



Data Sheet

RX480RA

ASK/OOK receiver module

Version 1.0

1. Product Description.....	3
2. Product Feature.....	4
3. Application Field	5
4. Pin definition	5
5. Electrical Characteristics	6
6. Module Dimension.....	7

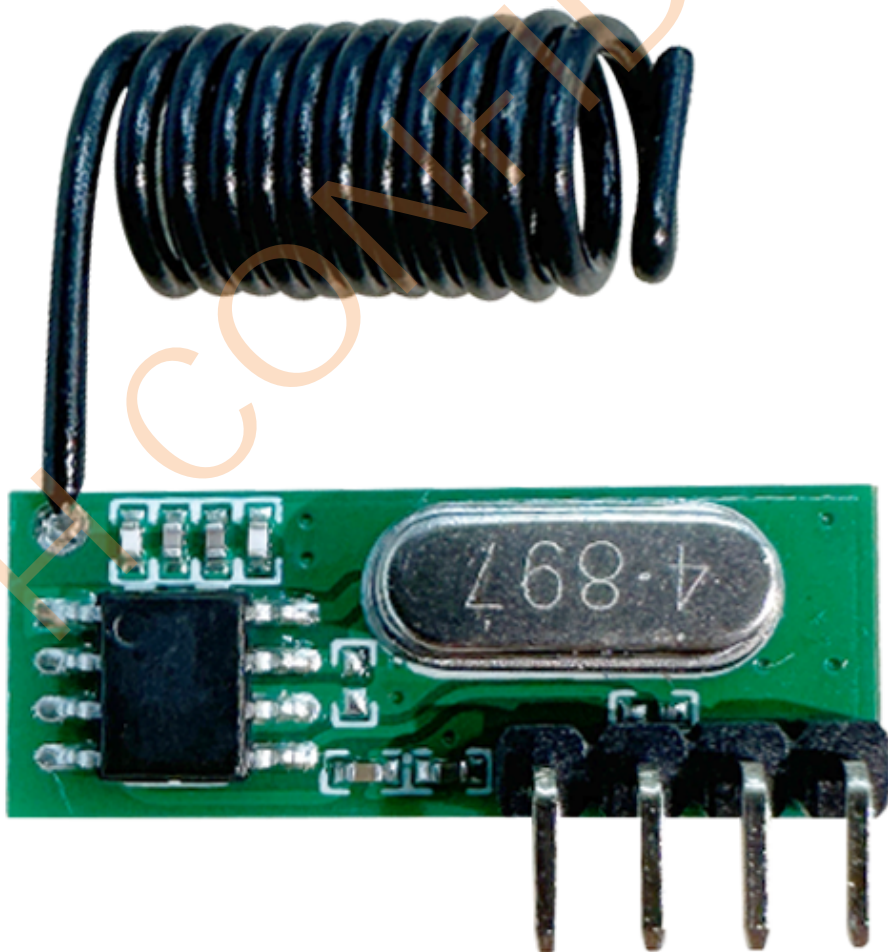
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1.Product description

RX480RA is a high-quality superheterodyne band decoding receiver module for ISM band wireless data transmission. The module adopts ultra high frequency wireless communication technology,

RX480RA has excellent anti-interference and high reliability, and it got the best working distance even in the situation of complex interference environment.

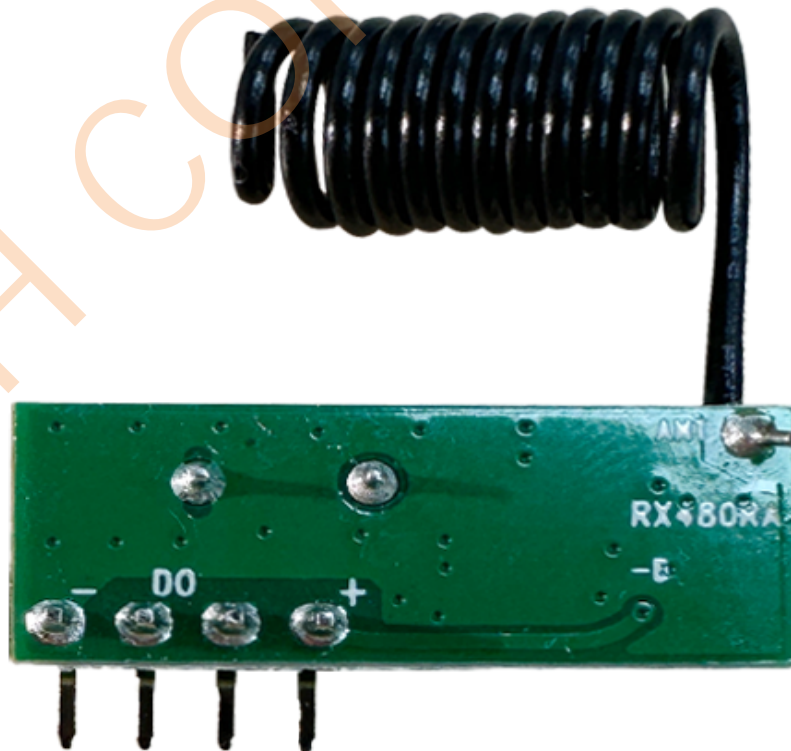
Module with Antenna,and out COMS/TTL data, plug and play.





2. Product Features

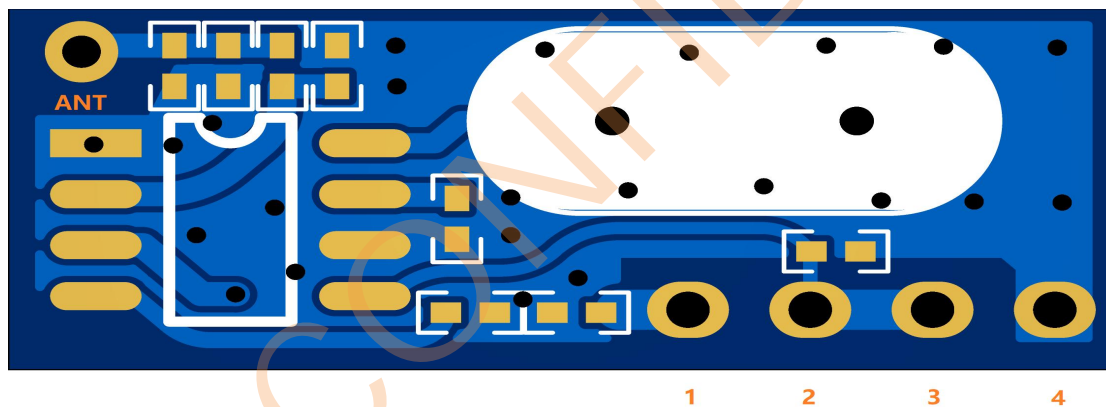
- (1) Receiving sensitivity : -115dBm;
- (2) Working frequency: 315MHz; 433.92MHz; (special frequency can be customized according to customer requirements)
- (3) Power supply range: 2.5V-5.5V;
- (4) Comply with FCC and ETSI;
- (5) Excellent Anti-interference ability;
- (6) Data Rate: 1-5kbps
- (7) Low power consumption, 5V/5.9mA@433M, 5V/5.5mA@315M;
- (8) Temperature range: -20-70 ° C.



3. Application field

- (1) Remote keyless entry(RKE);
- (2) Remote control doorbell;
- (3) Wireless security alarm;
- (4) Remote control home appliances;
- (5) Wireless industrial controller;
- (6) Wireless Lighting Control.

4. Pin definition



Pin	Name	Function
1	VDD	Positive power
2	DO	Data output
3	DO	Data output
4	GND	Ground

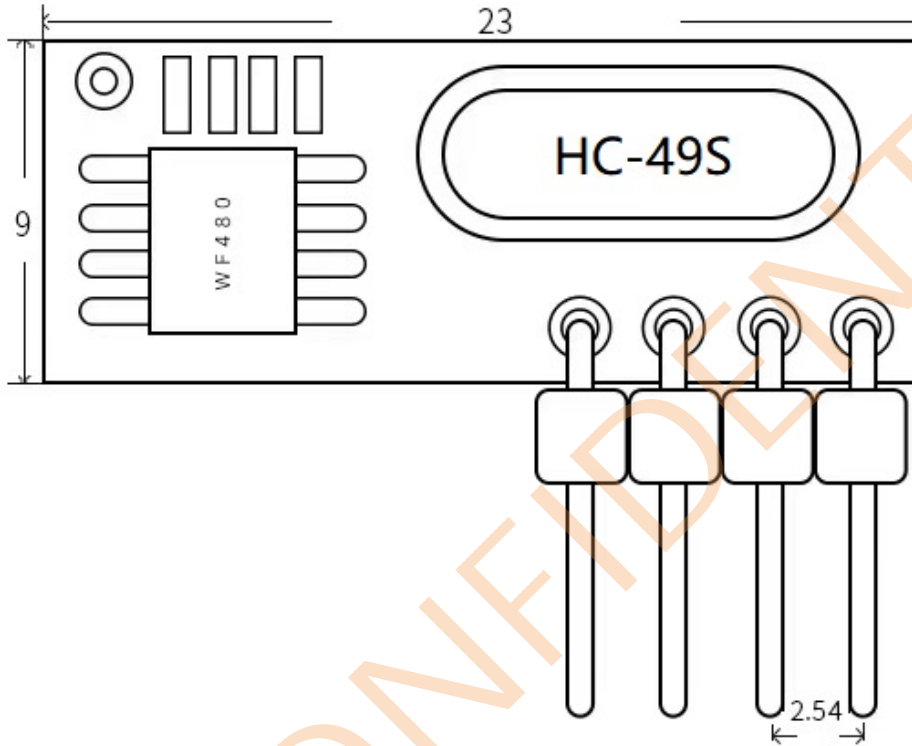
5. Electrical Characteristics

Nominal conditions: VDD= 5V temperature =25

Parameters	Symbol	Status	Reference value			unit
			min	standard	max	
Operating frequency	Fc		314.90	315.00	315.10	MHz
Modulation method			ASK			
Receiver sensitivity		500hm antenna direct input/1K Kbps		-115		dBm
Receive bandwidth				200		KHz
Operating voltage			3.0	5.0	5.5	V
Operating current	IRC				5.5	mA
Decode output max. voltage		RL=500K	2.8	3.75	5	V
Decode Output Min Voltage					0.5	V
Operating temperature			-20		+70	°C

Parameters	Symbol	Status	Reference value			unit
			min	standard	max	
Operating frequency	Fc		433.82	433.92	434.02	MHz
Modulation method			ASK			
Receiver sensitivity		500hm antenna direct input/1K Kbps		-115		dBm
Receive bandwidth				200		KHz
Operating voltage			3.0	5.0	5.5	V
Operating current	IRC				5.9	mA
Decode output max. voltage		RL=500K	2.8	3.75	5	V
Decode Output Min Voltage					0.5	V
Operating temperature			-20		+70	°C

6. Module dimension



unit : mm