Product Introduction

JDY-40 is developed by 2.4G technology, with a distance of 120 meters. It uses serial communication interface, which is simple and quick to use. You can apply JDY-40 to products only needs to know the knowledge of serial port.

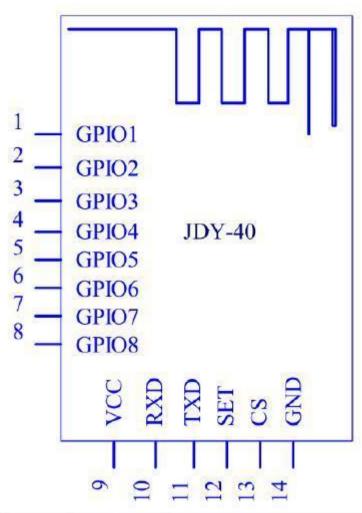
Technical Parameter

Mode1	JDY-40
Operating frequency range	2. 4G
Transmit power	MAX 12db
Working temperature	-40°C − 80°C
Reception sensitivity	-97db
Transmission distance	120meters
TX current	40mA
RX current	24mA
Sleep current	5uA
Communication interface	Standard TTL serial port

Application Scene

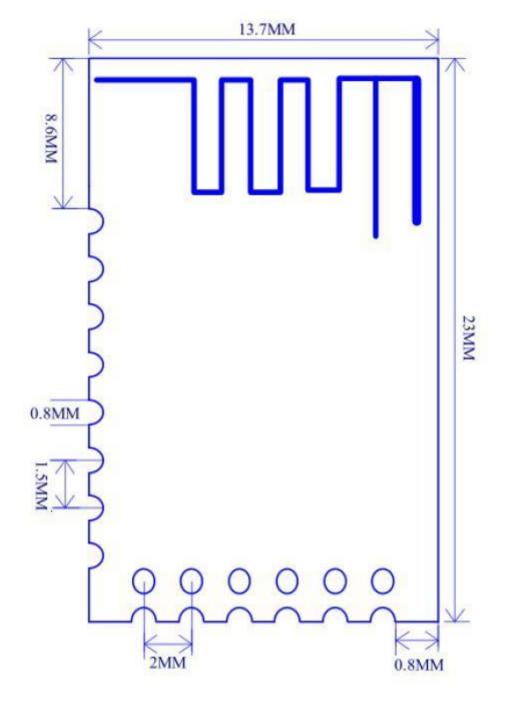
- 2.4G panel switch
- 2.4G remote controller
- 2.4G transparent transmission
- Mobile phone one-to-many control
- IO switching control
- 2.4Gtoys
- Application of intelligent home control

JDY-40 Pin Definition



Pin	Pin Names	Function	
1	GPI01	Input/output IO, which can be configured by AT+CLSS	
2	GPI02	Input/output IO, which can be configured by AT+CLSS	
3	GPI03	Input/output IO, which can be configured by AT+CLSS	
4	GPI04	Input/output IO, which can be configured by AT+CLSS	
5	GPI05	Input/output IO, which can be configured by AT+CLSS	
6	GPI06	Input/output IO, which can be configured by AT+CLSS	
7	GPI07	Input/output IO, which can be configured by AT+CLSS	
8	GPI08	Input/output IO, which can be configured by AT+CLSS	
9	VCC	Power Supply (2.2V - 3.6V)	
10	RXD	Serial port input pin	
11	TXD	Serial port output pin	
12	SET	AT command switching pin (low level AT instruction, high level	
		transparent transmission)	
13	CS	CS chip select pin (low level of awaken, high level of sleep)	
14	GND	Power Ground	

Dimensional Drawing



Default Configuration

Sequence	Function	Parameter	instructions
1	Baud rate	9600	AT+BAUD
2	Wireless ID	8899	AT+RFID8899
3	Device ID	1122	AT+DVID1122
4	Channel	001	AT+RFC001
5	Transmit power	12db	AT+POWE9
6	Device type	AO	AT+CLSSA0

AT Instruction Set

Sequence	instructions	Effect	Default
1	AT+BAUD	Baud rate	9600
2	AT+RFID	Wireless ID	8899
3	AT+DVID	Device ID	1122
4	AT+RFC	Channel (128 Channels)	001
5	AT+POWE	Transmit power	+10db
6	AT+CLSS	Type	A0

AT instruction instructions

In particular, the JDY-40 module sends the AT instruction need to end the symbol \r\n

Setting / query - baud rate

Instruction	Response	Parameter
5		Param(1-7)
		1:1200
AT+BAUD <param/>	OK	2:2400
		3:4800
		4:9600
AT+BAUD	+BAUD= <param/>	5:14400
		6:19200
		Default Value: 4

RFID Setting / query - RFID

Instruction	Response	Parameter
AT+RFID <param/>	OK	Param(0000-FFFF)
AT+RFID	+BAUD= <param/>	Default Value:8899

Setting / query - DVID

Instruction	Response	Parameter
AT+DVID <param/>	OK	Param(0000-FFFF)
AT+DVID	+BAUD= <param/>	Default Value:8899

RFC Setting / query - RFC

Instruction	Response	Parameter
AT+RFC <param/>	OK	Param(001-128)
AT+RFC	+RFC= <param/>	Default Value:001

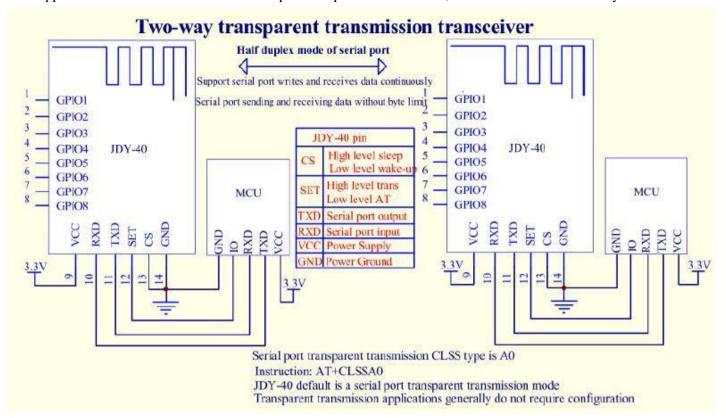
POWE Setting / query - POWE

Instruction	Response	Parameter
		Param(0-9)
AT+POWE <param/>	OK	0: -25db
		1: -15db
		2: -5db
AT+POWE		3: 0db
	+POWE= <param/>	4: +3db
		5: +6db
		6: +9db
		7: +10db
		8: +10db
		9: +12db

Setting / query - CLSS type

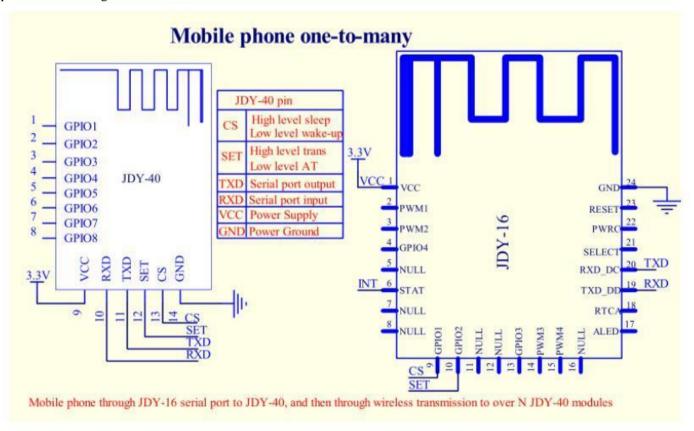
Instruction	Response	Parameter
	1200	Param
AT+CLSS <param/>	OK	A0: Serial port transparent transmission(Transceiver)
-	2	C0: Remote controller or IO key
		indicator light(Transmitting terminal)
		C1: remote controller or IO key
AT+CLSS	+CLSS= <param/>	without indicator light (Transmitting terminal)
		C2:IO is high level at normal level,
		low level after receiving signal and
		high level after delay 30mS
		C3:IO is low level at normal level,
		high level after receiving signal and
		low level after delay 30mS
		C4:IO is low level at normal level,
		receives pressed signal of high level
		and receives lift signal low level
		C5: The IO level is reversed when
		IO receives the pressed signal.
		Default Value:A0

It can be applied to MCU and MCU wireless serial port transparent transmission, instrument and electronic toys.



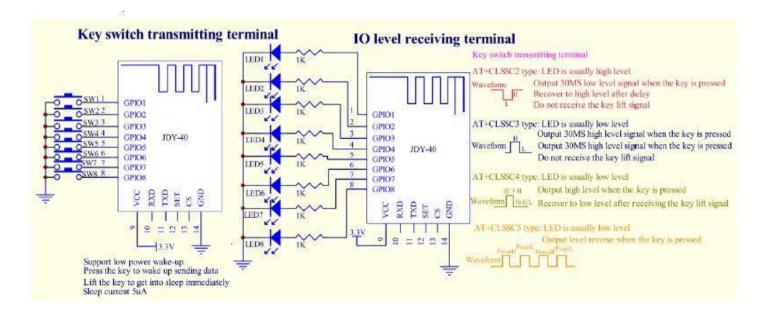
Mobile phone one-to-many control

It can be applied to mobile phone one-to-many control, mobile phone one-to-many transparent transmission, mobile phone one-to-many application of intelligent furniture control.



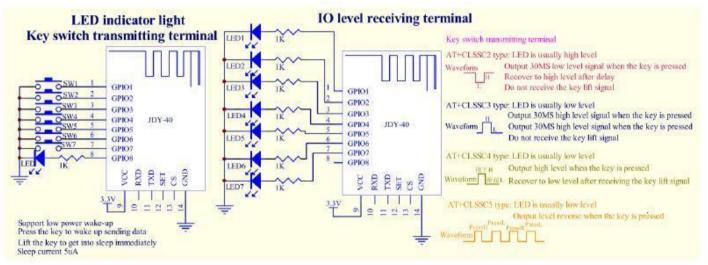
Switching control 1

It can be applied to: the 2.4G remote controller with 8 IO can be applied to the remote control key and support the low function, two 7th batteries can be used for at least one year, application of low power consumption switch panel in intelligent home, and 2.4G toy application.



Switching control 2

It can be applied to: the 2.4G remote controller with 7 IO can be applied to the remote control key and support the low function, two 7th batteries can be used for at least one year, application of low power consumption switch panel in intelligent home, and 2.4G toy application.



Switching control 3

It can be applied to: the 2.4G remote controller with 8 IO can be applied to the remote control key and support the low function, two 7th batteries can be used for at least one year, application of low power consumption switch panel in intelligent home, and 2.4G toy

application.

