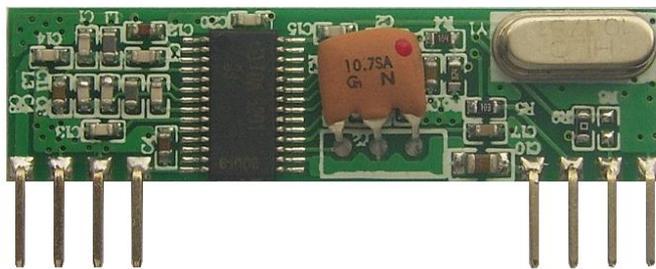




## ASK Superhet Receiver

### General Description:

The RXB2 is a ASK compatible superhet receiver. Which is designed with high sensitivity, long distance, easy use for designing.



### Product Key Features:

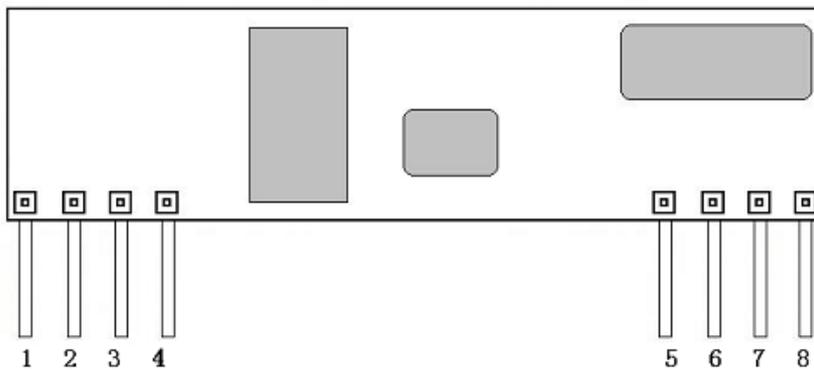
- § High sensitivity  $-110\text{dBm}@433.92\text{ kbps BER}10\text{E}-2$ ;
- § Frequency: 315MHz/433.92MHz(others are available);
- § Low operation voltage:  $VCC= 5\text{ V} \pm 10\%$ ;
- § Low Current: 4.6mA.
- § Power down mode with very low supply current (100nA typ)
- § Operating Temperature :  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- § Fully integrated VCO and PLL Synthesiser
- § Date slicer with self-adjusting threshold



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Product Application:

- \* Remote gate controls
- \* Remote keyless entry
- \* TPMS
- \* Car alarm systems
- \* wireless security systems
- \* Automation systems
- \* Remote control systems



1. ANT 2. GND 3. GND 4. VCC 5. VCC 6. DATA 7. SHUT 8.GND

Pin Assignment :

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Pin	Name	Function
1	ANT	Antena In
2	GND	Ground
3	GND	Ground
4	VCC	Positive Supply Power
5	VCC	Positive Supply Power
6	DATA	Data connected to MCU
7	SHUT	Shutdown logic control input
8	GND	Ground

**Electrical Characteristics :**

Condition: Ta=25°C Vcc=5.0V Frequency=315MHz



Characteristics	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Frequency	Fc		314.90	315.00	315.10	MHz
Modulation Mode			ASK			
Receiver Sensitivity		1K Kbps /50 Ω		-110		dBm
Data-rate				200		KHz
Start-up time	Ton				9	mS
Current	IRC				4.6	mA
Working Voltage	VCC		4.5	5	5.75	V
Image Rejection		336.4MH		20		dB
Output High Level		RL=500K	3.5	3.75	5	V
Output Low Level L					0.5	V
Working Temperature	TC		-40		+85	°C

Condition: Ta=25°C Vcc=5.0V Frequency=433MHz

Characteristics	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Frequency	Fc		433.82	433.92	434.02	MHz
Modulation Mode			ASK			
Receiver Sensitivity		1K Kbps /50 Ω		-111		dBm
Data-rate				200		KHz
Start-up time	Ton				9	mS
Current	IRC				4.6	mA
Working Voltage	VCC		4.5	5	5.75	V
Image Rejection		412.52MHz		20		dB
Output High Level		RL=500K	3.5	3.75	5	V
Output Low Level L					0.5	V
Working Temperature	TC		-40		+85	°C



Mechanical Dimension:

