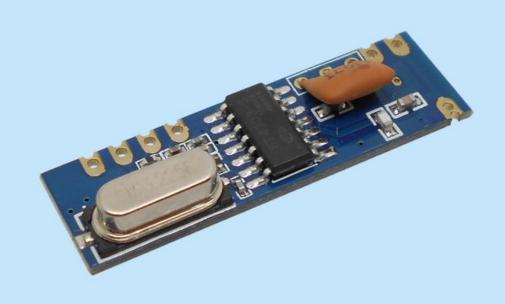


Micropower Superheterodyne Receiver

Product Specification





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Remark: History

Version	Time	RE	Modify	RF	, ceRt	RE
V1.0	2015-11	GANTA	First release	G.Tille	G-Me	G-Miles
V2.0	2016-4		Modify some errors	5		
V2.1	2017-6	,RF	Logo updated	RF	æ	RF
G.Wite	G.Nita	G-Nice.	G.Alice	G.Nice	Child	G.Micc
a¥	28	30	28	30	30	ar.



1. Description

SRX882 is a low cost superheterodyne receiver module with low current consumption. It works well with our ASK transmitter STX882. It complies with the certification of ROHS, FCC, ETSI and CE. The module is easy to use and can be connected to the micro controller directly.

2. Feature

- Frequency Range: 433/315 MHz
- Super heterodyne modulation
- High sensitivity

3. Application

- Wireless door bell
- wireless security alarm

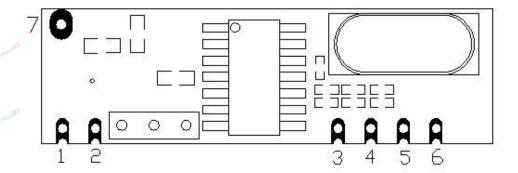
- Standby mode current < 1uA
- Comply with ROHS,FCC,ETSI,CE
- High stability in varies environment
- wireless industrial control
- wireless data transmission

4. Electrical Specifications

Parameter	Min	TP	Max	Unit	Condition		
Operation conditions							
Supply Voltage	2.4	3 _k r	5.5 _{GARGE}	« V	G.Nice R F	G-Nice R F	G.Nice R F
Operating Temperature Range	-30		80	$^{\circ}$			
L Saften ov Garleett		G.NiceRF	20 _{G-Miles}	s ms	G-Nice R F	@315MHZ	G-Nice RF
Latency			9	ms		@433MHZ	
Current consumption							
		2.7		mA		@315MHZ	
Consuming current		2.9	G.Nice	™A	G-Nice RF	@433MHZ	G-Nice RF
		<2		uA		@CS=0	
RF parameters							
Francisco Dance	433.82	433.92	434.02	MHZ		@433MHZ	
Frequency Range	314.9	315	315.1	MHZ	G-Nice R F	@315MHZ	GAliceRF
Sensitivity		-107		dBm		@1Kbps	
Air rate caucus	0.1	G-Nice R F	9.6	kbps	G.NiceRF	G.Alice RF	G-NiceRF
Receiver bandwidth		200		KHz			



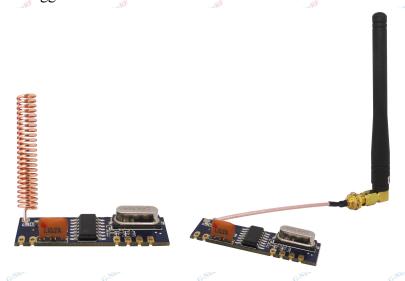
5. Pin Definitions



Pin Number	Pin Definitions	Description
CaricaRF	ANT CAMER	Connect with 50 ohm coaxial antenna
2	GND	Connected to power ground
Nicet 3	VCC MILES	Positive power supply
4	CS	1: Normal working 0: Sleep mode
5	DATA	Data output
6	GND	Connected to power ground
7	ANT	Connect with 50 ohm coaxial antenna

6. Antenna

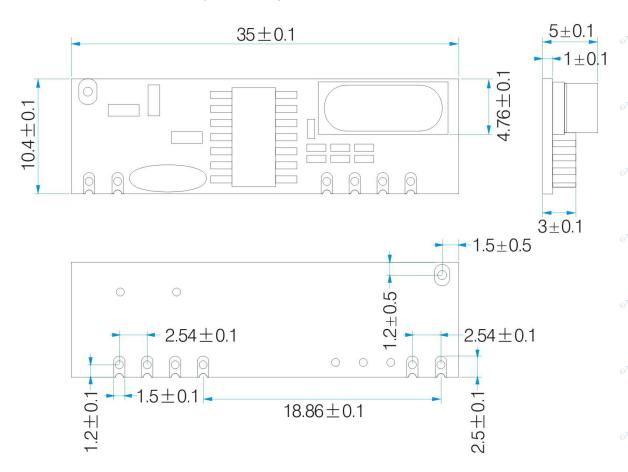
The antenna is very important for RF communication, its performance will affect the communication directly. Module needs antenna in 50ohm. Common antenna has rubber straight/elbow/ foldable rod and sucker antenna and etc. Users can order accordingly. To ensure module in the best performance, we suggest to use the our antennas.





- ★ To ensure modules get the best performance, user must obey the following principles when using the antennas:
- Put the antenna away from the ground and obstacle as possible as you could;
- If you choose the sucker antenna, pull straight the lead wire as possible as it can be, the sucker under arches should be attached on the metal object;

7. Mechanical dimensions (Unit:mm)



8. Order information

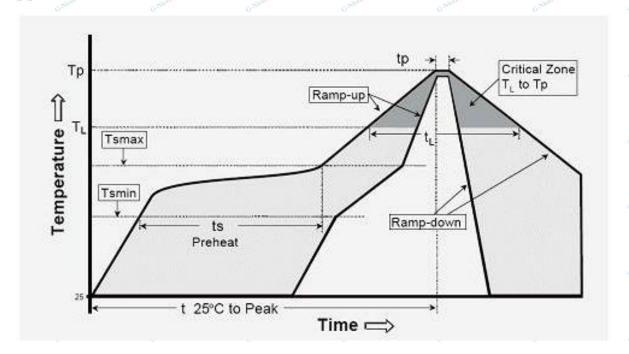
For example: If the customer needs 433MHz, part number of released order shall be: SRX882-433.

This module has below versions:

Order number	Product type
SRX882-315	315MHz working frequency
SRX882-433	433MHz working frequency



Appendix 1: SMD Reflow Chart



IPC/JEDEC J-STD-020B the condition	big size components
for lead-free reflow soldering	(thickness >=2.5mm)
The ramp-up rate (T1 to Tp)	3℃/s (max.)
preheat temperature	
- Temperature minimum (Tsmin)	150℃
- Temperature maximum (Tsmax)	200℃
- preheat time (ts)	60~180s
Average ramp-up rate(Tsmax to Tp)	3℃/s (Max.)
- Liquidous temperature(TL)	217℃
- Time at liquidous(tL)	60~150 second
peak temperature(Tp)	245+/−5℃