

JDY-30 SPP Bluetooth Module Manual Product Introduction

JDY-30 transparent transmission module is based on Bluetooth 2.1 protocol standard, working frequency range is 2.4GHZ range, with strong signal and fast data transmission.

Product 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, can reach tens of K per second rate

Product application range

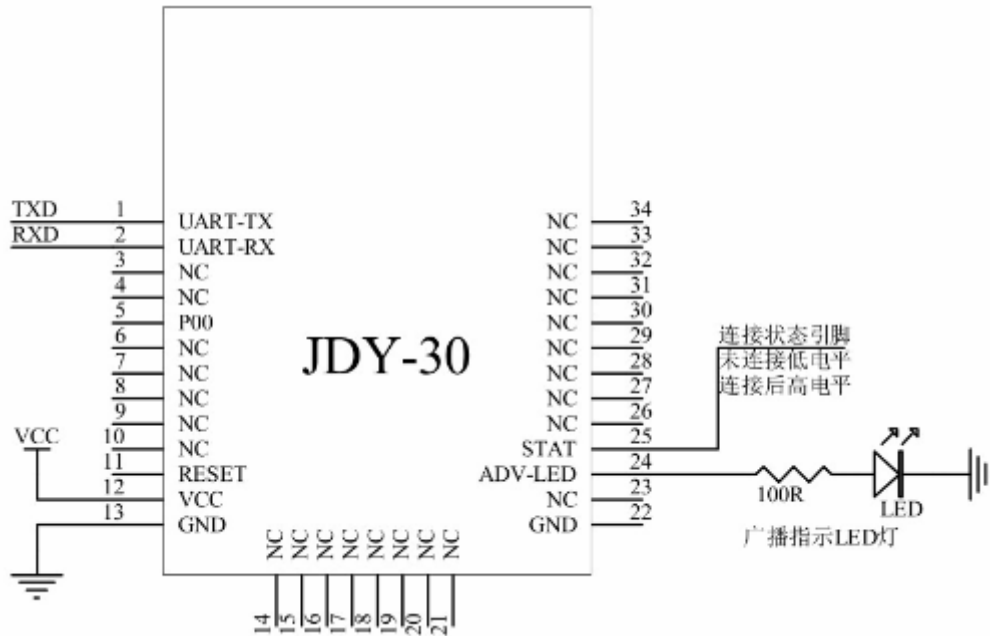
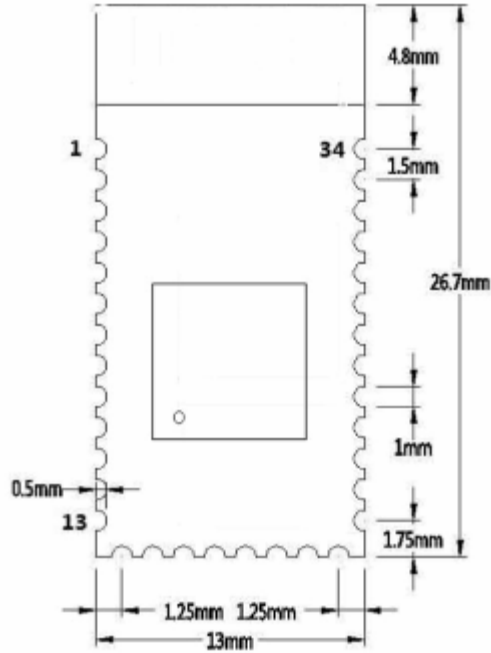
- 1: POS machine
- 2 : Bluetooth Printer
- 3: Bluetooth Toy
- 4: Bluetooth High Speed Data Transmission Product Application
- 5: Small Appliances
- 6: Automotive Electronics

Specifications:

- Operating Voltage: 2.2 – 4.2V
- Operating Temperature: -40 - 85°C
- Antenna: PCB Onboard Antenna
- Current: Normal Mode 19mA
Sleep mode 40uA

Pin	Function	Description
1	UART-Tx	Output from module, TTL Level
2	UART-Rx	Input to module, TTL Level
3...	N/C	
10	N/C	
11	Reset	
12	Vcc	3.3V DC Power Supply
13	GND	Power Supply Return (Ground)
14...	N/C	
20	N/C	
21	GND	Power Supply Return (Ground)
22	GND	Power Supply Return (Ground)
23	N/C	
24	ADV	LED output, flashes during broadcast, steady when connected
25	STAT	High when connected, Low when disconnected
26...	N/C	
34	N/C	

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Using AT commands, user can communicate through the serial port and Bluetooth chip.

Serial port uses Tx, Rx signal lines.

Baud rates supported include 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200, 230400, 460800, 921600, 1382400.

The default baud rate of the serial port is 9600Bauds.

AT commands can only take effect when the Bluetooth module is not connected. Once the Bluetooth module is connected to another device, the Bluetooth module automatically enters the transparent data transmission mode.)

AT commands are case-sensitive and must be followed by carriage return and line feed characters: \r\n)

AT Commands		
Command	Response	Function
AT	OK	Test command
AT+RESET	OK	Module reset
AT+VERSION	+VERSION= JDY-31-V1.2,Bluetooth V3.0	Read module version
AT+VERSION<version>	OK	Set module version
AT+DEFAULT	OK	Reset module to factory defaults
AT+LADDR	+LADDR= A15A0202187A	Read MAC address
AT+LADDR<MAC_Address>	OK	Set MAC Address (note 1)
AT+NAME	+NAME= JDY-31-V1.2	Read module name
AT+NAME<name>	OK	Set module name
AT+PIN	+PIN=1234	Read PIN
AT+PIN<pin>	OK	Set PIN
AT+BAUD	+BAUD= [1:C]	Read Baud Rate: 1: 1200 2: 2400 3: 4800 4: 9600 5: 19200 6: 38400 7: 57600 8: 115200 9: 230400 A: 460800 B: 921600 C: 1382400
AT+BAUD[1:C]	OK	Set Baud Rate

Note:

1) There is no good reason to change the MAC address. MAC addresses should be unique and changing it could cause two devices to have the same address which would make the modules unusable together.