深圳市创新星电子科技有限公司
SHENZHEN CNS ELECTRONIC TECH CO., LTD

Receiver module with decoding：
CNS-RXC6

Datasheets V5.2

①**Strong anti-interference**

②**Built-in automatic gain circuit**

③**Working frequency at 315/433.92MHZ**

④**Receiving structure is super outlier mode**

Catalog

【Product Description】

CNS-RXC6 super outlier with decoding learning code wireless receiver module, is a cost-effective ISM band receiver module. With high receiving sensitivity and low price, some low-end products can get rid of the restriction that only super regenerative modules can be used because of the price, improving the stability and reliability of low-end wireless products, improving the quality and image of the product to strengthen the competitiveness of the product. No need to add any circuit that can do wireless signal input to data signal output. With its own data decoding circuit, it can easily realize the development of wireless products. The output mode is adjustable for pointing, self-locking and interlocking, which can be used by different users. Adopt the pair of codes to match with the remote control, can be recorded into the 2260, 2262, 2240, 2264.1527 and other multi-chip remote control, matching convenient.

【Product Features】

（1） Receiving sensitivity up to -107dBm.
（2） Operating frequency: 315MHz; 433.92MHz; 330MHz; 390MHz; 418MHz (special frequency can be customized according to customer requirements).
（3） Power supply voltage input range: 3.3V-5.5V.
（4） Low power consumption, 5.0V@433.92MHz,3.8-4.1mA; 5.0V@315MHz, 2.5-2.8mA; sustained data transfer rate up to 2.4K (Manchester encoding).
（5） Good selectivity and spurious radiation suppression, certified by international standards CE, Fcc and Rohs.
（6） Good local oscillation radiation suppression capability, multiple receiver modules can work together (i.e. single transmitter multiple receiver) and will not interfere with each other, used together does not affect the receiving distance.
（7） Temperature range: -40-85℃, even in the harsh ambient temperature can also work normally.

【Product Physical Picture】
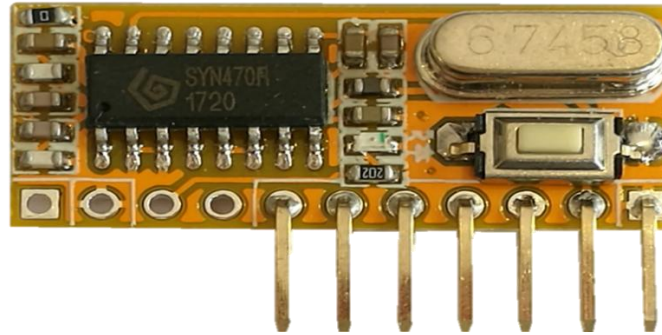
【Application Scope】

（1）Remote control door switches (RKE) for automobiles.

（2）Remote door opener.

（3）Wireless security alarm.

（4）Remote control curtain machine.

（5）Wireless industrial controller.

（6）Wireless data transmission, etc.

【Product Footprint Description】
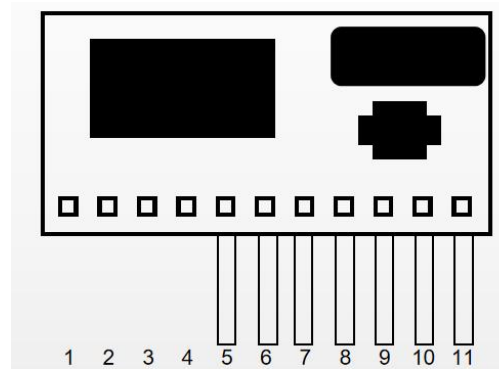
Foot Position	Name	Function Description
1	ANT	Antenna
2	GND	Power Ground
3	LED	External Indicator
4	SW	External Learning Keys
5	VT	Remote Control Signal Indication, will flash when remote control signal is received
6	D0	Data Output
7	D1	Data Output
8	D2	Data Output
9	D3	Data Output
10	VDD	Power Positive
11	GND	Power Ground

【Electrical Parameters】

（1）Power supply 5V Temperature 25℃ Frequency 315MHz Test under test conditions

Parameter	Symbol	Status	Reference			Unit
			Min	Standard	Max	
Operating Frequency	Fc		314.90	315.00	315.10	MHz
Modulation Method				ASK		
Receiving Sensitivity		50 Ohm antenna direct input /1K Kbps		-107		dBm
Receive Broadband				200		KHz
Receive Open Time	Ton				9	ms
Working Voltage			3.3	5.0	5.75	V
Operating Current	IRC		2.5	2.5	2.7	mA
Mirror Frequency Rejection		313.28MHz		20		dB
Decoding Output Maximum Voltage		RL=500K	3.5		5.0	V
Decoding Output Minimum Voltage					0.5	V
Operating Temperature			-30		+85	℃

（2）Power supply 5V Temperature 25℃ Frequency 433.92MHz Test under test conditions

Parameter	Symbol	Status	Reference			Unit
			Min	Standard	Max	
Operating Frequency	Fc		433.82	433.92	434.02	MHz
Modulation Method				ASK		
Receiving Sensitivity		50 Ohm antenna direct input /1K Kbps		−107		dBm
Receive Broadband				200		KHz
Receive Open Time	Ton				9	ms
Working Voltage			3.3	5.0	5.75	V
Operating Current	IRC		3.8	3.9	4.1	mA
Mirror Frequency Rejection		313.28MHz		20		dB
Decoding Output Maximum Voltage		RL=500K	2.8	3.75	5.0	V
Decoding Output Minimum Voltage					0.5	V
Operating Temperature			−30		+85	℃

【Code Matching Method】

(1) Default (T2, T1 overhang) is the pointing mode, there is a valid signal input, the corresponding output signal has output, after the valid signal is not automatically stop output.

(2) Back of the board (T2 grounded, T1 overhanging) is self-locking mode, there is a valid signal input, the corresponding output signal state flip, before the output high level becomes low level, and vice versa.

(3) Back side of the board (T2 overhanging, T1 grounded) is interlocked mode, there is a valid signal input, the corresponding output signal has output, the other is off. Signal indication; when there is a valid signal input, VT output high level, after the valid signal disappears VT is output low level

Coding PT2262 10 pins,EV1527 5 pins Corresponding to decoding output D0 Coding PT2262 11 pins,EV1527 6 pins Corresponding to decoding output D1

Coding PT2262 pin 12,EV1527 pin 7 corresponds to decoding output D2 Coding PT2262 pin 13,EV1527 pin 8 corresponds to decoding output D3

【Clear Code Method】

Press and hold the learning key, the indicator light will always be on, press and hold for about 8 seconds and then the indicator light will go off, indicating that the code has been cleared successfully.

【Module Description】

Module Name Explanation: CNS-RXC6-315M

RX: Represents the meaning of receiving

C: Represents the version number of the module

6: Represents the chip used in the module

315M: Represents the operating frequency of the module is 315MHz

创新星（CNS）始终致力于为客户提供高价值解决方案

与上下游伙伴建立长期共赢战略合作关系

追求可持续发展，创造并共享社会价值

深入行业**10年**，覆盖全球**22个**国家，服务**998家**品牌客户

联系我们

联系电话：13312900908
公司地址：深圳市福田区振华路海外装饰大厦 A 座 1151
工厂地址：深圳市龙华区观澜福前路梁相工业区 D 栋 2 楼