



JZC TELECOM
Technology

Shenzhen JZC TELECOM Technology CO.,LTD.

JZX835 Ultra-small Micro Power Wireless Module

User's Manual



DVER 2.0

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JZX835 Ultra-small Micro Power Wireless Module

JZX835 data transmission module is a high degree of integration of ultra low power, The wireless data transmission module and micro power consumption in half duplex, its recovery, Use the "A7139" high performance ultra low frequency chip and high, Speed microcontroller.

It is suitable for battery powered application system.

The module adopts transparent broadcast transmission mode and the protocol specified Point transmission. Can make all the module received number, According to, also can only let the specified nodes receive data. At the same time, The module also has a 10 bit AD sampling, sampling, temperature 2 IO input and output functions. The user does not need to be additionally development control board, can be directly to the module are connected with keys or alarm sensor class or control equipment, You can complete an alarm control or sampling system.



Applications:

- ※ Water, electricity, gas, heating automatic meter reading system
- ※ Wireless smart terminal PDA
- ※ Wireless Queue System
- ※ Wireless alarm and security system
- ※ Smart Card
- ※ Medical and electronic instrumentation automation control
- ※ Intelligent teaching equipment
- ※ Intelligent home automation and lighting control
- ※ Wireless electronic scale

Features:

- ※ Frequency: 428-434MHz/ 470~510MHz
- ※ Distance: 700m(1200Bps)
- ※ Modulation: FSK
- ※ Transparent transmission
- ※ Built-in watchdog to ensure long-term reliable operation
- ※ UART/TTL Interface
- ※ Convenient and flexible
- ※ Almost 200bytes data buffer
- ※ Suitable for built-in installation

The JZX835 module is built in the wireless data transmission module, using ISM band frequency, No application frequency; using custom communication frequency, transmitting power is 50mW (17dB), High receiving sensitivity -115dbm, volume 30.8mm*19.4mm*6mm, for wireless data transmission module industry volume minimum, Is very convenient for the user to do embedded wireless system.

A double 64bytes large capacity buffer in the JZX835 module, the buffer is empty state, The user can be 1 times the transmission of 64bytes data, when the air is greater than the serial baud rate when the baud rate setting, 1200/2400/4800/19200bps, Can the 1 transmission infinite data, at the same time, the JZX835 module provides a standard UART/TTL interface, 1200/2400/4800/19200bps 4 rate, and three kinds of interface test method. External JZX835 interface module adopts transparent data transmission mode and the protocol transmission mode. The two ways of the user is not set, the module automatically judgment, can adapt to a standard or non standard user agreement, The received data is that transmit data.

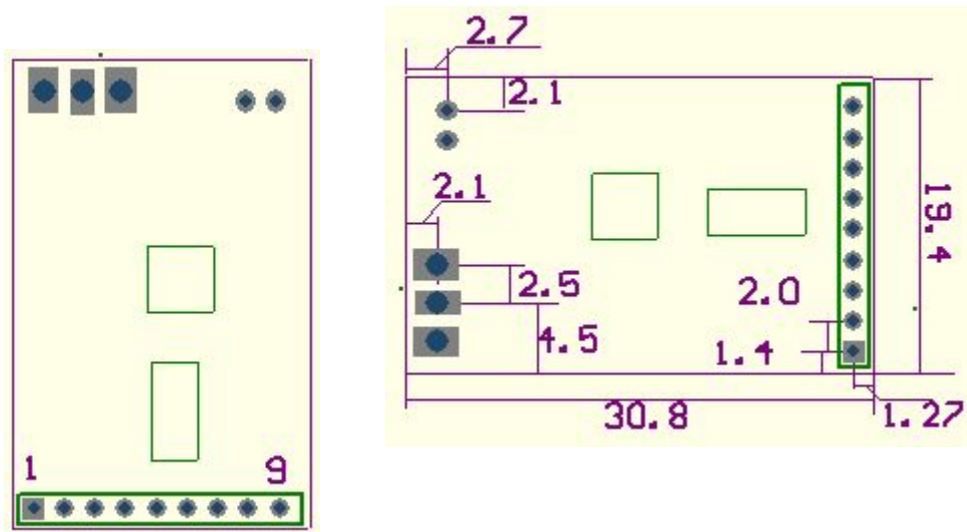
Setting module adopts the serial port settings module parameters, users only need to set a few parameters by using. Parameter setting provides a set of software "RF-Magic-JZX835" by the company using PC serial line. Two is a dynamic online settings, serial command dynamic modification, Specific parameters see JZX835 module settings section method.

JZX835 interface definition:

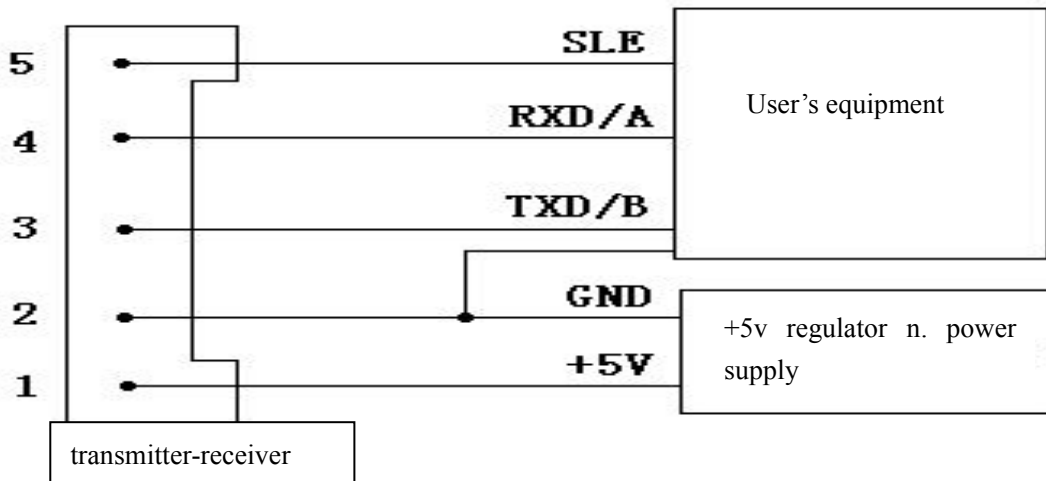
Table 1: Definition of connecting pins and connection method

Item no	PIN	Description Level Connected to the terminal	User terminal	electrical level	Remarks
1	VCC	+3V	+3V	DC5V	TTL 3V user's choose
2	GND	Power supply/Ground	DGND/AGND	Ground	
3	RXD)	Serial data receiving end	TXD		
4	TXD	Serial data transmitting end	RXD		
5	SLE	Sleep control (input) end		TTL	High level to sleep, Low level awake
6	TEM P	18B20 temperature sampling Pin	18B20 data Pin		
7	AD	The AD sampling pin	Input 0~3.0V		
8	IO1	NO. 1 on-off output	User's terminal on-off		
9	IO2	NO. 2 on-off output	User's terminal on-off		

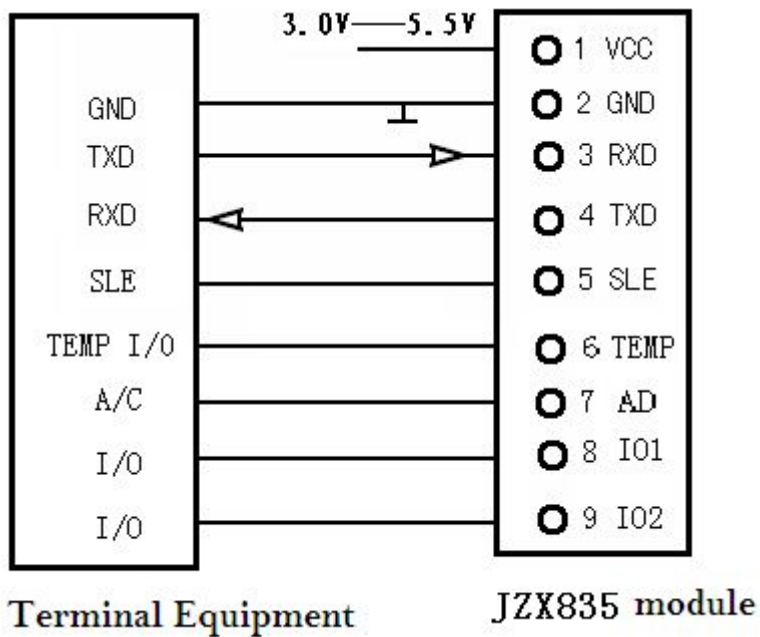
Dimension:



Note: The Pin 5 of no-sleeping version is not be used, pin 5 must be hung.

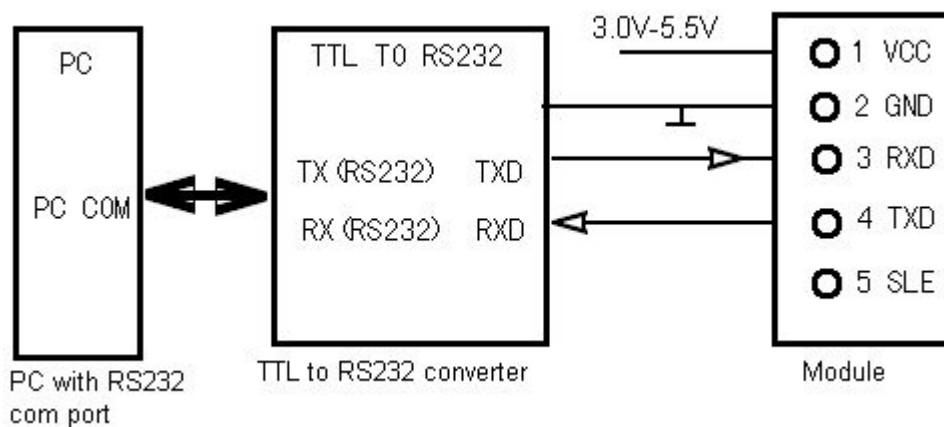


Module with customer equipment connections



Note: JZX835 did not sleep in the state, the module of the SLE feet must be vacant. In the sleep state when the module must be low, the module can send and receive data

Module with PC connections

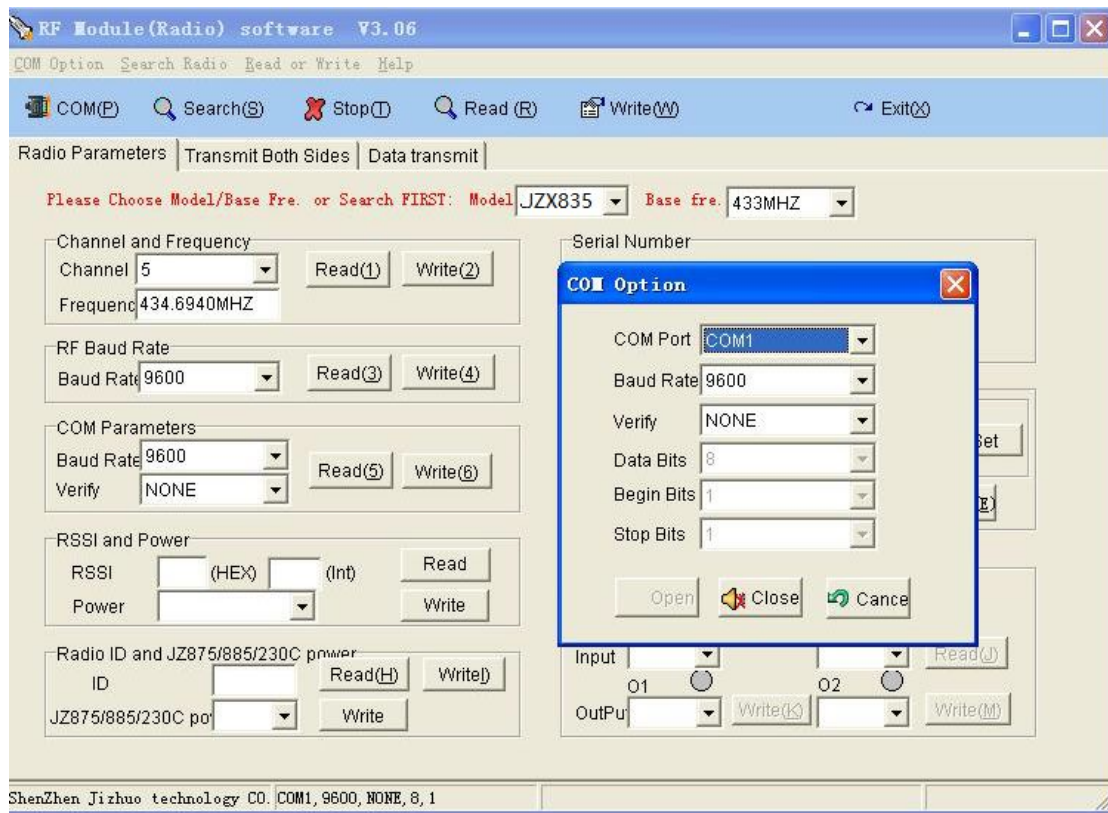


Note: As JZX835 mode TTL interface module, so the PC must be added to connect the TTL to RS232 converter, and converter must supply DC 5V of electricity.

Technical specification of JZX835

Technical specification	
Modulation:	GFSK
Frequency:	433MHz Users could customize
Transmit Power:	50mW(17dB)
Receiver sensitivity:	-115dBm
Transmit Current:	<90mA
Receive Current:	<5.5mA
Sleep Current:	<1.μA
Channel Rate:	1200/2400/4800/9600Bit/s customized
Serial Port Rate:	1200/2400/4800/9600Bit/s customized
Interface:	TTL
Interface-data-format:	8E1/8N1/8O1 customized
Working Power:	DC 2.7~3.3V
Working Temperature:	-20℃ ~ 75℃
Working humidity:	10%~90% Relative humidity, no condensing
Size:	30.8mm*19.4mm*6mm
Communicated Model:	JZX835

For software testing and change parameters



Note: All of the rights of final interpretation and modification by our company