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+STW MOD=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
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,ee,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
2. Set baud rate
  \texttt{\textbackslash r\textbackslash n+STBD=38400r\textbackslash n}  
  Set baud rate 38400

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

3. Set device name
  \texttt{\textbackslash r\textbackslash n+STNA=SeeedBTSlaverr\textbackslash n}  
  Set device name “SeeedBTSlaver”

4. Power on, automatic connect the last device
  \texttt{\textbackslash r\textbackslash n+STAUTO=0r\textbackslash n}  
  Close the function

  \texttt{\textbackslash r\textbackslash n+STAUTO=1r\textbackslash n}  
  Open the function

5. Permit pair the device
  \texttt{\textbackslash r\textbackslash n+STOAUT=0r\textbackslash n}  
  Close the function

  \texttt{\textbackslash r\textbackslash n+STOAUT=1r\textbackslash n}  
  Open the function

6. Set PINCODE
  \texttt{\textbackslash r\textbackslash n+STPIN=0000r\textbackslash n}  
  Set PINCODE “0000”

11. Delete PINCODE
  \texttt{\textbackslash r\textbackslash n+DLPINr\textbackslash n}  
  Delete PINCODE

12. Open echo
  \texttt{\textbackslash r\textbackslash n+SETCHOr\textbackslash n}  
  Open echo

13. Read local ADDRESS CODE
  \texttt{\textbackslash r\textbackslash n+RTADDRr\textbackslash n}  
  Return address of the device

**NORMAL OPERATION:**

1. Inquire

  \texttt{\textbackslash r\textbackslash n+INQ=0r\textbackslash n}  
  Disable been inquired

  \texttt{\textbackslash r\textbackslash n+INQ=1r\textbackslash n}  
  Enable been inquired

2. Connect device
  \texttt{\textbackslash r\textbackslash n+CONN=aa,bb,cc,dd,ee,ffr\textbackslash n}  
  Connect to "aa,bb,cc,dd,ee,ff" device

3. BT request input PINCODE
  \texttt{\textbackslash r\textbackslash n+INPINr\textbackslash n}

4. Input PINCODE
  \texttt{\textbackslash r\textbackslash n+RTPIN=code\textbackslash r\textbackslash 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