# Software Instruction

## ➢ MASTER

**Note**: $\backslash r \backslash n$ is necessary and can't contain NULL CHARACTER when send instructions, the value of \r\n is 0x0D 0x0A in Hex

### SETTING：

1. Set work mode
\r\n+STWMOD=1\r\n          Set work mode Master

2. Set baud rate
\r\n+STBD=38400\r\n          Set baud rate 38400
Support baud rate:9600,19200,38400,57600,115200,230400,460800

3. Set device name
\r\n+STNA=SeeedBTMaster\r\n          Set device name "SeeedBTMaster"

4. Power on, automatic connect the last device
\r\n+STAUTO=0\r\n          Close the function
\r\n+STAUTO=1\r\n          Open the function

5. Permit pair the device
\r\n+STOAUT=0\r\n          Close the function
\r\n+STOAUT=1\r\n          Open the function

6. Set PINCODE
\r\n+STPIN =0000\r\n          Set PINCODE "0000"

7. Delete PINCODE
\r\n+DLPIN\r\n          Delete PINCODE

8. Open echo
\r\n+STECHO=1\r\n          Open echo
\r\n+STECHO=0\r\n          Close echo

9. Read local ADDRESS CODE
\r\n+RTADDR\r\n          Return address of the device

10. Auto-reconnecting when master device is beyond the valid range(slave device will auto-reconnect in 30 min when it is beyond the valid range)

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\r\n+LOSSRECONN=0\r\n       Forbidden auto-reconnecting

\r\n+LOSSRECONN=0\r\n       Permit auto-reconnecting

## NORMAL OPERATION:

### 1. Inquire

\r\n+INQ=0\r\n          Stop    inquiring

\r\n+INQ=1\r\n          Begin/Restart    inquiring

### 2. Bluetooth module returns inquiring result

\r\n+RTINQ=aa,bb,cc,dd,ee,ff;name\r\n    A  serial  Bluetooth  device  with  the  address "aa,bb,cc,dd,e,ff" and the name "name" is inquired

### 3. Connect device

\r\n+CONN=aa,bb,cc,dd,ee,ff\r\n       Connect to "aa,bb,cc,dd,ee,ff" device

### 4. BT request input PINCODE

\r\n+INPIN\r\n

### 5. Input PINCODE

\r\n+RTPIN=code\r\n

Exemple：\r\n+RTPIN=0000\r\n            Input PINCODE   ”0000”

### 6. Disconnection

Put PIO0 to high ,disconnect current device

### 7.Return status (Not command)

\r\n+RTSTA:xx\r\n

XX     Status:

0,     Initializing

1,     Ready

2,     Inquiring

3,     Connecting

4,     Connected

## ➢ SLAVER

**Note**: \r\n is necessary and can't contain NULL CHARACTER when send command, the value of \r\n is 0x0D 0x0A in Hex

## SETTING：

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## 1. Set work mode

\r\n+STWMOD=0\r\n                Set work mode Slaver

## 2. Set baud rate

\r\n+STBD=38400r\n                Set baud rate 38400

Support baud rate:9600,19200,38400,57600,115200,230400,460800

## 3. Set device name

\r\n+STNA=SeeedBTSlaver\r\n                Set device name"SeeedBTSlaver"

## 4. Power on, automatic connect the last device

\r\n+STAUTO=0\r\n                Close the function

\r\n+STAUTO=1\r\n                Open the function

## 5. Permit pair the device

\r\n+STOAUT=0\r\n                Close the function

\r\n+STOAUT=1\r\n                Open the function

## 6. Set PINCODE

\r\n+STPIN =0000\r\n                Set PINCODE "0000"

## 11. Delete PINCODE

\r\n+DLPIN\r\n                Delete PINCODE

## 12. Open echo

\r\n+STECHO=1\r\n                Open echo

\r\n+STECHO=0\r\n                Close echo

## 13. Read local ADDRESS CODE

\r\n+RTADDR\r\n                Return address of the device


## NORMAL OPERATION:

## 1. Inquire

\r\n+INQ=0\r\n                Disable been inquired

\r\n+INQ=1\r\n                Enable been inquired

## 2. Connect device

\r\n+CONN=aa,bb,cc,dd,ee,ff\r\n                Connect to "aa,bb,cc,dd,ee,ff" device

## 3. BT request input PINCODE

\r\n+INPIN\r\n

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## 4. Input PINCODE

\r\n+RTPIN=code\r\n

Exemple：\r\n+RTPIN=0000\r\n                    Input PINCODE  "0000"

## 5. Disconnection

Put PIO0 to high ,disconnect current device

## 6.Return status (Not command)

\r\n+RTSTA:xx\r\n

XX     Status:

0,     Initializing

1,     Ready

2,     Inquiring

3,     Connecting

4,     Connected

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