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## Software Instruction

### ➤ MASTER

**Note:** \r\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+SETCHO\r\n                      Open 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)

\r\n+LOSSRECONN=0\r\n                      Forbidden auto-reconnecting  
\r\n+LOSSRECONN=1\r\n                      Permit auto-reconnecting

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## **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:**

### 1. Set work mode

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

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## 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=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+SETCHO\r\n                   Open 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

### 4. Input PINCODE

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

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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