

JDY-30 SPP Bluetooth Module

Features

- 1: Support Bluetooth SPP serial port protocol
- 2: Built-in PCB antenna
- 3: Support UART interface
- 4: Bluetooth Class 2
- 5: Data transmission is faster than BLE Bluetooth, and can reach tens of K per second or higher

Product application range

- 1: POS machine
- 2: Bluetooth printer
- 3: Bluetooth toy
- 4: Bluetooth high speed data transmission product application
- 5: Small appliances
- 6: Automotive Electronics

Type	Specification	
Operating Voltage	2.2 - 4.2V	
Operating temperature	-40 - 85° C	
Antenna	PCB onboard antenna	
Average current	Wake mode	19MA
	Sleep mode	40uA

Pin function description:

Pin		Function	Description
1	UART-TX	Serial output	Serial output, level is TTL level
2	UART-RX	Serial input	Serial input, level is TTL level
3	NC		
4	NC		
5	NC		
6	NC		
7	NC		
8	NC		
9	NC		
10	NC		
11	RESET	Reset	Reset pin
12	VCC	Power	3.3V power
13	GND	Power GND	Power GND
14	NC		
15	NC		
16	NC		
17	NC		
18	NC		
19	NC		
20	NC		
21	GND	GND	
22	GND	GND	
23	NC		
24	ADV-LED	Broadcast instruction	Blinks during broadcast, always bright after connection
25	STAT	Connection Status	Unconnected low level, connected high level
26	NC		
27	NC		
28	NC		
29	NC		
30	NC		
31	NC		
32	NC		
33	NC		
34	NC		

Size package:

AT instruction set

The user can communicate with the Bluetooth chip through the serial port. The serial port uses Tx and Rx two signal lines, and the baud rate supports 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200, 230400, 460800, 921600, 1382400.

The default baud rate of the serial port: 9600bps.

Instruction set details

(Note: When the AT command is sent, the carriage return line feed must be made. The AT command can only take effect when the module is not connected. Once the Bluetooth 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: \r\n)

1. Test instructions

Instruction	Response	Parameter
AT	OK	/

2. Reset

Instruction	Response	Parameter
AT+RESET	OK	/

3. Read version number

Instruction	Response	Parameter
AT+VERSION	+VERSION=<Param> OK	+VERSION+=JDY-30-V 2.6, Bluetooth V2.1

4. Restore factory configuration

Instruction	Response	Parameter
AT+DEFAULT	OK	/

5. Settings / Query - MAC Address

Instruction	Response	Parameter
AT+LADDR<Param>	OK	Param=112233445566
AT+LADDR	+LADDR=<Param> OK	

6. Settings / Query - Bluetooth Name

Instruction	Response	Parameter
AT+NAME<Param>	OK	Param:Bluetooth name Default Bluetooth name: "JDY-30"
AT+NAME	+NAME=<Param> OK	

Example: Set the Bluetooth name to: JDY

Send: AT+NAMEJDY\r\n

7. Settings / Query - Pairing Password

Instruction	Response	Parameter
AT+PIN<Param>	OK	Param:Pairing password Default password : "1234"
AT+PIN	+PIN=<Param> OK	

Example: Set the password to 1111

Send: AT+PIN111\r\n

Back: +PIN1111

This indicates that the pairing password has been configured to 1111.

8. Settings / Query - Baud Rate

Instruction	Response	Parameter
AT+BAUD<Param>	OK	Param:Baud rate 1: 1200

<p style="text-align: center;">AT+BAUD</p>	<p style="text-align: center;">+PIN=<Param></p> <p style="text-align: center;">OK</p>	<p>2: 2400 3: 4800 4: 9600 5: 19200 6: 38400 7: 57600 8: 115200 9: 230400 A: 460800 B: 921600 C: 1382400 Default baud rate : 9600</p>
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Example: Setting 115200 baud rate

Send: AT+BAUD8\r\n

Returns: +BAUD8

At this point, the baud rate has been successfully set to 115200.