

SH-A11 iBeacon/Eddystone Dongle

AT Command

The way to the AT command mode: supply power to the dongle, it will enter to the AT mode if it needn't pair. The interval of command is about 1 second.

Default parameter: Baud rate: **115200**N81

AT Command Format:

AT+ (CMD) {=PARA1 }{,PARA2 ,PARA3...} <CR><LF>

Description:

Command always start with AT+ and end with <CR><LF>.

<CR> means "carriage return" and corresponds to the hexadecimal value 0x0D.

<LF> means "line feed" and corresponds to the hexadecimal value 0x0A.

Parameter between [] may not exist.

Parameter always start with =if exist.

Example :

AT+NAME<CR><LF> :Query current device's name.

AT+PIN=8888 <CR><LF> :Modify current device's pin code to '8888'.

Command 1 , Testing Connection Commands

Command	Answer	Parameter
AT	OK	None

Command 2 , Query/Set —— Device's Name

Command	Answer	Parameter
Query: AT+NAME	+NAME=[para1]	Para1: the name of device
Set: AT+NAME= [para1],	OK	Default: SH-A11

Example: Send: AT+NAME Query current device's name

Return: +NAME=SH-A11

OK

Modify device's name to "ABC"

Send: AT+NAME=ABC

Return : +NAME=ABC

OK

Command 3, Query Bluetooth device MAC address

Command	Answer	Parameter
AT+ADDR	+ADDR=[MAC]	MAC: Bluetooth address

Command 4 , Query/Set —— Baud Rate

Command	Answer	Parameter
Query: AT+BAUD	+BAUD=[para1]	Para1: 1200, 2400,4800, 9600,19200,38400, 57600,115200,230400, 460800,921600
Set: AT+BAUD =[para1]	+BAUD=[para1]	

Query device baudrate

Send : AT+BAUD

Return: +BAUD=9600

OK

Modify device baudrate

Send : AT+BAUD=115200

Return: +BAUD=115200

Command 5 , Query/Set ——PIN Code

Command	Answer	Parameter
Query: AT+PIN	+PIN=[para1]	Para1 is PIN Code:

Set: AT+PIN= [para1]		Default: 0000
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e.g.

Query Pin Code

Send: AT+PIN

Return: +PIN=0000

Setup Pin Code to "1234"

Send: AT+PIN=1234

Return : +PIN=1234

Command 6, Reboot

Command	Answer	Parameter
AT+REBOOT	OK	

Command 7, Enable Eddystone

Command	Answer	Parameter
Query: AT+EDSEN	+EDSEN=[enable]	enable
Set: AT+EDSEN= [enable]	+EDSEN=[enable]	1: enable Eddystone 0: disable Eddystone

e.g.

AT+EDSEN=1 enable Eddystone

AT+EDSEN=0 disable Eddystone

Command 8 Config Eddystone Data

Command	Answer	Parameter
Query: AT+EDDYSTONE	+EDDYSTONE={datatype},{data}	datatype :

Set: AT+EDDYSTONE = {datatype},{data}		00: UUID data 10: URL string data: URL or UUID If datatype is "10" data will be a URL string
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e.g.

Setting URL String to "http://www.google.com"

Send: AT+EDDYSTONE=10,http://www.google.com

Return: +EDDYSTONE=10,http://www.google.com

Setting UUID :

Send:AT+EDDYSTONE=00,000102030405060708091122334455660000

Return: +EDDYSTONE=00,000102030405060708091122334455660000

Command 9 Config RSSI value when the distance is 0 meters

Command	Answer	Parameter
Query: AT+EDSPower	+EDSPower={power}	power: 0x00~0xFF
Set: AT+EDSPower={power}		RSSI value when the distance is 0 meters

e.g.

AT+EDSPower=D1

Command 10, Enable iBeacon

Command	Answer	Parameter
Query: AT+IBCEN	+IBCEN ={enable}	enable:

Set: AT+IBCEN={enable}		1: enable iBeacon 0: disable iBeacon
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e.g.

Send: AT+IBCEN=1 Enable iBeacon

Send: AT+IBCEN=0 disable iBeacon

Command 11, Config iBeacon UUID, Major, Minor

Command	Answer	Parameter
Query: AT+IBEACON	+IBEACON={UUID}, {Major}, {Minor}	UUID: 128 bit
AT+IBEACON={UUID}, {Major}, {Minor}		Major: 16 bit (Decimal number) Minor :16bit (Decimal number)

e.g.

Setting uuid, major, minor

Send: AT+IBEACON=FDA50693A4E24FB1AFCFC6EB07647825,10265,25058

Return: +IBEACON=FDA50693A4E24FB1AFCFC6EB07647825,10265,25058

Command 12 Config RSSI value when the distance is 1 meters

Command	Answer	Parameter
Query: AT+IBCPOWR	+IBCPOWR={power}	power: 0x00~0xFF
Set: AT+IBCPOWR={power}		RSSI value when the distance is 1 meters

e.g.

AT+IBCPOWR=E1

Command 13 Config Advertising interval

Command	Answer	Parameter
Query: AT+ADVINT	+ADVINT={interval_ms}	interval_ms:
Set: AT+ADVINT={interval_ms}		milliseconds

e.g.

Set the **Advertising** interval to 500 ms

Send: AT+ADVINT=500

Command 14 Enable Deployment mode

Command	Answer	Parameter
Query: AT+BWMODE	+BWMODE {enable}	enable:
Set: AT+BWMODE={enable}		1: enable deployment mode 0: disable deployment mode

e.g.

AT+BWMODE=1 enable deployment mode

When the deployment mode is enabled, the Bluetooth dongle can not be connected, after 1 minute of power on. it will be more stable and safe.

Command 15, Query Firmware version

Command	Answer	Parameter
AT+VER	+VER=[Version_no]	

Any question ,please contact us: dsdtech@163.com