

ZF01-D Wireless Module

Operation Manual



Figure 1. ZF01-D wireless module

● Features:

1. Providing RS-422/USB/RS-232/TTL interface, highly integrated, can connect with transceiver equipment directly.
2. Low power RF transmission: Maximum transmit power 10mW
3. GFSK/FSK modulation mode
4. Crystal frequency stabilization.
5. High-efficiency forward error correction channel encoding technology is used.

● Main Application Areas:

1. AMR – Automatic Meter Reading
2. Wireless alarm and security systems
3. Wireless POS, PDA
4. Long-distance non-contact RF smart cards, RFID tags.
5. Wireless Field Bus、wireless conference voting system

● Main Technical Specifications:

RF channels(MHz)	433.050, 433.640, 434.410, 434.910
modulation mode	GFSK
baud rate	9600bps
output power	10mW
Interface data format	UART , 8E1/8N1 data format
Power supply	DC 3.6V---5V
overall dimensions	70 X 45 X 17 mm

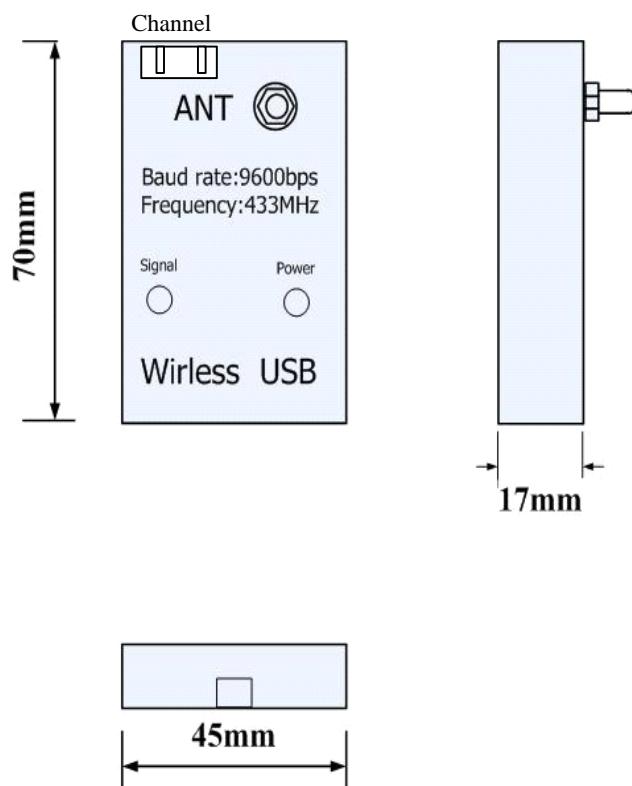


Figure2. interface and sizes

● Interface Description:

ZF01-D wireless module can be directly connected to equipment by Interface port, shown as Figure3. wireless communication application diagram shown as Figure4

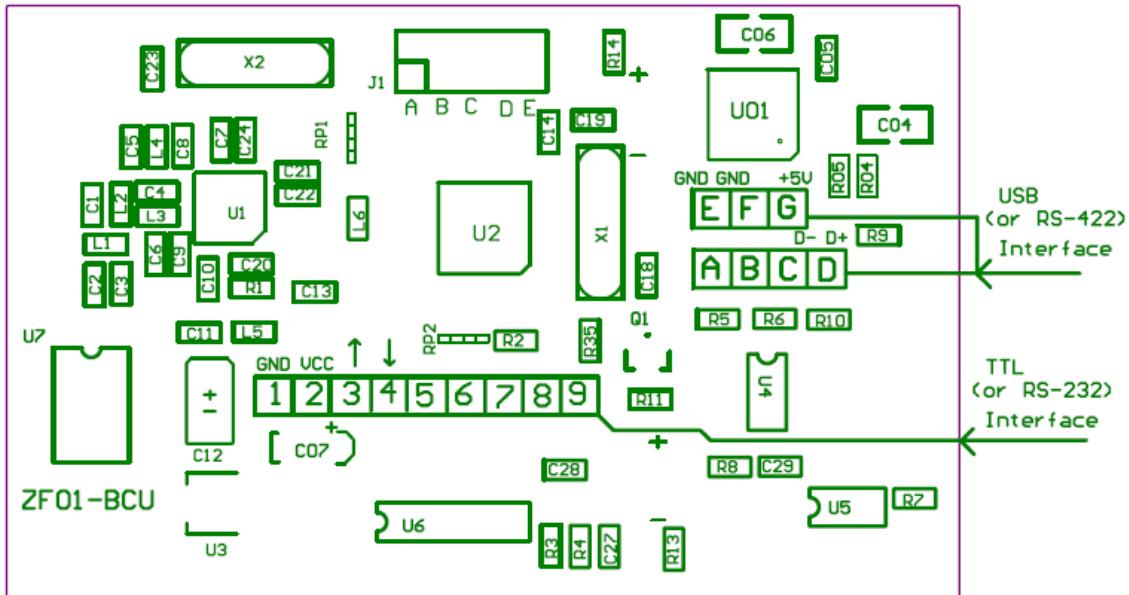


Figure3. ZF01-D Interface connect

Table1. Interface connect

USB connect	D+ to D	D- to C	VCC to G	GND to E (orF)
RS-422 connect	+TX to A	-TX to B	-RX to C	+RX to D
RS-232	RXD to 6	TXD to 7	GND to 5	
TTL	RXD to 4	TXD to 3	GND to 5	

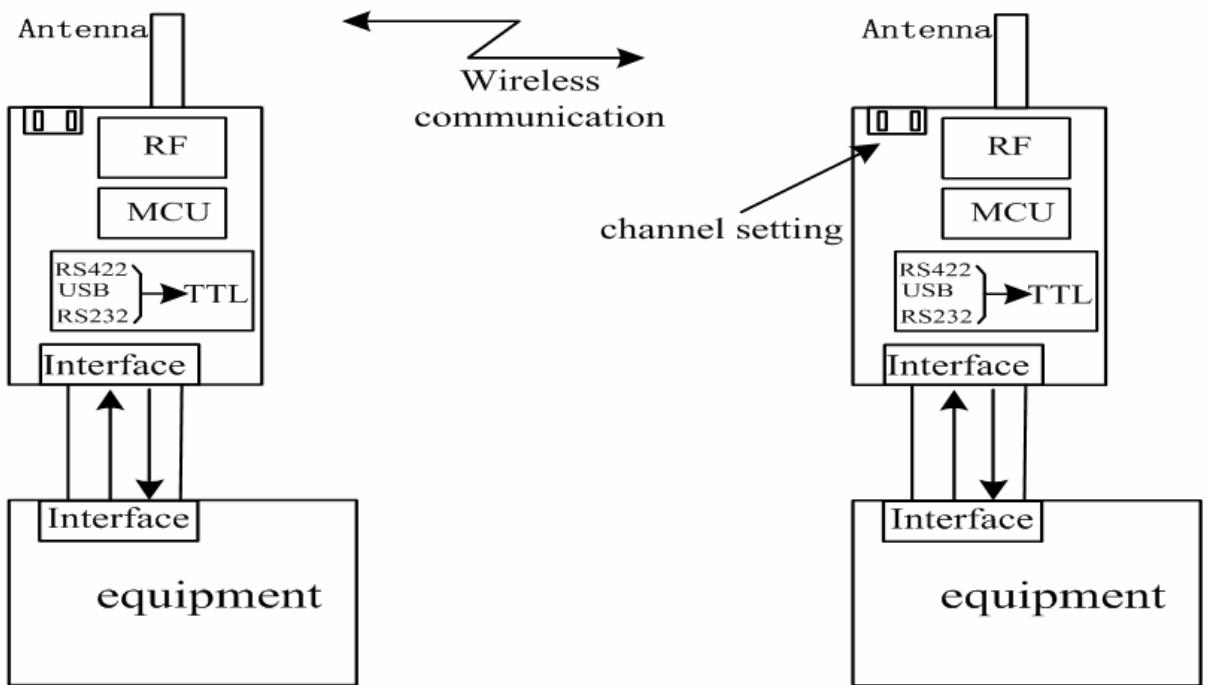


Figure4. ZF01-D wireless communication application diagram

● Channel setting

There is a channel setting switch as shown in Figure 2, defined as A,B,C respectively, so there are 8 channels can be set .

Channel	A1	A0	Freq.
0	OFF	OFF	433.050MHz
1	OFF	ON	433.640MHz
2	ON	OFF	434.410MHz
3	ON	ON	434.910MHz

Canada/FCC Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct

- **The interference by one or more of the following measures:**

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help

- **This device complies with Part 15 of FCC Rules.**

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: "Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."