

ASK Superheterodyne Wireless Receiving Module

RCT01SRXB06 is Superheterodyne Wireless Receiving Module with high performance for ISM frequency band, With the adoption of European brand RF wireless data transferring/ receiver chipsets, that the model has a high receiving sensitivity and strong ability of resisting. From wireless signal input to data output can be done without any electrical circuit. User only extra simple data decode circuit can achieve wireless products development.



Product Key Features:

- (1) Receiving sensitivity: -112dBm
- (2) Frequency: 315 MHz; 433 MHz; 868 MHz; 915 MHz (others are available)
- (3) Power voltage: 3V-5.5V;
- (4) Low power consumption, 3.3V @ 433.92MHz, 6.0mA / 3.3V @ 315MHz, 4.8mA;
- (5) The speed of data transmission : 10Kbps (Manchester coding)
- (6) The power consumption is 50nA (the power enable model)
- (7) RSSI signal intensity simulative level output
- (8) Good selectivity and inhibition of stray radiation, easy to get CE/Fcc.
- (9) Good inhibition of LO radiation, multiple receiving module can work with together without interference .
- (10) Operation temperature: -40-85°C

Application:

- | | |
|---|---------------------|
| (1) Remote keyless entry (RKE) ; | (2) Gate openers; |
| (3) Wireless alarm and security system; | (4) window openers; |

RCT01SRXB06

(5) Wireless industry controller

(6) Transmitting Data Wirelessly

Pin assignment and size:

| PIN NO. | NAME | Fuction |
|---------|-------|---|
| 1 | ANT | Antenna Input |
| 2 | GND | Ground |
| 3 | GND | Ground |
| 4 | VDD | Positive Supply Power |
| 5 | VDD | Positive Supply Power |
| 6 | R/E/D | Option: 1.Instruction of signal intensity; 2.Instruction of Power Enable mode;3.D data output |
| 7 | DATA | Data out |
| 8 | GND | Ground |

Electrical Characteristics:

Under the testing conditions as follows:

POWER:3V Tempeture: 25°C Frequency:315MHz

| Characteristics | Symbol | Status | Reference Value | | | UNIT |
|---------------------|--------|------------------------------|-----------------|----------|---------|------|
| | | | Minimum | Standard | Maximum | |
| Working Frequency | Fc | | 314.90 | 315.00 | 315.10 | MHz |
| Modulation | | | ASK | | | |
| Receiver Sentivity | | 500ohm antenna input/1K Kbps | | -110 | | dBm |
| Receiving Bandwidth | | | | 200 | | KHz |
| Receie on-time | Ton | | | | 9 | ms |
| Working Current | IRC | | 3.0 | 3.9 | 4.2 | mA |
| Image Rejection | | 313.28MHz | | 40 | | dB |

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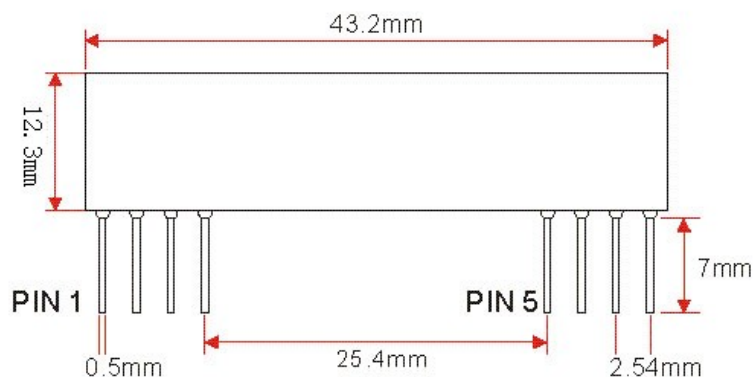
| | | | | | | |
|---------------------------------|--|---------|-----|--|-----|----|
| Decoding output maximum voltage | | RL=500K | 2.8 | | | V |
| Decoding output minimum voltage | | | | | 0.5 | V |
| Working Temperature | | | -40 | | +85 | °C |

Under the testing conditions as follows:

Power supply:3V temperature 25°C frequency: 433.92MHz

| Characteristics | Symbol | Status | Reference Value | | | UNIT |
|---------------------------------|--------|--|-----------------|----------|---------|------|
| | | | Minimum | Standard | Maximum | |
| Working Frequency | Fc | | 433.82 | 433.92 | 434.02 | MHz |
| Modulation | | | ASK | | | |
| Receiver Sensitivity | | 50 ohm antenna input directly /1K Kbps | | -112 | | dBm |
| Receiving Bandwidth | | | | 200 | | KHz |
| Receive on-time | Ton | | | | 9 | ms |
| Working Voltage | | | 3.0 | 3.0 | 3.6 | V |
| Working Current | IRC | | 3.0 | 3.9 | 4.2 | mA |
| Image Rejection | | 432.2MHz | | -40 | | dB |
| Decoding output maximum voltage | | RL=500K | 2.8 | | | V |
| Decoding output minimum voltage | | | | | 0.5 | V |
| Working Temperature | | | -40 | | +85 | °C |

Package:



Module Name explanation: RCT01SRXB06-315M

RX. Represents the meaning of receiving

B. Represents of the version number of the module

6. Represents the Chips used in the module

315M. Represents the frequency is 315MHz module

Please Note:

RCT01SRXB06 module data output pin of the drive current is weak, if it used to direct-drive the MCU, the I/O port of the MCU can't connect with pull-up or pull-down resistor . The pull-up and pull-down resistors inside the MCU must be set on disable mode too.