Type: Super-heterodyne Receiver Module

Model: RXB7

Description:

This wireless high-frequency receiver module RXB7 is through JMRTH R&D team assembled many years of experience to develop this high sensitivity OOK receive module. Lost cost, high stable also can provide the best RF solution in the market.

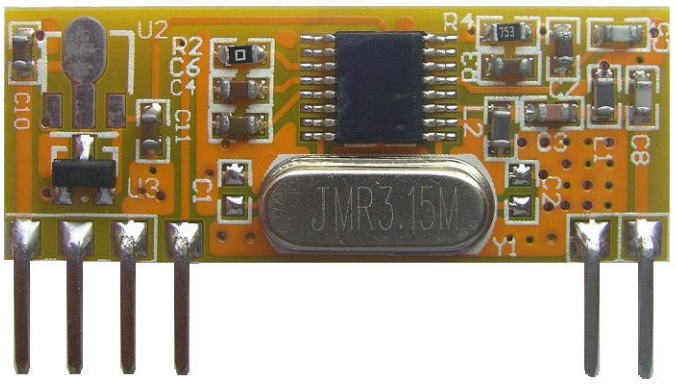
highly suitable for industry control or bad place for use, strong anti-jamming. Built-in automatic gain circuit (AGC), it will automatically change front-end LNA gain among received signal strength also makes signal output will not be strong or weak signals which caused by phase distortion, so that it can rise higher sensitivity. To receive the local oscillation circuit for the PLL lock loop design, no offset, and stability is high.

Frequency is 315/433.92/868/914.5MHz and receiver structure is super-heterodyne, received signal is OOK. After received signal, it will output COMS signal to external decoder IC for decoding.

It is convenience to applicate in different products and external components is not necessary to make products be wireless also bring value-added for your products.

Key Features :

- Lost Cost 315/433.92/868/914.5MHz ASK/OOK Receiver;
- Low Working Voltage 3.0V~5.5V;
- Low Current :4mA @315MHz, 6mA @433.92MHz,9mA@868.35MHz:
- Power down mode with very low supply current (30 nA typ) ;
- High Sensitivity: -110dBm normally; -108dBm~110dBm@868MHz ;
- Data Rate：>9.6kbps;
- Operating Temperature：-40℃~+85℃;
- RSSI output option;
- Small package: SIL-8pins(2.54mm of pin distance);
- Lead Temperature(soldering, 3s): 330 degrees centigrade;
- Dimension: 43.2mm(L)*12.3mm(W)*5mm(H);



Application :

- Security System
- Wireless Remote Control Car
- Wireless Remote Control Robot
- Automatic Power Switch Control

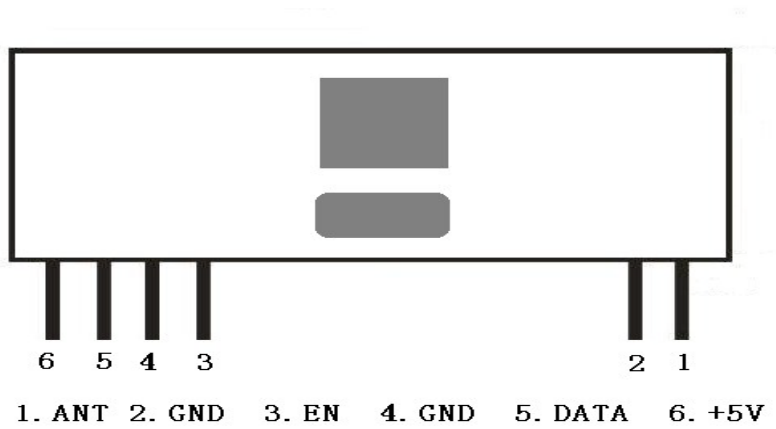
Product Identification:

315MHZ	RXB7-315M
433.92MHZ	RXB7-434M

Electrical Characteristics ：

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	300	315/433.92/868.35	930	MHz	
Receiver Sensitivity	-108	-110	-110	dBm	BER=10E-2
Data Rate	0.058		9.0	KBaud	
Supply Voltage, VDD	3.0		5.5	V	DC
Current	5.7		9 .0	mA	
Operating Temperature	-40		+85	℃	

Mechanical Size :



Notes:

Antenna: Length = 22.6cm for 315MHz , Length = 17 cm for 433.92MHz, Length = 8.38cm for 868.35MHz; rigid wire.