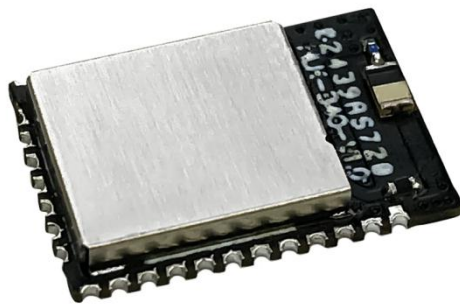




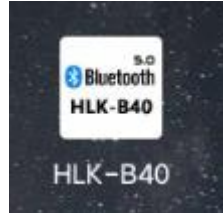
Shenzhen Hi-Link Electronic Co., Ltd.

HLK-B40
Bluetooth Transparent Transmission Module
Mobile phone APP
User Manual



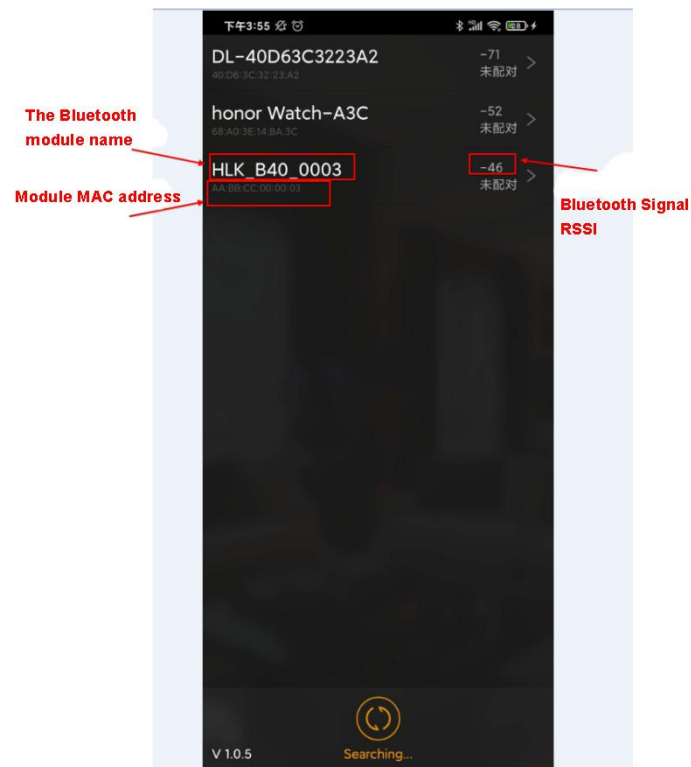
1 Install APP

Currently only Android APP is supported. Download the <HLK-B40 test Demo APP.apk> installation package to the phone, and click on the phone to install it, and follow the application icon as shown below:



2 Open the APP, find and connect the B40 module

Open the B40 test Demo APP, the main interface and description of the APP are as follows:



The APP will scan the surrounding Bluetooth devices and display them in a list. Each scanned Bluetooth device will display information such as Bluetooth name, MAC address and RSSI (signal strength).

Click the Bluetooth name corresponding to the B40 module, and the APP will automatically connect to the module and open the transparent transmission test page.

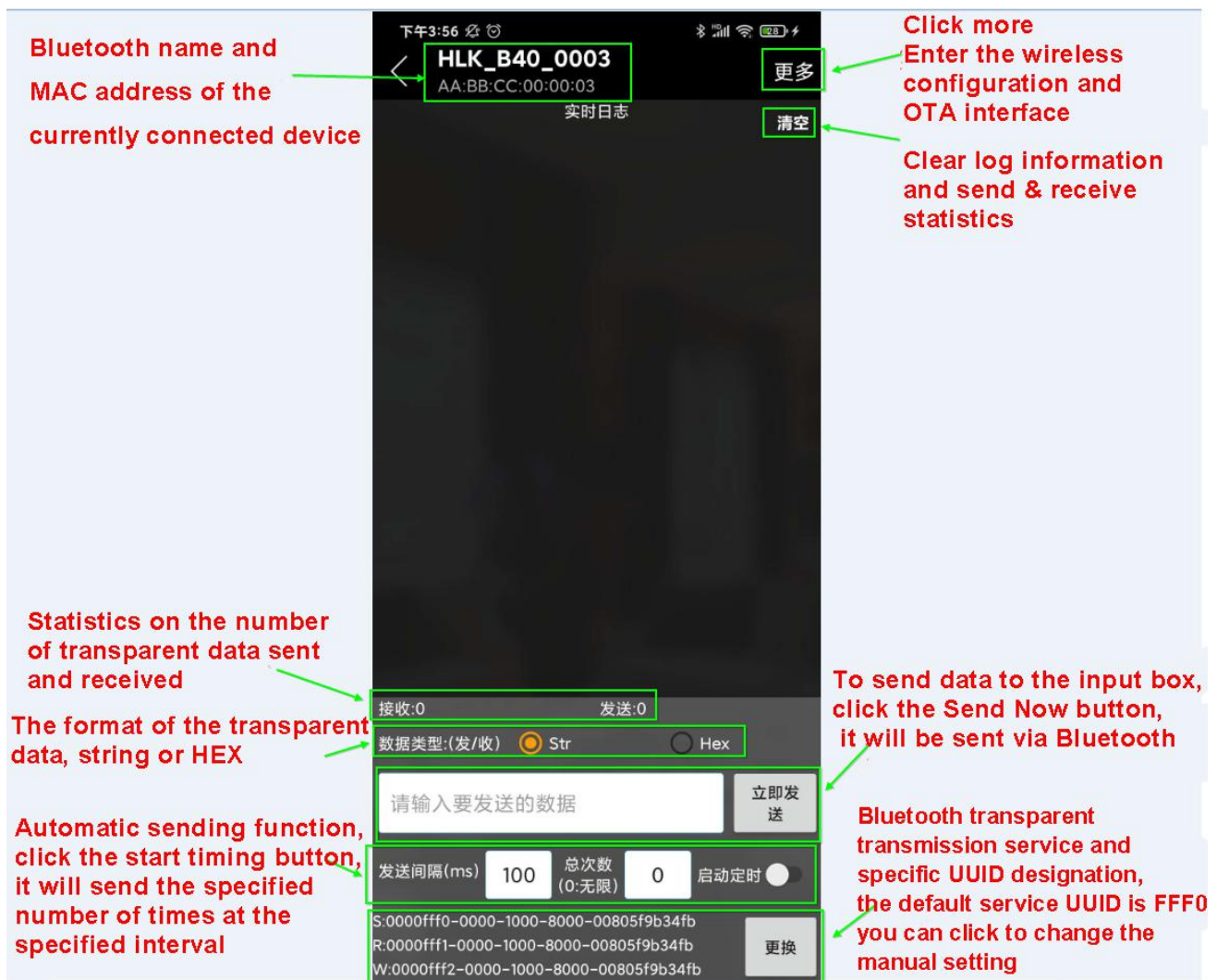
3 Transparent transmission test

After entering the transparent transmission test page, you can receive the data received and transparently transmitted by the serial port of the B40 module, or send data to the B40 module

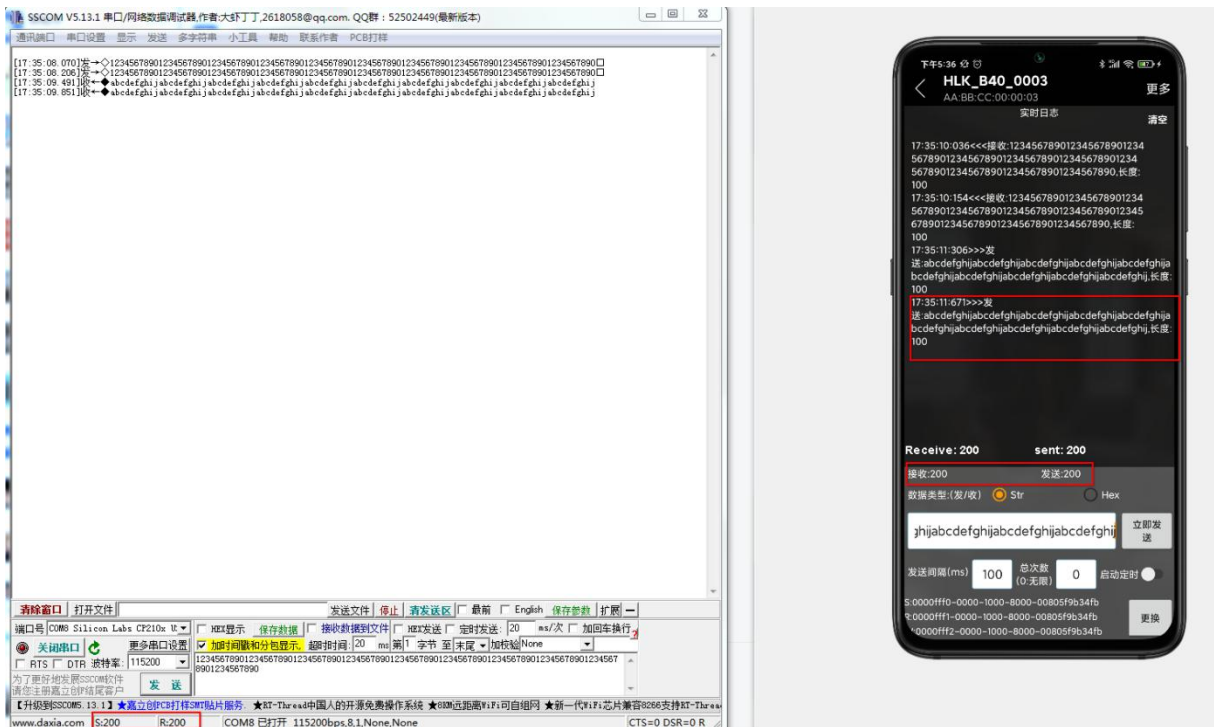
(After the B40 module receives it, it will be transparently transmitted to the module serial port).

Support timing automatic sending function, can send data for a specified number of times continuously at specified intervals.

The UUID and characteristics of the Bluetooth transparent transmission service used by the APP by default are consistent with the default values of the B40 module, and it can be directly connected by default. If the module modifies the service and characteristic UUID, you need to click the <Replace> button in the APP to manually select the corresponding UUID. **The UUID used by the APP and the module needs to be same to correctly transmit the data.**



The measured results of APP transparently transmitting data through Bluetooth and module serial port are as follows:

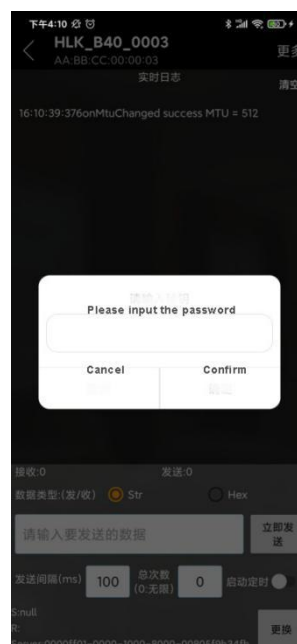


4 View and configure module parameters

Click the <More> button in the transparent transmission test page of the APP to enter the parameter configuration page.

Every time you open the parameter configuration page, you need to pass password verification before you can access it to prevent arbitrary and illegal repair of module parameters. The verify password default value is HiLink, which can be modified by AT commands.

The APP will automatically remember the password of the last successful authentication and will automatically verify the next time you open this page.

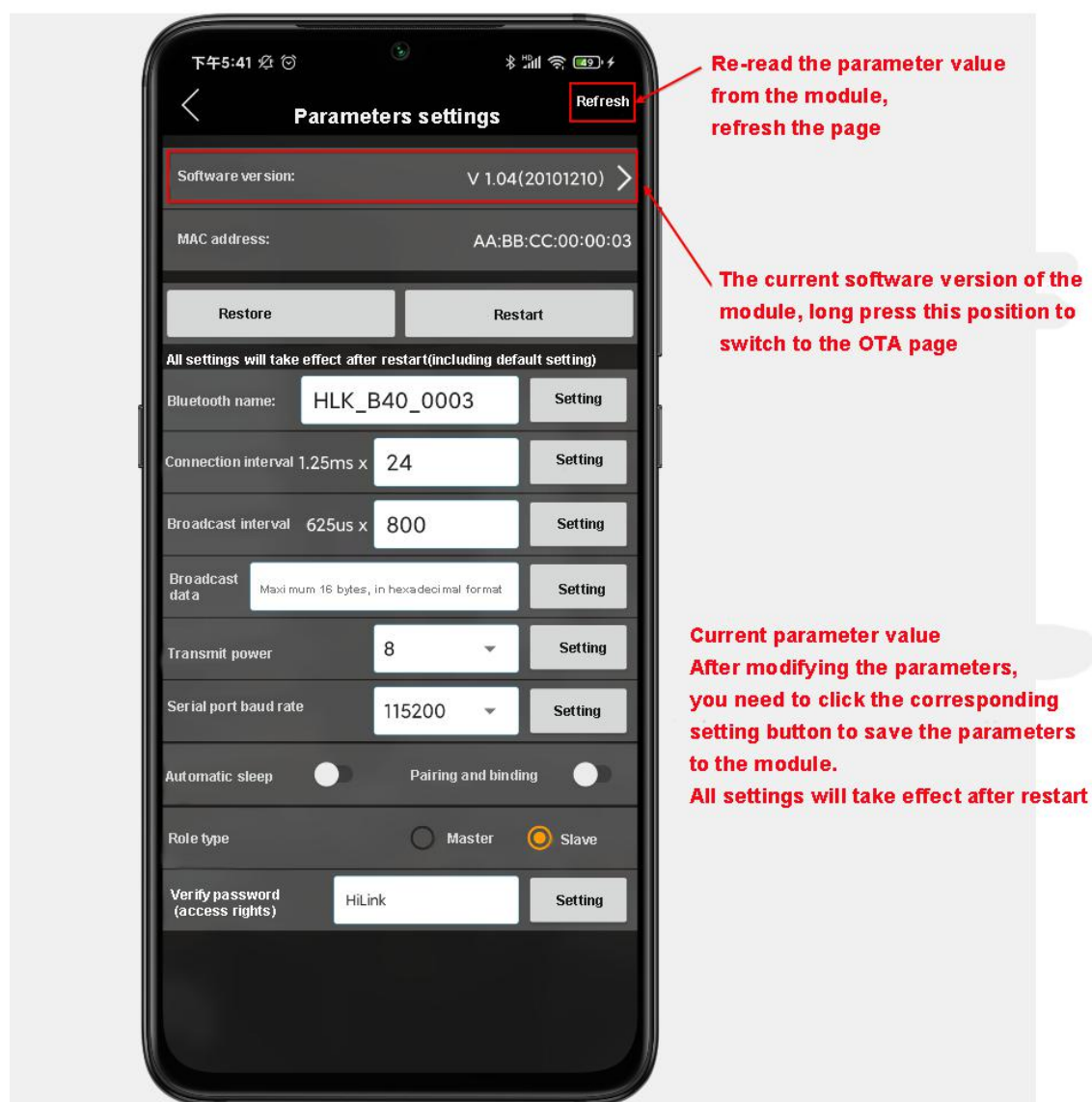


The effect of the parameter configuration page is shown below.

The software version number, MAC address and current parameter value of the module can be displayed.

The parameter value can be modified, after modification, click the corresponding setting to save it in the module.

All configurations will take effect after restarting.



5 OTA Function

In the parameter configuration page, long press the software version position to enter the OTA upgrade page.

Incorrect OTA upgrade files and operations may damage the module firmware and fail to start. Please operate with caution

Before upgrading, please ensure to download the upgrading bin file of the correct firmware to be upgraded to the phone.

Click <Please select the bin file>, select the bin file to be upgraded in the pop-up page, and then click to “start to upgrade”, the APP will start to check and upgrade the firmware, the APP will have a log prompt during the upgrade, and it will be noted after the upgrade is completed.

The upgrade process takes about 10 to 30 seconds.

