

## 5000M Long Range 4 Channel Bidirectional Receiver Module (Model 0020241)

### Include:

1 x Receiver Module (Model 0020241)  
1 x User manual

### Features:

Application: It can be widely used in long distance remote control system, such as factory, farm, pasture, vehicle, ship, offshore operation, aerial vehicle, wilderness call and long range security alarm, etc.

It can remote control equipments on land, water and air, such as remote control lights, sirens, locks, motors, fans, winches, blinds, linear actuators, doors, windows, electric solenoid valves, security alarm, business signs and various devices.

It uses spread spectrum communication technology to enhance anti-interference.

Ultra high receiving sensitivity, ultra long reception distance, strong anti-interference capability.

Suitable for long distance remote control and long distance communication

### Feedback function:

Can let the user know whether he/she had already connect the transmitter and receiver successfully in such a long distance.

Two-way working mode: When you press the remote control to send RF signal to the receiver, if the receiver has been successfully triggered or operated, the receiver will immediately transmit a RF feedback signal to the remote control. Then the remote control will send out a buzzing sound to inform you that the receiver has been successfully operated.

### Receiver Module Parameters:

Model No.: 0020241

Working Voltage: DC 3V~12V (5V is recommended)

Working Current: 16mA

Static Current: 5.5uA

Transmitting Current: 65mA

Working Frequency: 433.92MHZ

Modulation Method: FSK + LORA

Receiving Sensitivity: -148dBm

Working Distance: 5000M

Working Temperature: -10°C~+70°C

Size: 50mm x 20mm x 10mm

### Matching Transmitters:

This receiver module only works with 5000m transmitters, such as model CC-1 / CC-2 / CC-4, or CCW-1 / CCW-2 / CCW-4 (waterproof).

### Working Range:

Super long range, with a transmitter (such as CC-4) to form a complete set, the maximum working distance can reach 5000M on an open ground.

The maximum working distance is a theoretical data; it shall be operated in an open ground, no barriers, no any interference. But in the practice, it will be hindered by trees, walls or other constructions, and will be interfered by other wireless signals. Therefore, the actual distance may not reach this maximum working distance.

### Usage:

The receiver module can be used to control DC 3~12V circuits or equipments.

### Setting Different Control Modes:

We have set the receiver module as Toggle control mode before delivery. If you want to use other control modes, do as following operation:

Setting control mode Toggle: Turn on the first bit of the dip switch.

Control mode Toggle (with transmitter CC-4): Press -> On, Press again-> Off.

Press button A of the transmitter: The pin "D3" outputs DC power; Press button A again: The pin "D3" stops outputting.

Press button B of the transmitter: The pin "D2" outputs DC power; Press button B again: The pin "D2" stops outputting.

Press button C of the transmitter: The pin "D1" outputs DC power; Press button C again: The pin "D1" stops outputting.

Press button D of the transmitter: The pin "D0" outputs DC power; Press button D again: The pin "D0" stops outputting.

Setting control mode Momentary: Turn on the first and the second bits of the dip switch.

Control mode Momentary (with transmitter CC-4): Press and hold -> On, Release -> Off.

Press and hold button A of the transmitter: The pin "D3" outputs DC power; Release button A: The pin "D3" stops outputting.

Press and hold button B of the transmitter: The pin "D2" outputs DC power; Release button B: The pin "D2" stops outputting.

Press and hold button C of the transmitter: The pin "D1" outputs DC power; Release button C: The pin "D1" stops outputting.

Press and hold button D of the transmitter: The pin "D0" outputs DC power; Release button D: The pin "D0" stops outputting.

Setting control mode Latched: Turn on the second bit of the dip switch.

Control mode Latched (with transmitter CC-4): Press -> On, Press another button -> Off.

Press button A of the transmitter: The pin "D3" outputs DC power, and other 3 pins stop outputting.

Press button B of the transmitter: The pin "D2" outputs DC power, and other 3 pins stop outputting.

Press button C of the transmitter: The pin "D1" outputs DC power, and other 3 pins stop outputting.

Press button D of the transmitter: The pin "D0" outputs DC power, and other 3 pins stop outputting.

**How to pair the transmitter to the receiver module:**

- 1) Press the learning button of receiver model for 1~2 seconds; signal LED on the receiver is on. The receiver module enters into status of LEARNING.
- 2) Press any one button on transmitter in 5 seconds, if signal LED flashes twice, it means learning is successful.
- 3) The receiver module can learn several transmitters with different codes.

**Delete all transmitters:**

We have learned remote control to the receiver module. If you don't want the receiver module to work with the remote control, you can delete all codes of remote controls, which are stored in the receiver module.

Operation: Press and hold the button of receiver until signal LED flashes three times. That means all stored codes have been deleted successfully.

**Setting feedback function:**

If you want to have a feedback function: Turn on the third bit of the dip switch.

When the receiver gets the signal of transmitter, it will immediately send a return signal to the transmitter. When the transmitter receive the feedback signal of the receiver, the transmitter will exude a buzzing sound like "D~" which means it receive the feedback signal successfully.

**Instruction of pins:**

Pins	Function
D0	Data output (DC power output)
D1	Data output (DC power output)
D2	Data output (DC power output)
D3	Data output (DC power output)
GND	Negative power supply
Null	Null
VCC	Positive power supply

