



**JZC TELECOM
Technology**

Shenzhen JZC TELECOM Technology CO.,LTD.

JZX876 (A/B) RF Wireless Module

User's Manual



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Before using the product, please read the user's manual carefully. Any question in technical, you can contact us. Tel: +86-755-86714296, 83304518.



About JZX876 (A/B)

JZX876(A/B), a Mini power wireless module, is used as the wireless data transmission in short distance.

With the characteristics of small size, light weight, low power consumption, good stability and reliability, it can provide bidirectional data transmission, test and control for users.

It is used for Wireless meter reading, such as water meter, electric meter and gas meter, parking meter, intellectual card, electronic weighing apparatus, meter for checking on work attendance, queue wireless meter, building control, shipping company control, alarm system, intelligent equipment, Automatic data collecting system; Industrial remote control and remote test building automation, safety and security, powerhouse equipment wireless monitor, entrance control system, etc.

If necessary, we can provide USB interface to make it easy to settle the question of Power Supply for Mini computer and PC users.

Features:

1.Ultra low power transmission

The highest transmission power is 100mW(A)/500Mw(B), high receiving sensitivity: -123dbm,

Receiving current: <35mA, JZX876 A transmitting current: <150mA,

JZX876 B transmitting current: <400 mA

JZX876A/17mm×33mm×10 mm; JZX876B/33mm×36.5mm×10 mm;

2. ISM frequency band, not requiring on application of frequency point

Carrier frequency of 433+-5MHz, also capable of 868MHz.

3. High anti-interference and low BER (Bit error Rate)

Based on the GFSK modulation mode, it adopts the efficient communication protocol. The actual bit error rate of 10⁻⁵ ~ 10⁻⁶ can be achieved when channel bit error rate is 10⁻².

4. Long transmission distance

JZX876 A Within the range of visibility, the reliable transmission distance is

(BER=10⁻³/1200bps) , >1500m, (BER=10⁻³/9600bps) >1000m when the antenna is higher than 3M.

JZX876B Within the range of visibility, the reliable transmission distance is

(BER=10⁻³/1200bps) , >3000m, (BER=10⁻³/9600bps) >2000m when the antenna is higher than 3M.

5. Power

JZX876 A: 2.5V—3.6V; JZX876 B:4.5V—5.5V

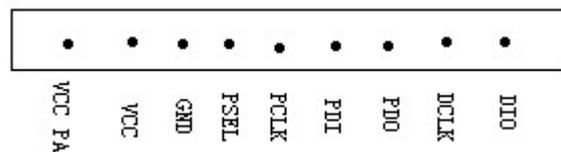
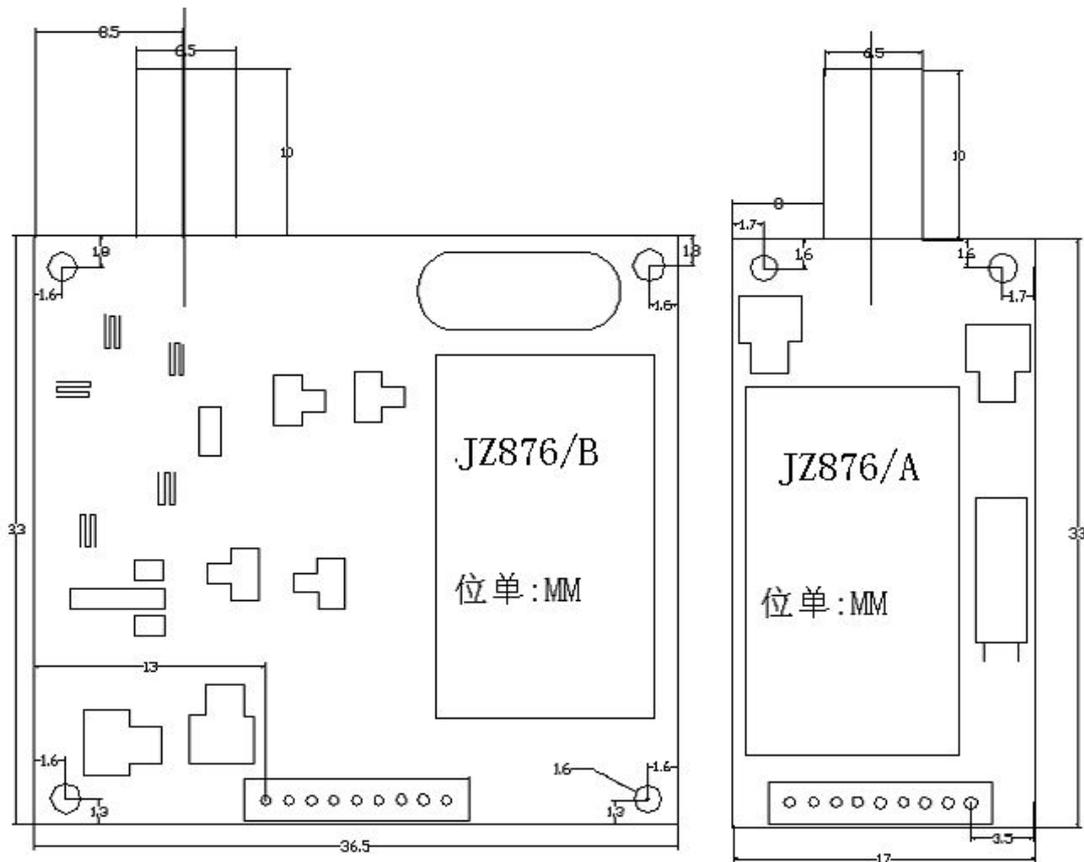
6. IC

IC :CC1020.



Application of JZX876(A)

1. Dimensional drawing



Remarks: The space between each pin is 2.0 mm.

Programming:

1. Receive/Transmit IO control

Receiving/standby mood : the 15th pin of CC1020 is low level, the 14th pin is high level

Transmitting : the 15th pin of CC1020 is high level, the 14th pin is low level



Technical specification of JZX876(A)

Working frequency: 433+/-5MHZ, capable of 868MHz

Transmission power: 100mW

Receiving sensitivity: -123dBm

Transmitting current: <150mA,

Receiving current: <35mA

Power supply: 3V

Working temperature:-20°C ~65°C

Working humidity: 10%~90% relative humidity without condensation

Dimension: 17mm×33mm×10 mm

Trouble and solve ways:

NO.	Trouble	Trouble causes and solve ways
1	No shine of Indicator light	a、 Power Line badness touch . b、 Power is bad. c、 Power line meet in reverse, or diode of polarity protect is bad.
2	No transmit or No receive	a、 Radio is badness touch with PC/terminal. b、 Radio with TTL/RS232/RS485 not match terminal. c、 RX frequency and TX frequency is not same.
3	Bit error rate High	a、 antenna not match, or touch bad; b、 RF baud rate is not right. c、 Power supply ripple is too great.
4	Indicator light twinkling	a、 Electromagnetism disturb in circumstance. b、 Same frequency disturb in the circumstance.

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