Bluetooth Dual Mode SPP/HID Module AT Command Specification

Module Model

WBTDS01 - BT4.0+BLE/BT3.0/BT2.1+EDR

1. Functional description

Overview

The WBTDS01 is a highly integrated BT4.0 (BLE), BT3.0, BT 2.1 + EDR module with embedding HID, and SPP profile. It's easy to develop your product via UART interface to communicate with our module by using AT command format.

AT Commands Introduction

- ASCII format
- <CR>: ASCII code 0x0d
- <LF> :ASCII code 0x0a

AT Commands Supporting List

Input Command	Definition
AT+VER	Read Bluetooth module firmware revision.
AT+DNAME	Set Bluetooth device name.
AT+URATE	Set Bluetooth device host interface baud rate.
AT+AUTOCON	Bluetooth enters automatically pairing mode.
AT+PROFILE	Set Bluetooth profiles.
AT+IOSKB	Enable or disable iOS software keyboard.
AT+HIDKEY	Send HID key.
Output Command	Definition
+CON	When Bluetooth makes connection
+DISCON	When Bluetooth makes disconnection

AT Commands Return Code List

Return Value	Definition
OK<CR><LF>	Indicates success.
0<CR><LF>	Indicates hardware error.
1<CR><LF>	Indicates no AT command support.

2. AT commands specification

- ## AT+VER

This function reads Bluetooth module firmware revision.

Syntax:

AT+VER=?<CR><LF>

Return Value:

VER02A <CR><LF>

- ## AT+DNAME

This function sets Bluetooth device name.

Syntax:

AT+DNAME=WBTDS01<CR><LF>

Return Value:

Return OK<CR><LF> indicates success.

- ## AT+URATE

This function sets Bluetooth device host UART interface baud rate.

Syntax:

AT+URATE=115200<CR><LF> (default)

Return Value:

Return OK<CR><LF> indicates success.

- ## AT+AUTOCON

This function Let Bluetooth module enters automatically pairing mode.

Syntax:

AT+AUTOCON=1<CR><LF> - BT will retry to pair previous connection device. (default)
AT+AUTOCON=0<CR><LF> - BT will not retry to pair previous connection device.

Return Value:

Return OK<CR><LF> indicates success.

AT+PROFILE

This function sets Bluetooth profiles.

Syntax:

AT+PROFILE=Bit[7:0]<CR><LF> (Bit2: HID switch, Bit1: SPP switch, Bit0: BLE switch)

Return Value:

Return OK<CR><LF> indicates success.

AT+IOSKB

This function enables or disables iOS software keyboard.

Syntax:

AT+IOSKB=1<CR><LF>

Return Value:

Return OK<CR><LF> indicates success.

AT+HIDKEY

This function sends HID key.

Syntax:

AT+HIDKEY=AT+HIDKEY=[Byte 1 - Modifier definition key] + [Byte 2 - HID scan code]
[Byte 1 - Modifier definition key] means modifier status,
Bit7: RightGUI,
Bit6: RightAlt,
Bit5: RightShift,
Bit4: RightControl,
Bit3: LeftGUI,
Bit2: LeftAlt,
Bit1: LeftShift,
Bit0:LeftControl
[Byte 2 - HID scan code] means HID scan code

Return Value:

Return OK<CR><LF> indicates success.