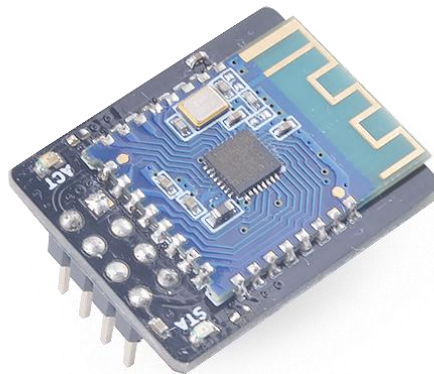


SP-BT Datasheet

v1.0



Features:

- Using SP-MOD UART to communicate with Bluetooth module.
- JDY-23 Bluetooth module: Support BLE 5.0(Compatible with BLE4.0、BLE4.2).Communication interface adopts UART interface. The module supports AT command control. It has ultra-low power design and high reliability design.
- Two built-in LED, making module status easier to see.
- Size :25*20mm
- Connection method: SP-MOD (2*4P 2.54mm pin header)

UPDATE

V1.0	2019/4/5 Published original document

INTRODUCTION

Bluetooth module: JDY-23	Working Frequency: 2.4GHz Transmission Power: 4db(maximum) Communication Interface: UART Supply voltage of external power supply :1.8V~3.6V Range of working temperature : -40°C - 80°C Antenna:Built-in PCB antenna Reception Sensitivity: -97dbm Support master-slave: Slave Bluetooth Version: BLE 5.0(Compatible with BLE4.0、BLE4.2) Awakening Current State: 800uA(Transmission) Sleep Status of Current: <50uA (Transmission) Deep Sleep of Current: 9uA (Not transmission) Default baud rate: 9600
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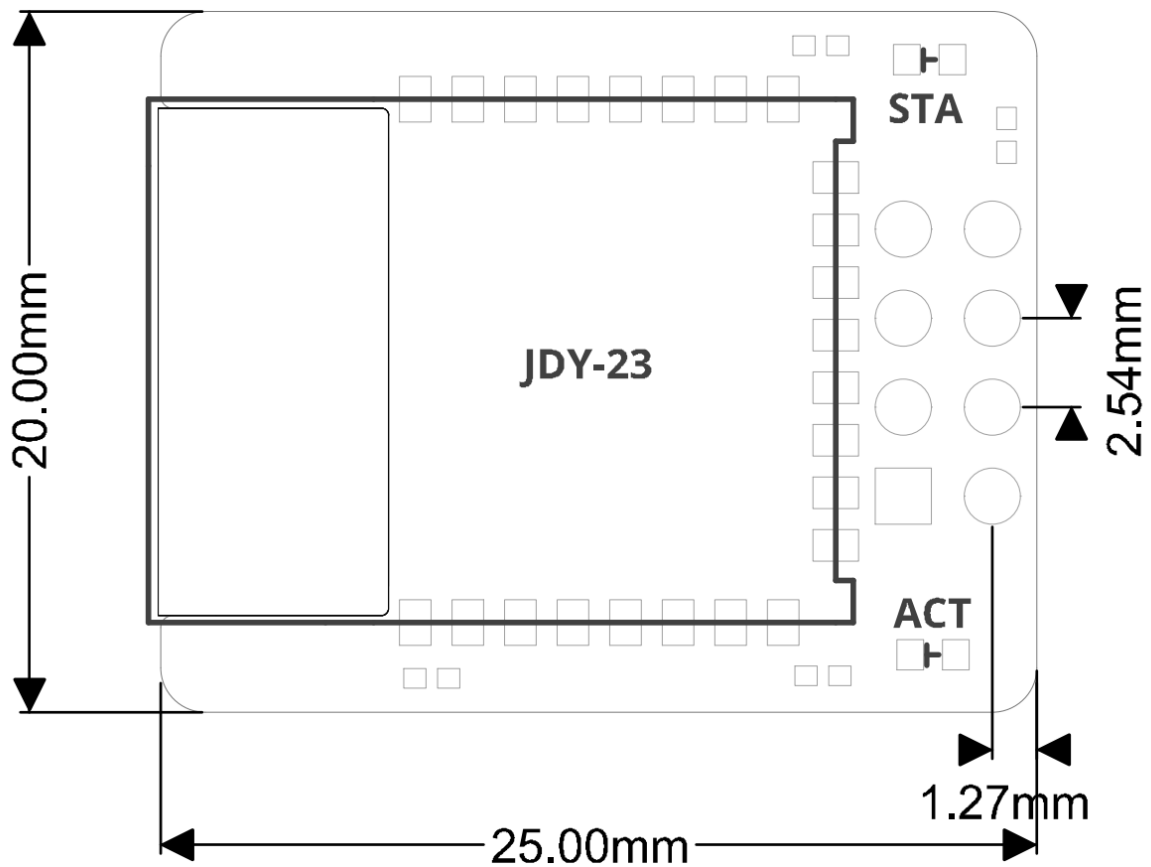
AT INSTRUCTION LIST

Order	Description
AT+POWR	Get transmit power
AT+RST	Soft reset
AT+MAC	Display MAC address
AT+NAME	Display Transmission name
AT+HOSTEN	Slave mode or IBEACON work mode
AT+IBUUID	UUID of IBEACON
AT+DISC	Disconnect
AT+SLEEP	Configures the Sleep mode
AT+MTU	Set the serial port for the APP to send a long number of packets

See [JDY-23-V2.1.pdf](#) for more information

HARDWARE FEATURES	
Supply voltage of external power supply	1.8V~3.6V
Supply current of external power supply	<10mA
Temperature rise	<30K
Range of working temperature	-40°C ~ 85°C

SIZE	
Length	25mm
Width	10mm
Height	3.4 mm (Excluding the height of pin header :8.7mm)



PIN DESCRIPTION

1	GND	Ground
2	AWK	Sleep wake-up pin (active low)
3	STA	The status of the pin connection
4	RX	Serial input pin (TTL level)
5	3V3	Power supply(3.3V)
6	NC	Not connected
7	RST	Reset (active low)
8	TX	Serial output pin (TTL level)

RESOURCES

Official Website	www.sipeed.com
Github	https://github.com/sipeed
BBS	http://bbs.sipeed.com
Wiki	maixpy.sipeed.com
Sipeed Model Store	https://maixhub.com/
SDK Reference	dl.sipeed.com/MAIX/SDK
HDK Reference	dl.sipeed.com/MAIX/HDK
E-mail(Technical Support)	support@sipeed.com
Telgram Link	https://t.me/sipeed
QQ Group	878189804



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