JDY-10 v2.4

Description:

Model: JDY-10 Bluetooth 4.0 slave module
Kernel: M0
Communication interface: serial port
Working voltage: 1.9-3.6V
Communication distance: 100 meters
Working current: 90ua
Suspen mode: 14 uA
Module is: Bluetooth 4.0 slave
JDY-10 transparent transmission module is based on Bluetooth 4.0 protocol standard, working frequency range is 2.4GHZ range, modulation mode is GFSK, maximum transmission power is 8db, maximum transmission distance is 80 meters, low power consumption, small size, strong signal, data transmission Stable and other characteristics.

Features:

1: Support Android, IOS mobile phone data penetration
2: Support low power consumption (standby current can reach several uA)
3: Support GPIO and UART peripheral interface
4: Support AT command operation
5: Can be certified by FCC/CE and other standards

Product application range:

1: Bluetooth LED lighting
2: Motor adjustment and other products
3: Anti-lost alarm and other products
4: Sports Health Care
5: Small appliances
6: Automotive Electronics

Technical specifications:

Type		Specifications
Working voltage		1.9 – 3.6V
Operating temperature		-40 - 85°C
Maximum transmit power		+8dbm
Antenna		PCB onboard antenna
Receiving sensitivity		-92dbm
Average current	Wake mode	90uA
	Suspen mode	14 uA
	Deep Sleep mode	1uA

Factory default configuration:

Service UUID: FFE0
Feature UUID: FFE1

Serial port baud rate: 115200bps

AT instruction set:

Users can communicate with the Bluetooth chip through the serial port. The serial port uses Tx, Rx two signal lines, and the baud rate is supported.
Hold 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200. The default baud rate of the serial port is 115200bps.

Instruction set details:

(Note: You must enter and enter the line when you send the AT command. The AT command can only take effect when the module is not connected. Once the blue is enabled.
When the tooth module is connected to the device, the Bluetooth module enters the data transparent transmission mode)

Detailed instructions:

(AT commands are case sensitive and end with carriage return, newline characters: rn)

1. Get the version number:

command	response	parameter
AT+VER	+	Param: version Default: +JDY-10-V1.8

2. Get the Bluetooth MA C address:

command	response	parameter
AT+MA C	+MA C:	Param: MA C address

3. Set the Bluetooth name:

command	response	parameter
AT+NAME	OK	Param: Bluetooth name Default name: JDY-10 Up to 18 bytes

4. Set / query - transmit power:

command	response	parameter
AT+POWE AT+POWE	OK +POWE:	Param: (0-5) 0: 8db 1: 5db 2: 0db 3:-5db 4: -10db 5: -13db

5. Set / query - serial port baud rate:

command	response	parameter
AT+BAUD	OK	Param: (0-7)
AT+BAUD	+BAUD:	0: 115200 bps 1: 57600 bps 2: 38400 bps

		3: 19200 bps 4: 14400 bps 5: 9600 bps 6: 4800 bps 7: 2400 bps

6. Set / query - broadcast interval:

command	response	Parameter
AT+ADVINT	OK	Param:(0-6) 0: 100ms 1: 100ms 2: 250ms 3: 500ms 4: 1600ms 5: 3200ms 6: 4800ms
AT+ADVINT	+ADVINT:	

Package included:

1 x JDY-10 Bluetooth 4.0 Module

TLSR8266
F512ET32
CK1708.
CHC50M.1

VCC
GND
PWM3\A1
A5
D5
D4
RX/C7
TX/C6

RESET
E5
C6
E7
F0
F1
ISP
PWM2/C4
PWM1/C2
PC1
PWM0/C0
E6
B5
B0