

1.K210 and microbit communication

1.1 Experimental premises

This tutorial uses microbit V2.0, and K210 requires running the program in * * K210-Al (microbit) * * to start the experiment

Microbit * 1

Eyu clip * 3

Several DuPont Lines

K210 perspective module * 1 (requires SD card (with Al model inside) and camera)

USB to TTL module * 1

Import k210Al library: https://github.com/YahboomTechnology/K210-Module

1.2 Experimental wiring

microbit	USB to TTL module
P1	RXD
GND	GND

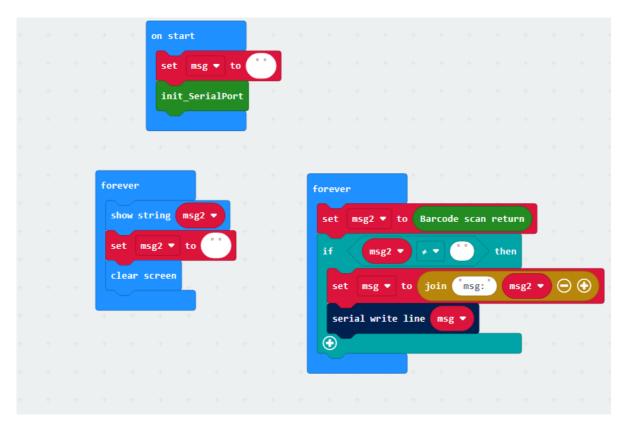
microbit	k210
P2	TXD
GND	GND

Wiring as shown in the diagram:





1.3 Main code analysis



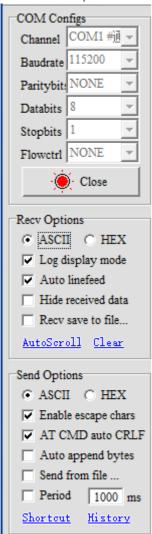
From the code, simply configure the serial port and call the relevant serial port and K210 building blocks for data acquisition

• msg:Identify the content of barcodes

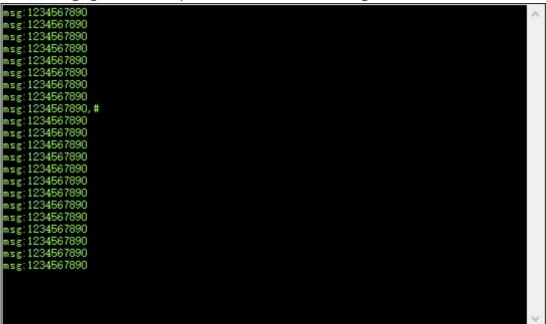
1.4 experimental phenomena

1. After connecting the cable, the K210 perspective module can be run offline K210 offline operation method

2. Set the serial port assistant to the interface shown in the figure



- 3. Download the hex program of this tutorial into microbit
- 4. After starting recognition, you can see that the serial assistant prints something and the microbit screen also scrolls to display the received information. The experimental results in the following figure show the phenomenon of barcode recognition



This experiment displays the identified content of barcode recognition

1.5 Microbit calls the building blocks to parse the results of K210, and the roles of each block

Website of K210 library: https://github.com/YahboomTechnology/K210-Module

