

JDY-30 SPP Bluetooth Module Instruction Manual

The JDY-30 Bluetooth module is designed to the Bluetooth protocol standard, operates in the 2.4GHz frequency band and supports fast data rate.

Product Features:

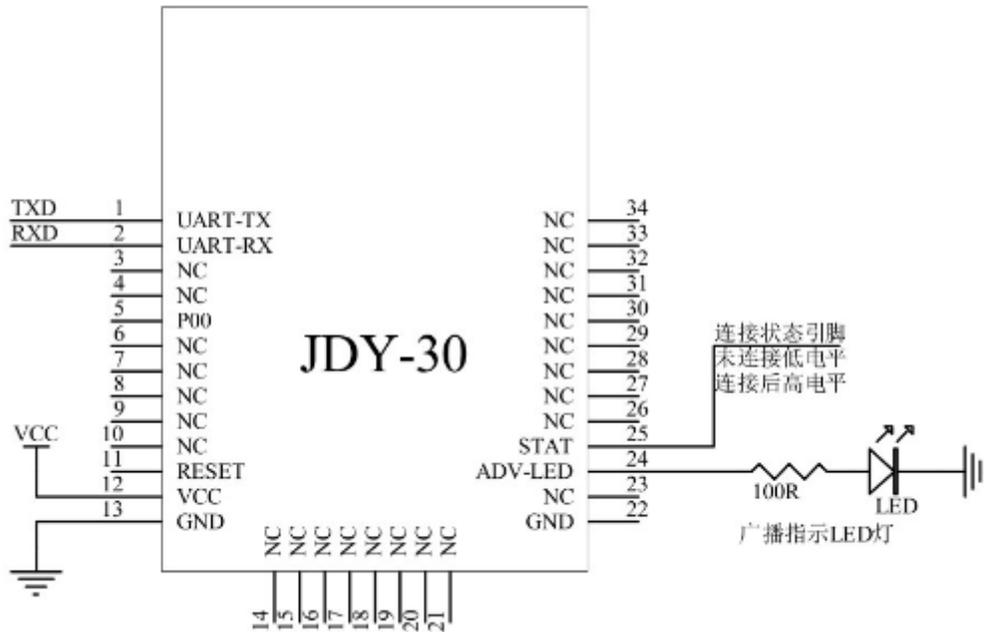
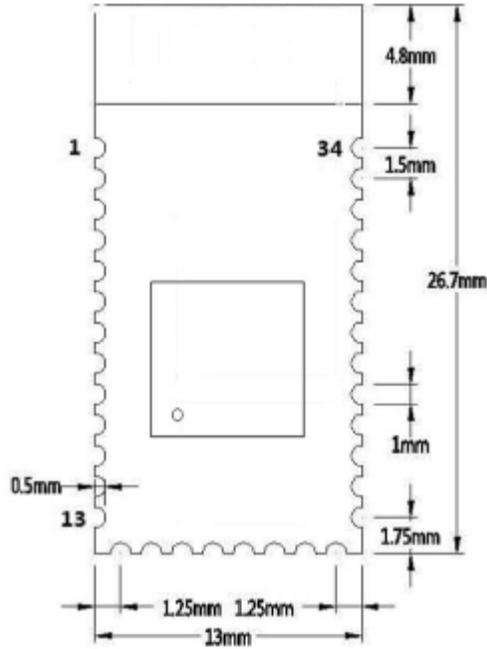
- 1: Support Bluetooth SPP serial port protocol with UART interface
- 2: Built-in PCB antenna
- 3: Bluetooth Class 2 (30 feet or 10 m range)
4. Bluetooth 2.1 protocol (note: the module itself reports Bluetooth version 3.0)
- 5: Data transfer rate is faster than BLE Bluetooth, can reach 10's of kbit/s data transfer rate

Specifications:

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

Pin	Function	Description
1	UART-Tx	Output from module, 3.3V CMOS level
2	UART-Rx	Input to module, 3.3V CMOS level
3 to 10	N/C	
11	Reset	
12	Vcc	3.3V DC Power Supply
13	GND	Power Supply Return (Ground)
14 to 20	N/C	
21	GND	Power Supply Return (Ground)
22	GND	Power Supply Return (Ground)
23	N/C	
24	ADV	LED output, flashes high during broadcast, steady high when connected
25	STAT	High when connected, Low when disconnected
26 to 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 are supported when the Bluetooth module is not associated. Once the Bluetooth module is associated with another device, the Bluetooth module automatically enters the transparent data transmission mode.

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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.