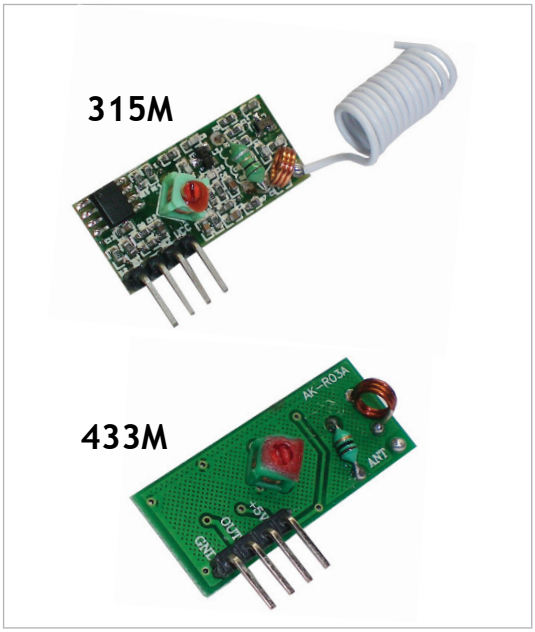
315M/433M Wireless Super-Regenerative Receiver Module

FEATURES

Super-regenerative receiver module adopt LC oscillator circuit, it contains amplify and reshape, the output data signal is TTL level, directly to the decoder is extremely easy to use and the price is competitive, so it's widely used. The product has smaller size, high sensitivity, frequency debugging easier, shorter lead times, good consistency and cost-effective. It is currently the largest amount and most widely used wireless high-frequency receiver module in the remote control market.

Receiver module has a wide bandwidth of the receiver, typically ±10MHz, the standard frequency is usually at 315MHz or 433.92MHz (this frequency could be adjusted according to customer's special requirements, and the range is from 266MHz to 433MHz).

DC5V power supply is commonly used to receive module. The voltage could be also adjusted from 3~8V according to customer's requirements.
The receiving module's quiescent current is usually 4mA, and the quiescent current could be adjusted according to customer's special requirements. The minimum current is 1.5mA, but the receiver sensitivity will be reduced. The output of receiving module is noisy output. Noise output can be replaced by no noise output under the special requirement, but the receiver sensitivity will be reduced.



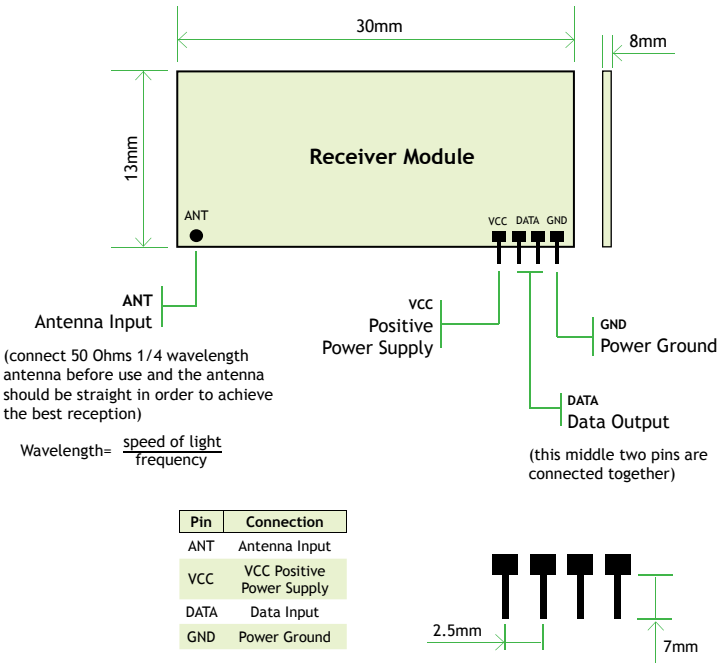
APPLICATION ENVIRONMENT

- Wireless remote control switch
- Remote control socket
- Data transmission
- Remote Control Toys
- Anti-theft alarm system and so on

ELECTRICAL SPECIFICATION

Frequency	315/433MHz
Operating Voltage	5VDC
Quiescent Current	4mA
Signal Mode	ASK
Receiver Sensitivity	-108dBm
Data Bandwidth	2~3Kbps
Operating Temperature	-20°C to +85°C
Size (LxWxH)	30x13x8mm

PIN Assignment and Size



Pin	Connection
ANT	Antenna Input
VCC	VCC Positive Power Supply
DATA	Data Input
GND	Power Ground

REMARK

- VCC voltage is consistent with the module voltage and must be sure of power's filtering.
- Antenna is a great influence for module on reception.
  Best to take 1/4 wavelength antenna, generally use 50 Ohms single-core wire.
  The antenna is about 23cm in length for 315MHz and 17cm for 433MHz.
  The location of the antenna is also affected on Module's reception.
  Install the antenna straigth and stretched as far as possible, away from the shield, high pressure, and were the source of interference.
- Receiving frequency, decoding and vibration resistance should be matched with the emission in used.

OPTIONAL ACCESSORIES

With the launched series, supporting the use of remote control products

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