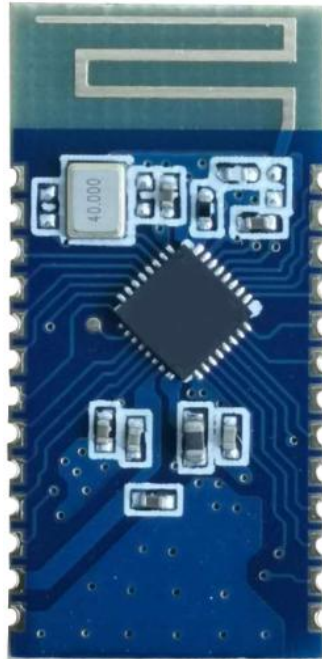


Dual-mode Bluetooth Serial Port Transparent Transmission Module

JDY-33 Bluetooth Module Manual



JDY-33 Bluetooth SPP Serial Port Transparent Transmission Module

II. Product Application

JDY-33 is a classic Bluetooth+BLE dual-mode Bluetooth, which can communicate with Bluetooth-enabled computers (desktop, notebook), mobile phones (Android), and IOS. It can be applied to

- ◆ Bluetooth POS
- ◆ Thermal printer
- ◆ Smart home control
- ◆ Automobile ODB detection equipment
- ◆ Application of Bluetooth transparent transmission products
- ◆ Shared chargers, weight scale

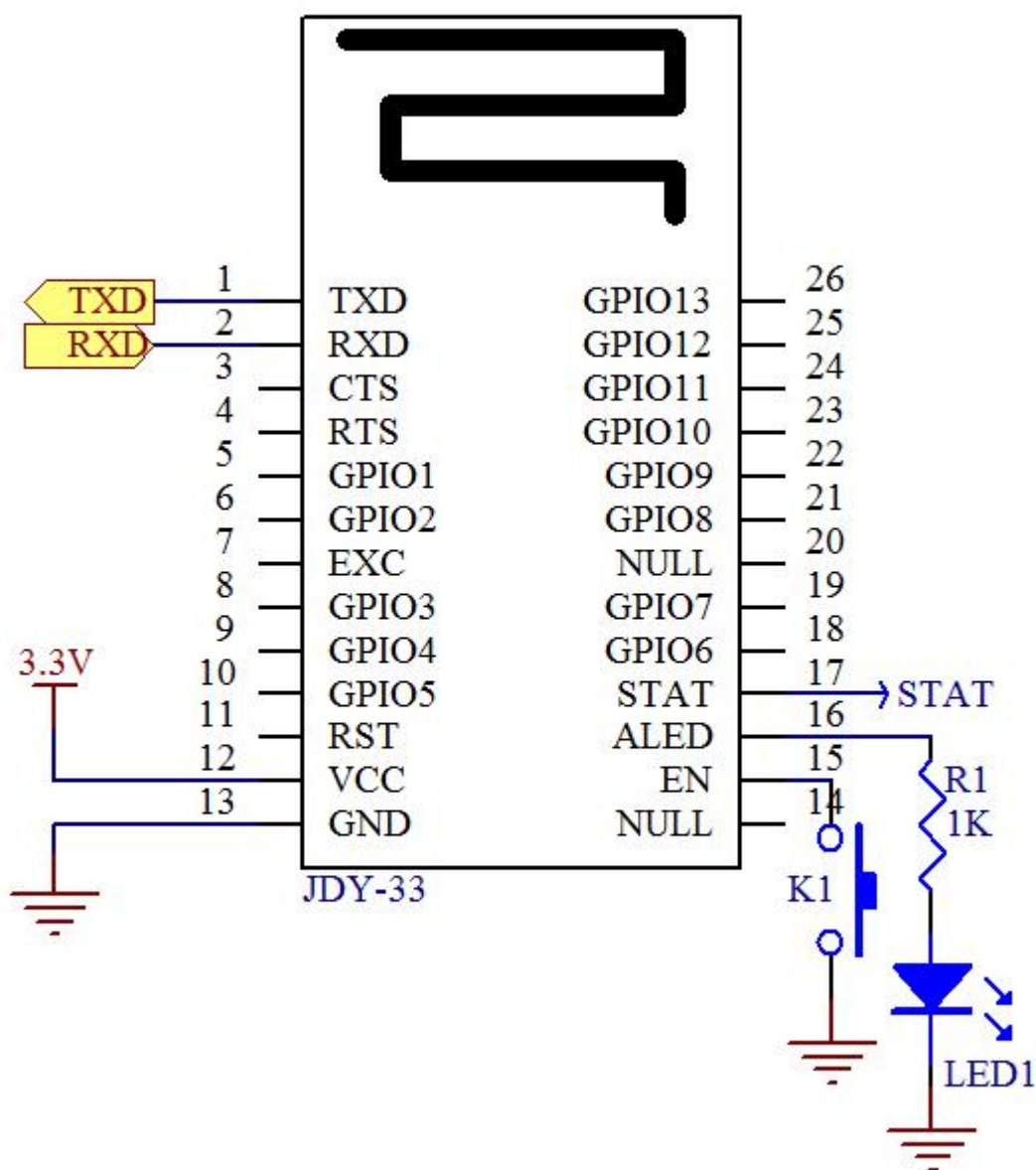
III. Detailed Module Parameters

Model	JDY-33
Working frequency band	2.4GHZ
Communication interface	UART
Working voltage	1.8-3.6V(3.3V recommended)
Working temperature	-40℃ - 80℃
Antenna	Built-in PCB antenna
Transmission distance	30 meters
Master-slave support	Slave machine
Module size	26.7 * 13 * 1.7 mm(Length, width and height)
Bluetooth version	Bluetooth 3.0 SPP + BLE4.2
SMT Welding Temperature	<260℃
Working Current	6.5mA
Deep sleep current	<10uA
Transmitting power	6db(Maximum)
Receiving sensitivity	-96dbm
SPP maximum throughput	16K bytes/s(android、 windows) When connected with Android and computer Bluetooth, the communication speed can reach 16K bytes/s, and there is no loss of packets (supporting serial port to receive and send data

JDY-33 Bluetooth SPP Serial Port Transparent Transmission Module

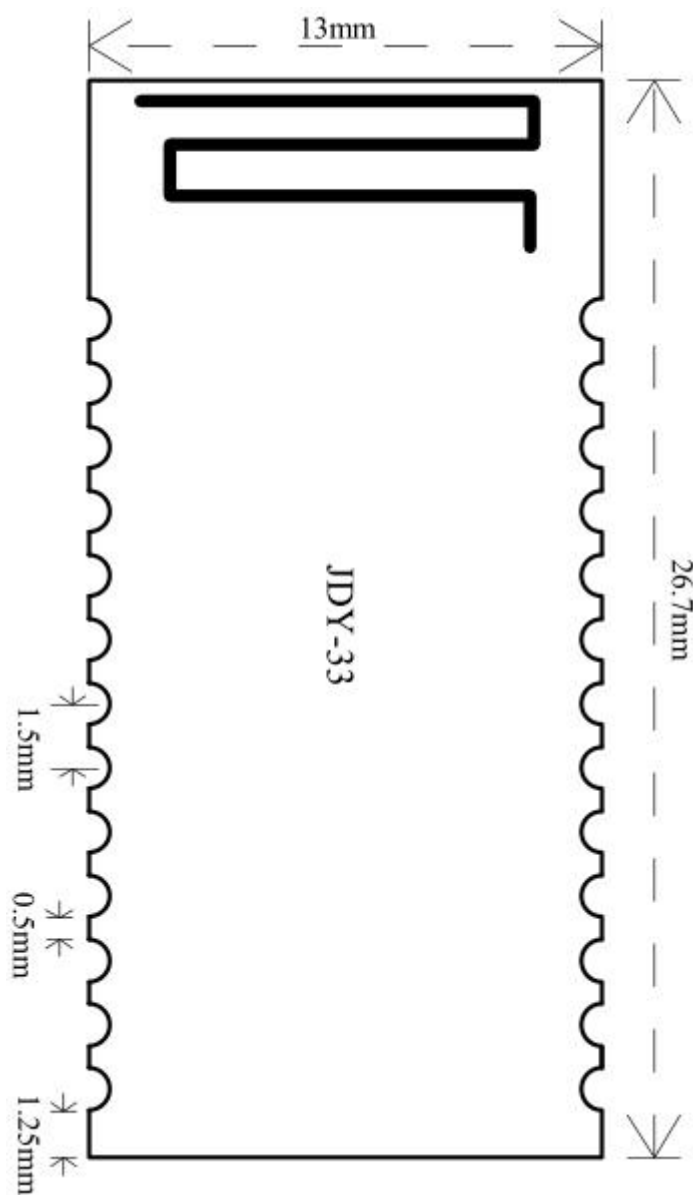
	continuously).
BLE	4K bytes/s(android、IOS) The communication speed is 4K bytes/s when BLE connects with IOS or Android (supporting 38400 baud rate to continuously send and receive data. If the baud rate is higher than 38400, the data cannot be sent continuously, and delay shall be added in the middle)

IV. Pin function and Application



JDY-33 applications only need to connect VCC, GND, RXD and TXD pins. The connection state requires a disconnect, send AT+DISC\r\n. Send AT+SLEEP\r\n for deep SLEEP in unconnected state. Deep sleep can be awakened by the falling edge of EN pin, or by sending data through serial port. It is generally recommended to use serial port to send AT+VERSION\r\n instruction to wake up.

VI. PCB Package Size



Model name	Antenna type	Antenna gain
JDY33	PCB	-2dBi

