

Type: ASK/OOK Super-Heterodyne Receiver Module
Model: CY48-XXX

1. DESCRIPTION:

The CY48 is a super heterodyne wireless receiving module. This module adopts the highly integrated RF wireless data transmission receiving chip, which is a high cost performance of the receiving module of ISM frequency band. It has higher receiver sensitivity, compact small size, and low price. CY48 makes some low-end products can get rid using super-regenerative because of the limitation of price reason. This module also improves the stability and reliability of low-end wireless products, improve the image of the product quality and enhance the product competitiveness. Any circuit that can be done without additional wireless signal input to the data signal output. Users only need to plus simple data decoding circuit, can easily achieve the development of wireless products.



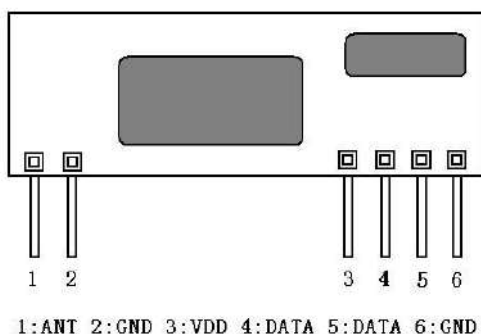
2. FEATURES:

- High sensitivity -110dBm@433.92 1kbps BER10E-2;
- Frequency: 315M/433.92MHz (custom frequency is available)
- Low operation voltage: VCC= 3.6-5.5 V;
- Low Current: 4.8mA. 5V@315MHZ
- Operating Temperature: -20°C ~+70°C;
- Small Size of PCB: 30 x 8.5 x 5 MM;

3. APPLICATION:

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

4. PIN DEFINITION:



Please note: CY48 is come with standard 4 PINs (without the PIN 1&2). Please notify us if you would like 6PINs.

Pin Name	Pin Definition
ANT	RF signal input pin, connect antenna outside(Note1)
GND	Connect to negative power supply
VDD	Connect to positive power supply
DATA	Data output pin, connect to MCU or decoder's input pin
DATA	Data output pin, connect to MCU or decoder's input pin
GND	Connect to negative power supply

Note1: ANT pin is a 50 ohm antenna input. The length is about:
 23cm for 315MHz
 17cm for 433.92MHz

5. ELECTRICAL CHARACTERISTICS:

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

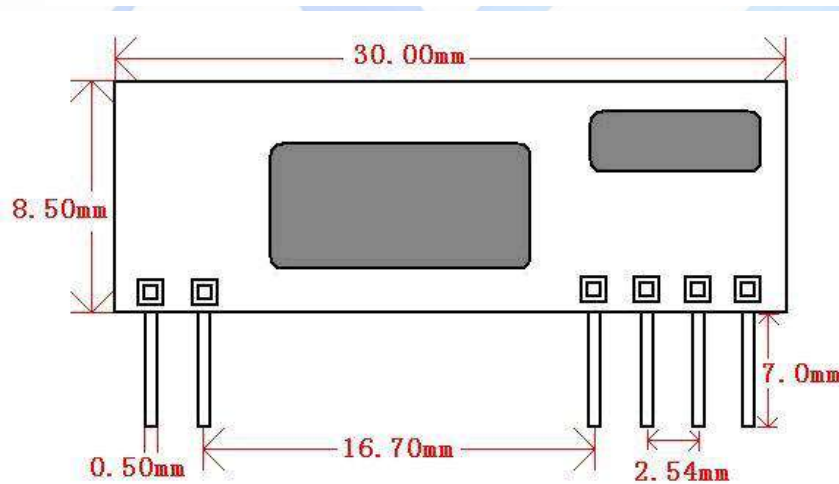
Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	314.90	315	315.10	MHz	Other freq. available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate			2.4	KBaud	Manchester code



Supply Voltage, VDD	3.6	5.0	5.5	V	DC
Current	4.6		6.0	mA	DC
Operating Temperature	-20		+70	°C	

Condition: Ta=25°C Vcc=5.0V Frequency=433.92MHz

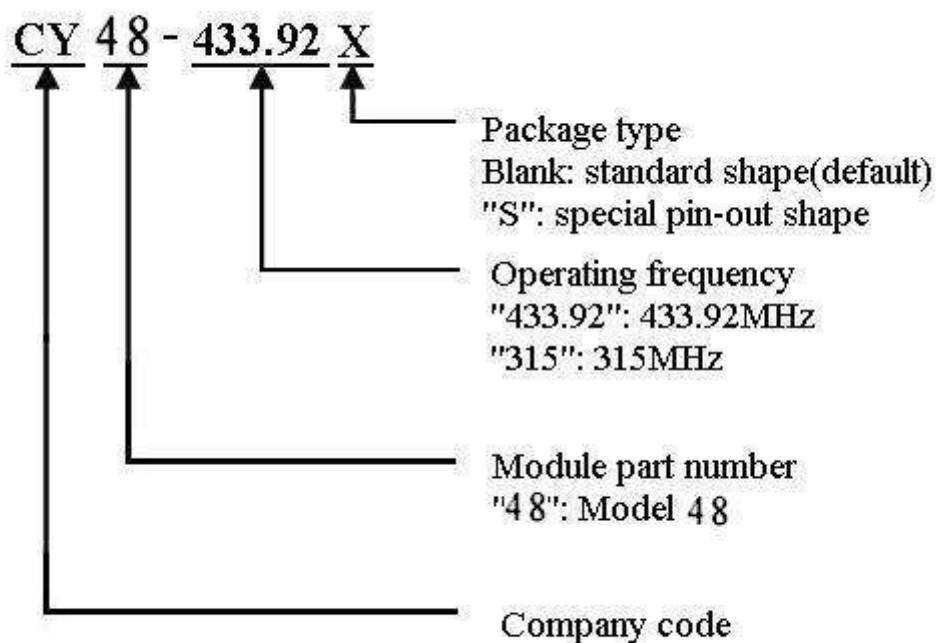
Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	433.82	433.92	434.02	MHz	Other freq available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate			2.4	KBaud	Manchester code
Supply Voltage, VDD	3.6	5.0	5.5	V	DC
Current	4.6		6.0	mA	DC
Operating Temperature	-20		+70	°C	



**6.
MECHANICAL
SIZE:
(UNIT:
mm)**

Figure2 CY48 Dimension

7. ORDER INFORMATION:



For more information and assistance, please contact us as follows:

CY WIRELESS TECHNOLOGY LIMITED

Add: 1407, Block C, Tairan Building, 8th Tairan Road, Futian District,

Shenzhen, Guangdong Province, China

Website: www.rficy.com

