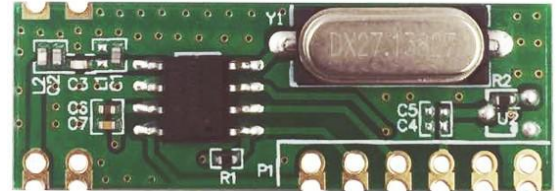

RFM210LBW OOK Wireless Receiver Module

1. Brief introduction

RFM210LBW is a OOK wireless data Receiver , ultra low power consumption, high sensitivity, long distance communication, cost-effective RF receiver module, suitable for ISM band wireless applications.

It has the characteristics of good anti-interference and high reliability, and it can not affect the working distance even in the situation of complex interference environment.

The Module is provided by frequency 315MHz and 433.92MHz, both support 1~5kbps data rate.



RFM210LBW

2. Features

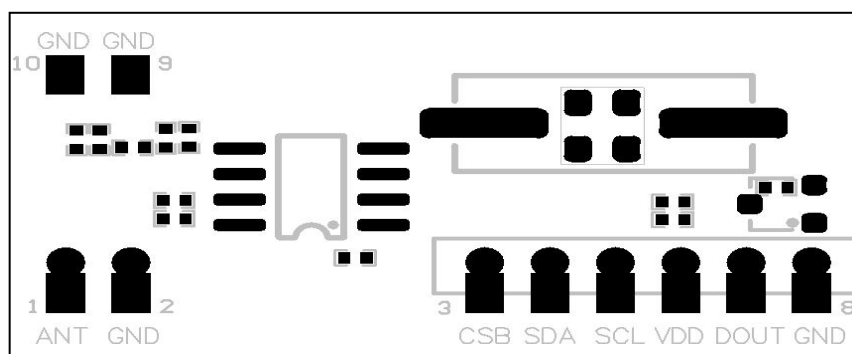
- Comply with FCC and ETSI
- Strong anti-interference ability, suitable for complex interference environment
- Receiving Sensitivity: -113dBm
- Working Frequency: 315MHz, 433.92MHz
- Supply Voltage Range: 1.8V-3.6V
- Working Current: 3.8mA
- Sleeping Current: $\leq 1\mu\text{A}$
- Data Rate: 0.1-40 kbps
- Configurable Duty-Cycle operation mode

3. Application

- Remote Entrance Guard
- Battery Car Security System
- Remote Socket
- Remote Doorbell
- Wireless Data Transmission
- Wireless Lighting Control
- Remote Control Toys
- Remote Control Home Appliances
- Wireless Alarm & Security System

4.Pins out

RFM210LBW



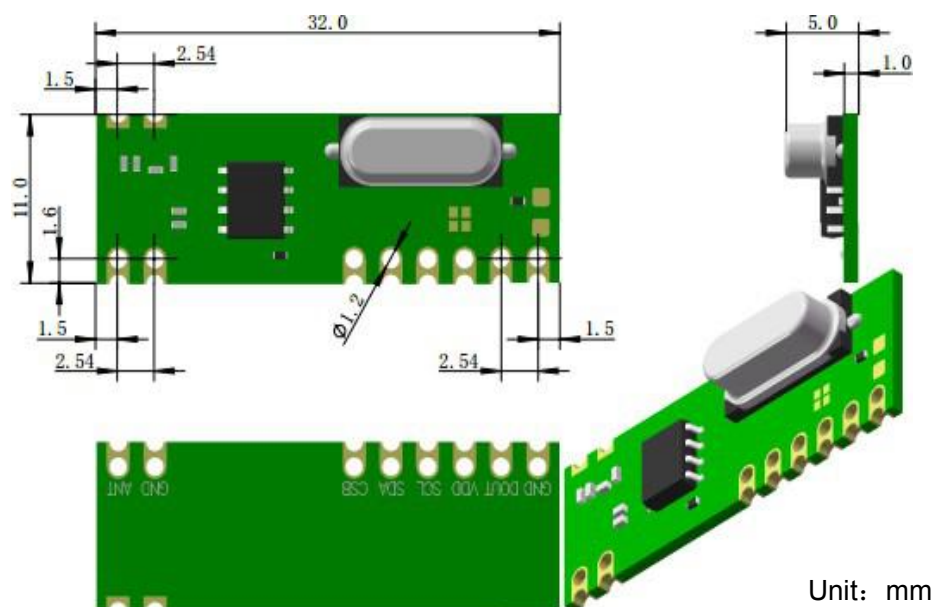
Pin	Name	Function
1	ANT	Antenna Input
2	GND	Ground
3	CSB	3-Wire SPI chip select input and output for EEPROM programming
4	SDA	3-Wire SPI data input and output for EEPROM programming
5	SCL	3-Wire SPI clock
6	VDD	Positive power
7	DATA	Data Output
8,9,10	GND	Ground

5. Electrical Specifications

Testing Conditions: DC 3.3V / 25°C

Parameter	Label	Status	MIN.	Typical Value	MAX.	Unit
Frequency Range	Fc	Model: RFM210LBW-315S1		315		MHz
		Model: RFM210LBW-433S1		433.92		MHz
Modulation	MOD		OOK			
Sensitivity	S	1 Kbps		-113		dBm
Data Rate	DR		0.1	2.4	40	Kbps
Receiver Bandwidth	BW		50	200		KHz
Supply Voltage	VDD		1.8	3.3	3.6	V
Working Current	Iop	433.92MHZ		3.8		mA
Sleeping Current	Isleep				1	uA
Image Rejection	IMR			30		dB
Working Temperature	Top		-40		+85	°C

6. Dimensions Diagram



RFM210LBW

7. Order infomation

Module	Frequency	Voltage
RFM210LBW-315S1	315MHz	1.8-3.6V
RFM210LBW-433S1	433.92MHz	1.8-3.6V

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