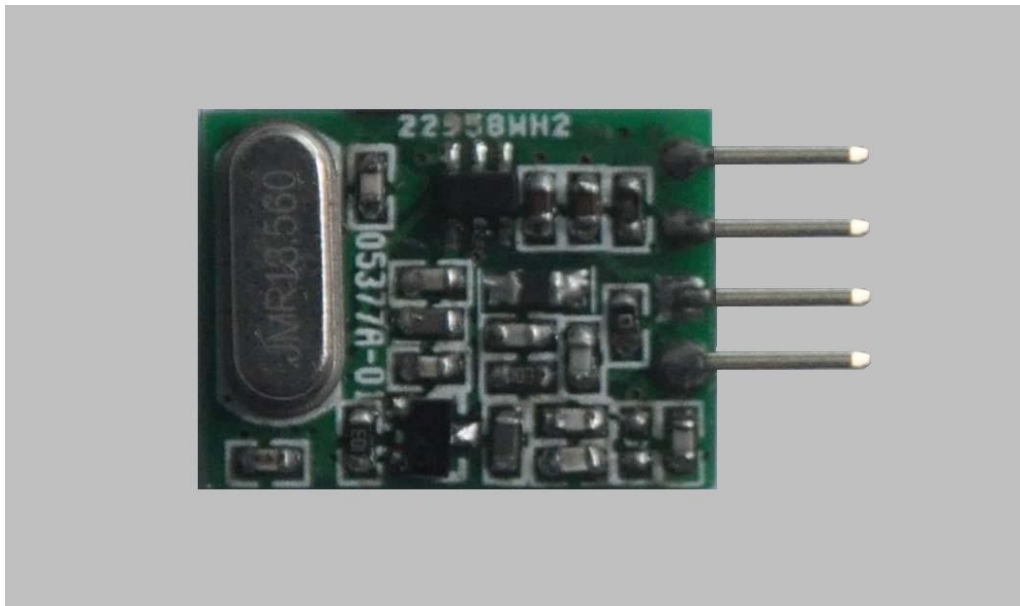


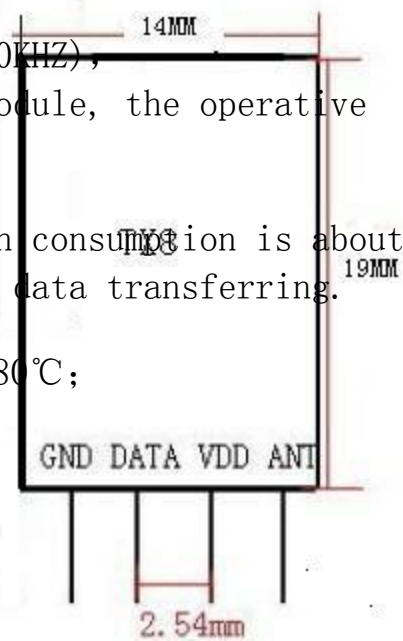
## ASK radio transmitter module

RCT02STX8 ASK radio transmitter module is a superior performance transmitter module for ISM band. With the adoption of European brand RF wireless data transferring/receiver chipsets, it has advantage at strong transmission power, low voltage power supplying, easily through the Fcc/CE authentication. It can do wireless signal input to the data signal output without any external circuit. Users only need to decode the data plus a simple circuit and then any wireless products development can be easily achieved.



### Features:

- (1) Bigger transmit power, more than 40mW;
- (2) Wide operation voltage range, 1.8 V-3.6V;
- (3) Operation frequency: 315 MHz; 433 MHz;
- (4) Adoption of PLL steady frequency ( $\pm 50\text{KHz}$ );
- (5) in cooperation with RXB8 receiving module, the operative distance can be 500m;
- (6) Lower static current and transmission consumption is about 20mA, nearly no current consumption if no data transferring.
- (7) Operation temperature range:  $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ ;



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- (8) Dimension: 11x16x5.5MM;
  - (9) Frequency stability:  $\pm 50$  KHZ
  - (10) Modulation rate: 3KB/S
  - (11) Input signal: TTL level

**Applications:**

- (1) Remote keyless entry (RKE) ;
- (2) Remote door-open machine, barrier gate
- (3) Wireless security alarm;
- (4) Remote control curtains;
- (5) Wireless industrial controller;
- (6) Wireless data transmission;

**Product Pin Description**

| Pin | Name | Function Explanation  |
|-----|------|-----------------------|
| 1   | GND  | Power Ground          |
| 2   | DATA | Data Input            |
| 3   | VDD  | Positive Power Supply |
| 4   | ANT  | Antenna Input         |

**Electrical parameters:**

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VDD-GDN 1.8V-3.6V TA-25°

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| Parameters                  | Symbol         | Status  | Reference Value |         |         | Unit |
|-----------------------------|----------------|---------|-----------------|---------|---------|------|
|                             |                |         | Minimum         | Typical | Maximum |      |
| Operation frequency         | F <sub>c</sub> |         | 315             |         | 433.92  | MHz  |
| Modulation                  |                |         | ASK             |         |         |      |
| Transmission power          |                | 3V/50 Ω |                 | 17dBm   |         | dBm  |
| Modulation frequency        |                |         |                 | 2.4K    |         | Hz   |
| Frequency accuracy          | F <sub>c</sub> |         |                 | ±50K    |         | Hz   |
| power consumption           | IRC            |         |                 |         | 20      | mA   |
| Operation voltage           | VCC            |         | 1.8             |         | 3.6     | V    |
| Operation temperature range | TC             |         | -40             |         | +85     | °C   |

### Module Name explanation: RCT02STX8-315M

RCT02STX8.- Represents the meaning of transmission

315M.- Represents the frequency is 315MHz module