

Product Introduction:

The product superheterodyne wireless receiver module with decoding and learning code functions is a cost-effective receiver module operating in the ISM frequency band. Boasting high receiving sensitivity and a low price, it allows some low-end products to break free from the limitation of only being able to use super-regenerative modules due to cost factors. This not only enhances the stability and reliability of low-end wireless products but also improves their quality and image, thereby strengthening their market competitiveness.

It can realize wireless signal input and data signal output without any external circuits. Equipped with a built-in data decoding circuit, it enables easy development of wireless products. The output modes (momentary, self-locking, and interlocking) are adjustable to meet the needs of different users. It matches remote controllers through a code-pairing method and can be programmed to work with remote controllers using multiple chips such as 2260, 2262, 2240, and 1527, ensuring convenient compatibility.

Product Features:

(1) The receiving sensitivity reaches -110 dBm.; (2) Working frequency: 434.025 MHz;(Special frequencies can be customized according to customer requirements.)

(3) Power supply voltage input range: 12V

(4) With excellent selectivity and spurious radiation suppression capabilities, it can easily meet the requirements of international certifications such as CE and FCC.;

(5) It has good local oscillator radiation suppression capabilities, allowing multiple receiver modules to operate together (i.e., one transmitter with multiple receivers) without mutual interference. The receiving distance remains unaffected when used in tandem.

(6) Temperature range: -30°C to 85°C; it can work normally even in harsh ambient temperatures.

1.The default mode (with T2 and T1 left floating) is the jog mode. When a valid signal is input, the corresponding output signal will be generated; once the valid signal ceases, the output will automatically stop.

On the back of the board (with T2 grounded and T1 left floating), it is in the self-locking mode. When a valid signal is input, the state of the corresponding output signal flips: if it was previously outputting a high level, it will switch to a low level, and vice versa.

3. On the back of the board (with T2 left floating and T1 grounded), it is in the interlocking mode. When a valid signal is input, the corresponding output signal is activated while others are turned off.

Signal indication: When a valid signal is input, VT outputs a high level; once the valid signal disappears, VT outputs a low level.

Code pairing method:

Press and hold the learning button for 2 seconds until the learning indicator light flashes once, indicating that it has entered the learning state. Release the learning button, then press any key on the remote control; the indicator light will flash 4 times to confirm successful learning, and the device will exit the learning mode.

Code clearing method:

Press and hold the learning button continuously; the indicator light will stay on. Keep holding it for about 8 seconds until the indicator light goes off, indicating that all codes have been successfully cleared.

Applications:

- (1) Car remote door switches (RKE);
- (2) Remote-controlled door openers;
- (3) Wireless security alarms;
- (4) Remote-controlled curtain machines;
- (5) Wireless industrial controllers;
- (6) Wireless data transmission.



This remote control is an outstanding model in our company's remote control series. It features high electromagnetic conversion efficiency, strong transmission power, and low power consumption. It adopts a surface acoustic wave (SAW) device for frequency stabilization and a 6.5G ultra-high frequency triode. There is a wide variety of encoding chips available, which can meet applications in various fields and at different levels.

Application:

Car and motorcycle anti-theft devices;

Home anti-theft alarms;

Various remote control applications, such as electric curtains, roller shutters, and parking lot barrier control;

Parameters:

1. working voltage: 12V23A battery
 2. working current: $\leq 9\text{mA}$
 3. Oscillation mode: SAW resonance
 4. Oscillation resistors: 4.7M, 3.3M, 330K
 5. Working Frequency: 433MHz Band
 6. Modulation mode: ASK
 7. Frequency deviation: $\pm 150\text{kHz}$ (max)
 8. Coding methods: soldering code, learning code
 9. Chip models:
PT2262, PT2264 (fixed code);
EV1527, PT2240 (learning code)
- Transmitting power: 15mW

Performance characteristics:

1. There are 4 button options available, namely 1-button, 2-button, 3-button, and 4-button.
2. High stability, adopting imported SMT (Surface Mount Technology) components, surface acoustic wave resonator (SAW) for frequency stabilization, and a 6.5G ultra-high frequency triode.
3. A variety of encoding chips and shell colors are available for selection.

CAUTION: 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.

CAUTION: This device complies with part 15 of the 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.

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 the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses 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.

RF exposure compliance statement:

This device has been evaluated to meet the general RF exposure requirement