

## AT commands of ElecFreaks BLEduino and Ble Adapter

Note: The default Baud rate is 9600 from 6th-11-2015, and the previous version was 115200, expect BLEduino.

### 1. Test

Command	Response	Parameter
AT	OK	NONE

### 2. Get version

Command	Response	Parameter
AT+VERSION	+VERSION=V*.*	NONE

Example:

Command: AT+VERSION

Response: +VERSION=V2.0

### 3. Get help

Command	Response	Parameter						
AT+HELP	<table border="0"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1. AT</td> <td>Check if the command terminal work normally</td> </tr> <tr> <td>...</td> <td></td> </tr> </tbody> </table>	Command	Description	1. AT	Check if the command terminal work normally	...		NONE
Command	Description							
1. AT	Check if the command terminal work normally							
...								

### 4. Get/set name

Command	Response	Parameter
AT+NAME	+NAME=<name>	<name> ?

Example:

1.

Command: AT+NAME

Response: +NAME=BLE-Electfreaks

2.

Command: AT+NAME BLE-Adapter

Response: +NAME=BLE-Adapter, OK, please restart

3.

Command: AT+NAME ?

Response: AT+NAME                    Get device name.

          AT+NAME <?>            Get Usage.

          AT+NAME <name>        Set device name.

### 5. Get/set baud rate

Command	Response	Parameter
AT+BAUD	+BAUD=<baud>	9600 19200 38400

		57600 115200 ?
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Example:

1.

Command: AT+BAUD

Response: +BAUD=115200

2.

Command: AT+BAUD 115200

Response: +BAUD=115200, OK, please restart.

3.

Command: AT+BAUD ?

Response: AT+BAUD                   Get current baud rate.

          AT+BAUD <?>            Get Usage.

          AT+BAUD <baud>        Set baud rate to <b>.

#### 6. Set default settings

Command	Response	Parameter
AT+RENEW	OK, please restart.	NONE

#### 7. Get/set role(Central or Peripheral)

Command	Response	Parameter
AT+ROLE	+ROLE=<role>	0: Peripheral 1: Central ?

Example:

1.

Command: AT+ROLE

Response: +ROLE=Peripheral

2.

Command: AT+ROLE 1

Response: +ROLE=Central, OK, please restart.

3.

Command: AT+ROLE ?

Response: AT+ROLE            Get device role.

          AT+ROLE <?>        Get Usage.

          AT+ROLE <n>        Set device role.1:central,0:peripheral.

#### 8. Scan device

Command	Response	Parameter
AT+SCAN	Scanning...	NONE

Example:

Command: AT+SCAN

Response: Scanning...

No.n devName= Addr=01:02:03:04:05:06 rssi=-70

#### 9. Connect device

Command	Response	Parameter
AT+CON	Connecting...	<n> ?

Example:

1.

Command: AT+CON 1

Response: Connecting...

Connect ok!

Connected addr=01:02:03:04:05:06

2.

Command: AT+CON ?

Response: AT+CON <n> Connect to n-th device from scan list.

AT+CON <?> Get Usage.

#### 10. Get mac address

Command	Response	Parameter
AT+MYMAC	+MYMAC=01:02:03:04:05:06	NONE

#### 11. Get/set transmit mode

Because of cc2540 has 2 port(usb port, uart port), so you need select a port for data transmit, this transmit mode is valid only connected, otherwise data is from usb port to uart port.

Command	Response	Parameter
AT+TRANSMODE	+TRANSMODE=<n>	1.USB<->Central <=> App; USB<->Peripheral <=> App 2.USB<->Central <=> App; UART<->Peripheral <=> App 3.UART<->Central <=> App; USB<->Peripheral <=> App 4.UART<->Central <=> App; UART<->Peripheral <=> App

Example:

1.

Command: AT+TRANSMODE

Response: +TRANSMODE=1.USB<->Central <=> App;USB<->Peripheral <=> App

2.

Command: AT+TRANSMODE 1

Response: +TRANSMODE=1.USB<->Central <=> App;USB<->Peripheral <=> App, OK.

3.

Command: AT+TRANSMODE ?

Response: AT+TRANSMODE Get transmitMode num.

AT+TRANSMODE ? Get Usage.

AT+TRANSMODE <n> Set device transmitMode.

- 1.USB<->Central <=> App;USB<->Peripheral <=> App
- 2.USB<->Central <=> App;UART<->Peripheral <=> App
- 3.UART<->Central <=> App;USB<->Peripheral <=> App
- 4.UART<->Central <=> App;UART<->Peripheral <=> App