

User Manual of ZZQ-8A Repeater

I Summary

Repeater is a TX/RX device repeating the RF signal. The RF signal should be:

- 1) Same frequency to the repeater.
- 2) Oscillating resistor should be matched with repeater.

This repeater supports PT2262/1.2M, PT2262/2.2M, PT2262/3.3M, PT2262/4.7M, PT2240/1.5M (IC/OSC), and it has learning function, up to learn 100 pcs transmitters. So it can repeater the one learned, to avoid others transmitters.

II Technical data

Working frequency: 315/433.92MHz

working voltage: DC12V

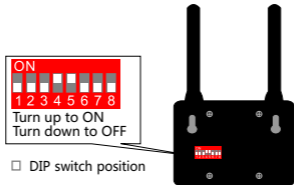
Standby current: 30mA

Working current: <255mA

Receiving sensitivity: -108dBm

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

III Diagram



POWER indicator: power indication

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

8 gang DIP switch: At the bottom of the housing, each gang has on/off status. The instructions are below:

1-gang: ON position means repeating signal of PT2262/1.2M. OFF position has no function.

2-gang: ON position means repeating signal of PT2262/2.2M or PT2240B/1.5M. OFF position has no function.

3-gang: ON position means repeating signal of PT2262/3.3M. OFF position has no function.

4-gang: ON position means repeating signal of PT2262/4.7M. OFF position has no function.

5-gang: Adjust repeating time - OFF position means 1.5s, ON position means 3~5s. (ON position is stable position. OFF position is multiple transmitters mode)

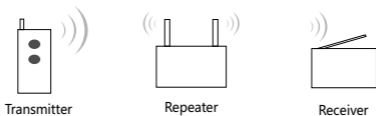
6-gang: Transmitter selection - ON position just repeats the learned transmitters (If there are more than 2 repeaters in same place, please use this function). OFF position can repeat all the signals which match with it.

7-gang: When it learns transmitter, please switch to ON position, or not, turn to OFF position.

8-gang: Testing function - Turn to ON position, the device always transmits the signal of PT2262/1.2M. When it is working normally, turn to OFF position.

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 to 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. 1 gang to 4 gang means transmitting signals. (Note: There is only 1 gang allowed to be ON position when it is working. If all the first 4 gangs are in OFF position, it repeat signal of PT2262/4.7M)

PT2262/1.2M



PT2262/2.2M
PT2240B/1.5M



PT2262/3.3M



PT2262/4.7M



- 4) Learn transmitter: Turn 6-gang, 7-gang to ON Position. Select the right regular from 1-4 gang. Then trigger the transmitter, the SEND indicator LED flick twice, it shows the learning finished. When all the transmitter learned, turn to 7-gang to ON position, this repeater works and just transmits the learned transmitter.
- 5) Delete transmitter: Before power on the device or in 15 seconds after power on. Turn 7-gang and 8-gang to ON position. The SEND indicator LED flick 3 times. All the learned transmitters are deleted.

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
- 5) Before power on this device, please make sure 7-gang and 8-gang are not in ON position at same time, or it will delete all the learned transmitters.