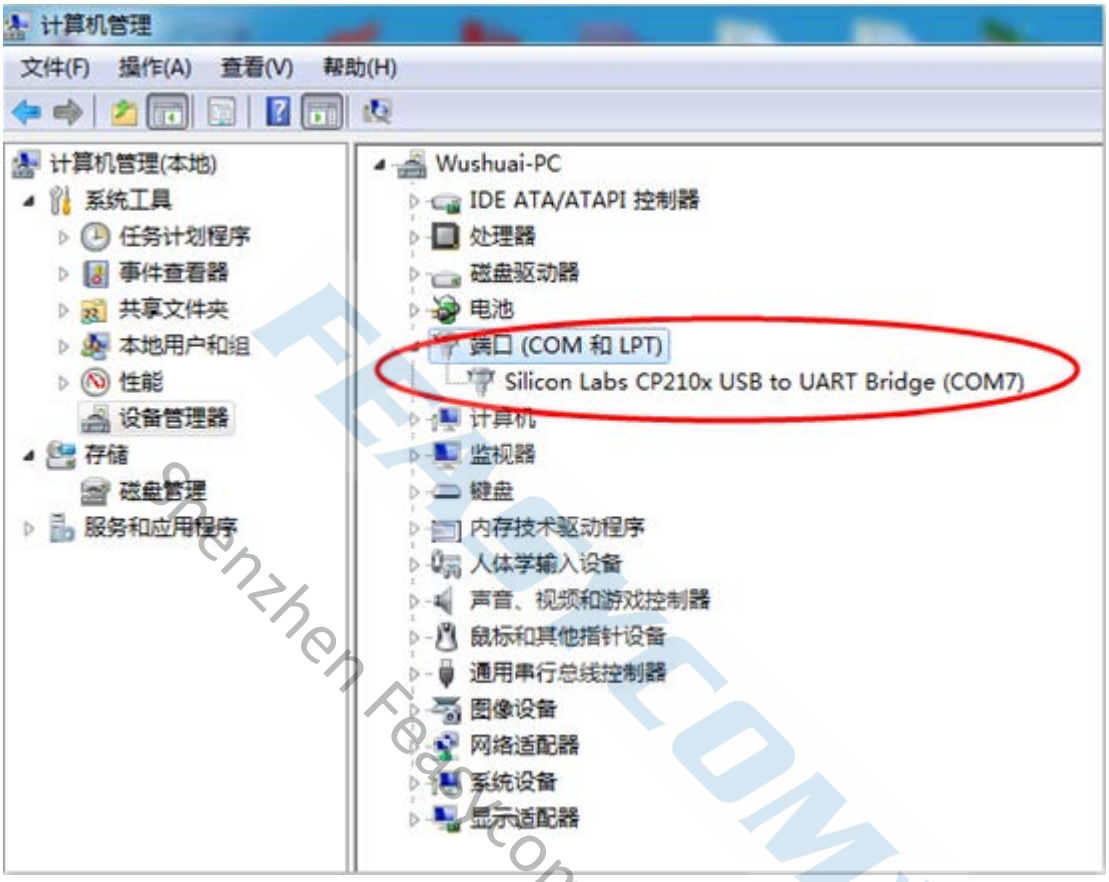
3. Driver Installation and Serial Assistant

3.1 Win7 need to install a serial driver（Win10/11 may no need），which can be viewed in the computer device manager（You can install a serial port tool by a third party and plug in USB to identify it. Or contact our Sales Team）



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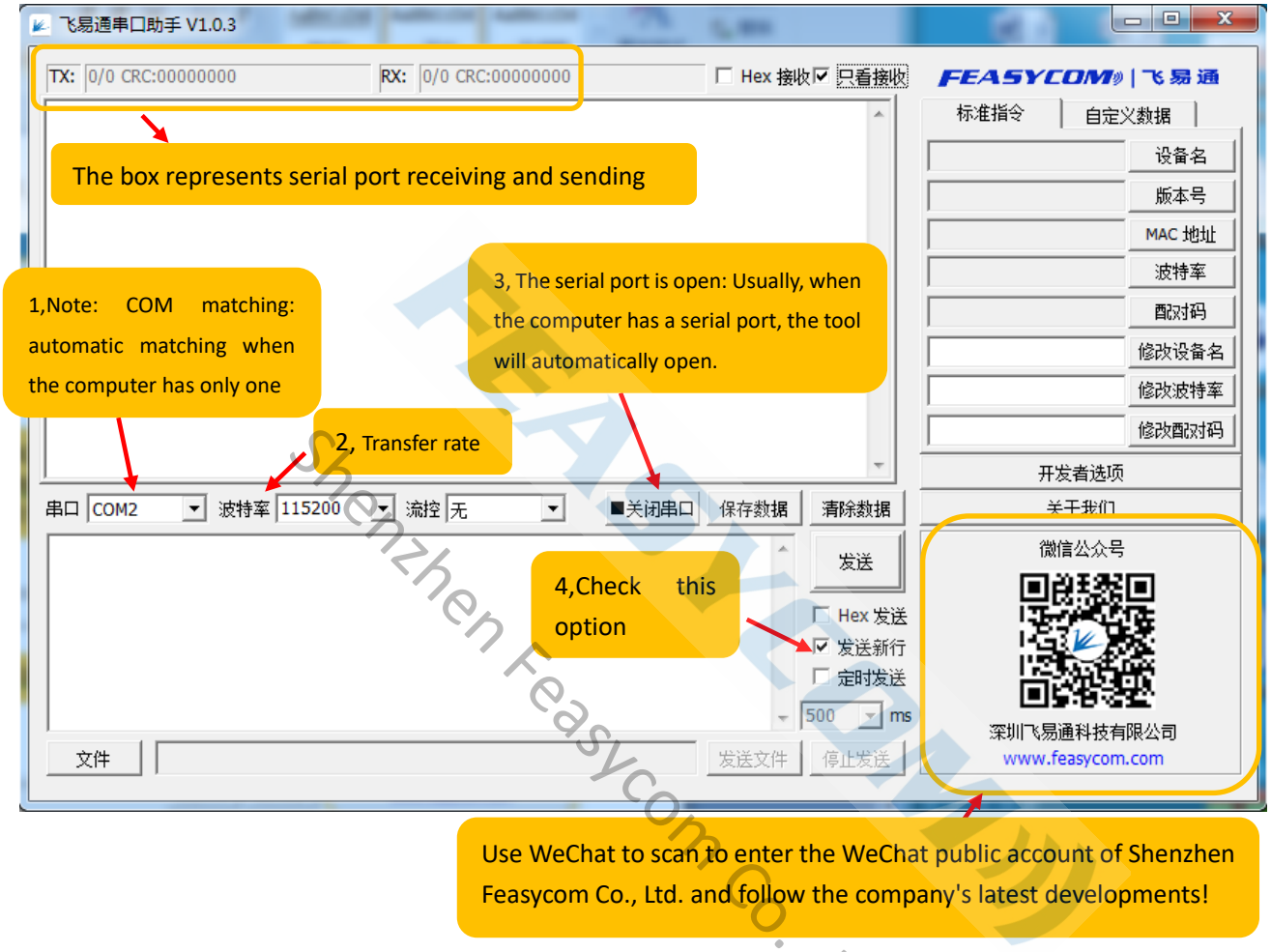
3.2 Installation and Use of Serial Assistant

1， Double Click 飞易通串口助手 .exe to open it

2， The interface description is as follows



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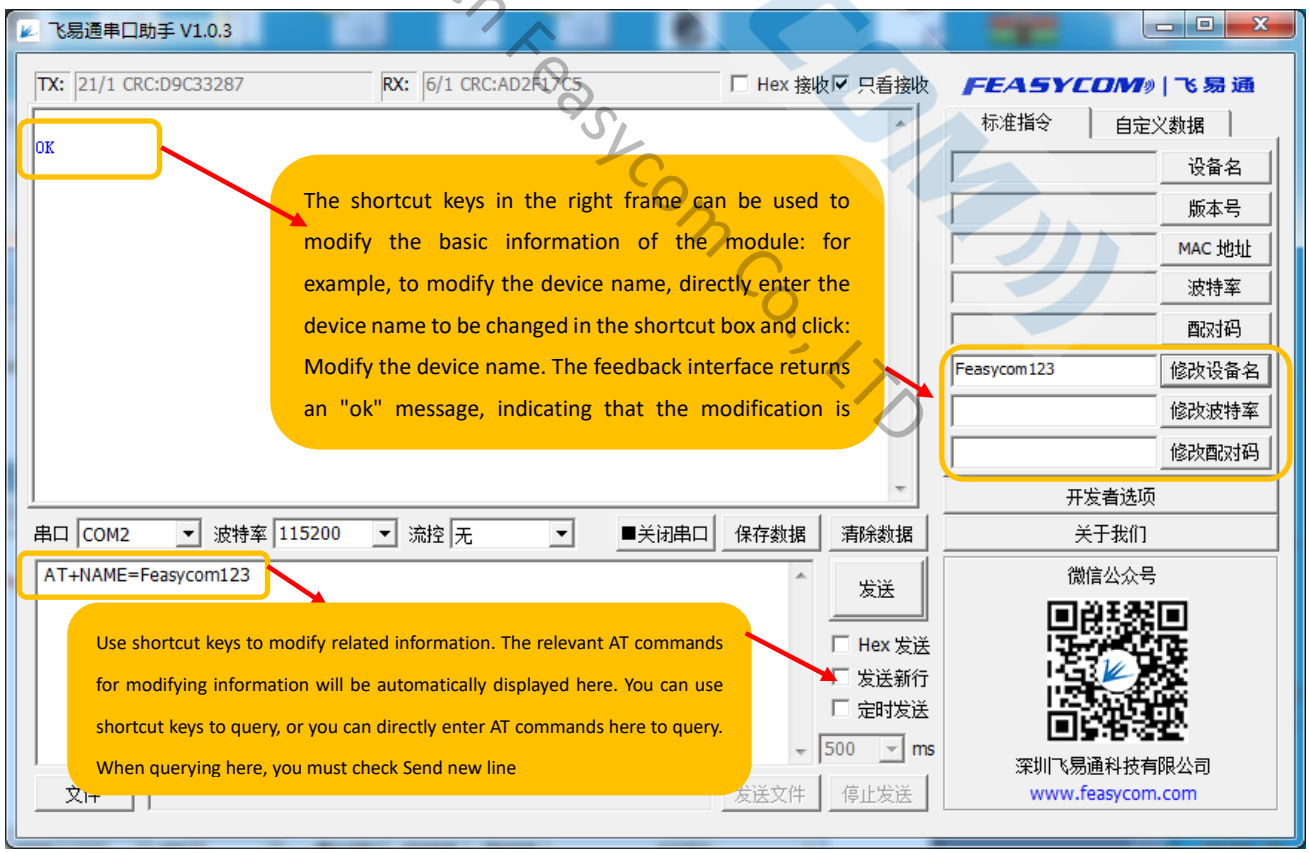

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