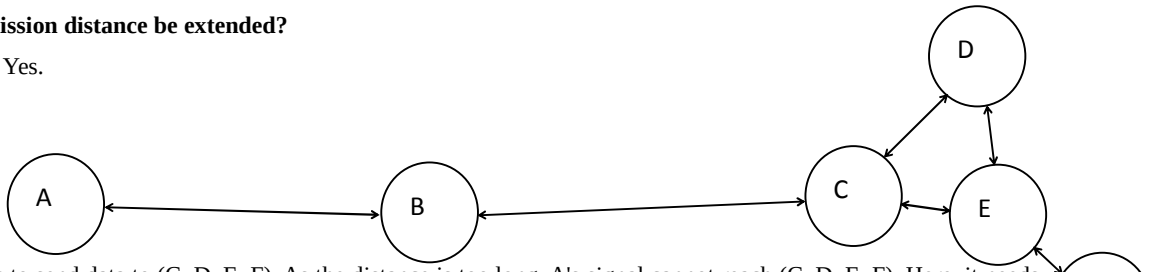
Q1: In AT+ROLE5 network mode, after the APP is connected, the module can only receive MESH data but cannot send MESH data.

A: It supports sending MESH data in the APP connection state. Since the APP enters the transparent transmission state after connection, when it needs to send MESH data in the APP connection state, **it needs to pull down PWRC pin to send MESH instruction**.

Q2: If there is a need for a long distance transmission, put JDY-24M every tens of meters, will the network transmission distance be extended?

A: Yes.



A needs to send data to (C, D, E, F). As the distance is too long, A's signal cannot reach (C, D, E, F). Here, it needs to put device B between A and C to solve the problem of communication distance between A and C.

Q3: In the network mode, after being connected by mobile phone, will it affect the sending and receiving of MESH data?

A: No, it won't. When MESH communication is connected by APP or transmitted through APP, it works independently and does not affect each other.

Q4: Does it have to turn on the central machine in the network state?

A: **We generally do not recommend to use the central machine function, because the central machine causes network load and it not affect network communication if the central machine is closed.**

Q5: In the multi-connected mode, why can't serial port transmit data directly through transparent transmission, but only through AT+DATA?

A: No matter in the mode of multi connection of slaves or simultaneous connection of master and slave, the module sends data through AT+DATA. Because when sending data, it needs to specify the device number to send data. For example, AT+DATA18899 means sending 8899 data to device 1.

Q6: In the AT+ROLE2 mode, can it detect the broadcast data of all the BLE around?

A: Yes, the broadcast data of BLE can be detected.

ADV output format of BLE: HEAD(2byte) + MAC(6byte) + RSSI(1byte) + ADV(1 to 31byte) + END(2byte)

SCAN output format of BLE: HEAD(2byte) + MAC(6byte) + RSSI(1byte) + SCAN(1 to 31byte) + END(2byte)

Example: Output broadcast package of JDY-18 module detected

ADV output format of JDY-18:

54 41 3C A5 19 7A F5 DC 28 02 01 06 05 02 E0 FF E7 FE 0B FF CC D4 88 A0 3C A5 19 7A F5 DC 0D 0A

SCAN output format of JDY-18:

54 53 3C A5 19 7A F5 DC 28 07 09 4A 44 59 2D 31 38 0D 0A

Q7: How does the communication module communicate under MESH network communication?

A: The network communication data has priority to communicate with the nearest equipment. When the communication distance is too long, as the relay function between the devices, as long as each module is within the communication distance, the network communication can be carried out. Multiple modules work in the same environment at the same time without interference each other.

Q8: In AT+ROLE0 mode, it needs to reduce the working current, enter light sleep to wake up the phone connection, and disconnect the phone to enter sleep. What is the configuration method?

A: There are two methods to configure,

Method 1: Use AT+STARTEN0 to configure the power on sleep mode, and configure the broadcast interval to AT+ADVIN5, and then send AT+RESET to restart to take effect. The broadcast interval can be configured according to the user's requirements.

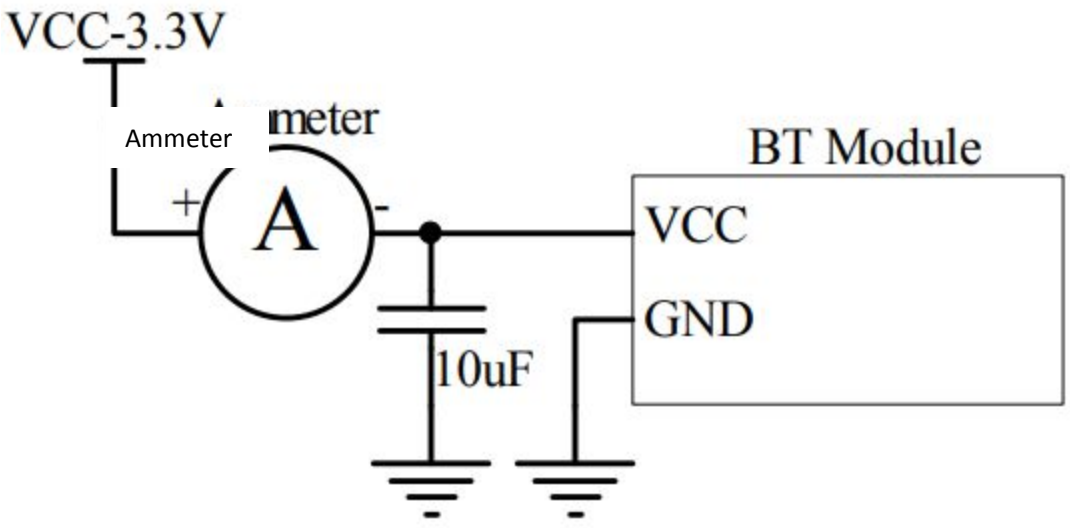
Method 2: Use the power on wake-up mode, the AT+STARTEN1 mode. The user configures the broadcast interval AT+ADVIN5, and then sends AT+SLEEP to enter light sleep. The broadcast interval can be configured according to the user's requirements.

The above is the sleep configuration method of broadcast light sleep.

Q9: In the slave light sleep mode, what is the average current of each broadcast interval?

Working mode	Broadcast interval	Average current
AT+ROLE0（Wake-up state）	100mS	
AT+ROLE0（Light sleep state）	100mS	164uA
AT+ROLE0（Light sleep state）	200mS	120uA
AT+ROLE0（Light sleep state）	300mS	80uA
AT+ROLE0（Light sleep state）	500mS	30uA
AT+ROLE5（Network wake-up state）	-	4.3mA

Testing current wiring diagram



It is generally recommended that the ammeter be output to the VCC pin of the module and merge a capacitor.

Q10: In non learning mode, KEY2 of module A(1001) controls OUTPUT5 level instruction of module B(1002).

A: Module A only needs to send the following instructions to control the OUTPUT5 level of module B.

AT+LEARN0

AT+NETID1001

AT+KEY2,1002,5,1

AT+RESET

Q11 ： Description of sleep mode of jdy-25m

Working mode		Do you support sleep	
At instruction	Model description	Light sleep	Deep sleep
AT+ROLE0	Transparent transmission of slave (APP, Wechat, applet)	√	√
AT+ROLE1	Master transparent transmission mode	×	√
AT+ROLE2	BLE broadcast probe module	×	×
AT+ROLE3	iBeacon mode	√	√
AT+ROLE4	iBeacon 探针模式	×	×
AT+ROLE5	MESH 组网模式	×	√
AT+ROLE6	Multi-connected slave mode (supports 4 master connections)	√	√
AT+ROLE7	Multi-connected master-slave (the master supports to connect 4 slaves at the same time, and the slave supports to connect 4 masters)	√	√
AT+ROLE8	Key label detection mode (when the bound label approaches, IO of JDY-24M will act)	×	×

explain："√" Support

"×" Not supported

Q12：Jdy-24-25m open at + type1 and input 4-digit password, unable to connect

A: jdy-24-25m, the default is to input a 6-digit password. If 1234 is returned by checking at + pin, you need to enter 001234 to connect. After jdy-24-25m-v1.72, the default password will be changed to 123456