

ZZQ8 New Repeater User Manual

I Summary

This is a TX/RX repeater which repeats the wireless RF signal when the distance is not enough. Put the repeater between the transmitter and receiver. They should meet the items as below.

- 1) The frequency of transmitter and repeater should be same.
- 2) Oscillating resistor should be matched with repeater.
- 3) Set repeater number while multiple repeaters are used together.
- 4) This repeater supports PT2240/1.5M(IC/OSC) learning code transmission protocol, it can pair up to 100pcs transmitters.

II Technical data

Working frequency: 315/433.92MHz

working voltage: DC12V

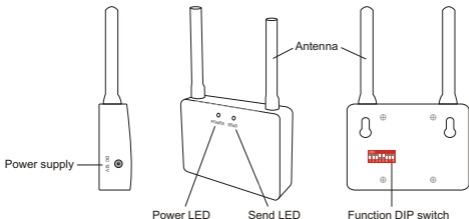
Standby current: 30mA

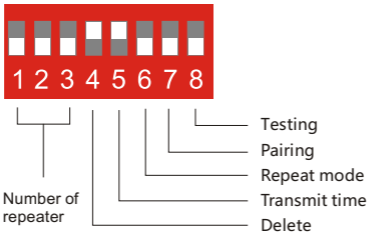
Working current: <255mA

Receiving sensitivity: -108dBm

Transmitting power: 500mW (transmitting distance is about 1500m in the open area)

III Diagram





POWER: power indication

SEND: Repeating indication, it will be on while transmitting signal.

DIP switch:

1-3: define the number of repeater from 0~6. While only need 1 repeater in the area, put the number as 0. If need 2 or more repeater in the area, should define the number of repeater, like 1, 2, 3, 4, 5, 6. When use over 1 repeater, the response time will be longer.



4: delete the paired transmitter. (available when the repeater works in on status of gang 6)

5: transmit time adjust. Off 6 sec; On 12 sec. (If the repeater is 0, the transmit time is immediately)

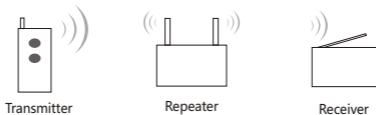
6: when it is off, all the transmitter can be repeated; if it is on, it only repeats the one which is paired.

7: Push to ON position to pair the transmitter. After pairing, push back OFF position. (the gang 6 should be on.)

8: for testing.

IV Operation

- 1) Install antenna: Please install the 2 antennas to the device when first time use. (No order)
- 2) Deploy repeater: Please put the device in the middle between transmitter and receiver and adjust well the distance according the signal of transmitter. When it is ready, please also adjust the receiver well.



Repeater working diagram

- 3) Set working mode: Connect to DV12V power supply, the POWER indicator LED will be on, the repeater goes into working status. Adjust the DIP switch to select transmitting signal.
- 4) Set the DIP switch code for different application.

Common function

① Repeat all the transmitters

While there is only one repeater used. Set the code like this. Then all the transmitter has same frequency can use this repeater to send the signal again.



② Repeat the paired transmitters

In this status, the repeater only repeat the transmitter which is paired.



When pair transmitter, switch 7 ON. And press the transmitter button. After pairing is finished, switch it off.

When delete paired transmitter, switch 4 ON, press the transmitter, then the one will be deleted.

Multiple repeaters



Note: if there are only 1 to 3 repeaters used. Push the 5 gang as OFF position. If there are 4 to 6 repeaters used. Push the 5 gang as ON position.

V Notice

- 1) Install the antenna to upwards, and do not put it near the metal things and wall.
- 2) This device is not waterproof.
- 3) If receiver cannot receive signal, please adjust distance between repeater and transmitter, up to the repeater can receive the signal from transmitter, and then adjust the receiver to the repeater.
- 4) Power supply is DC12V, output current is no less 300mA