



Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY48-XXX

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.



Order Information:

Model NO.	Freq.
CY48-315	315MHz
CY48-433	433.92MHz

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;

Application

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

Pin Description

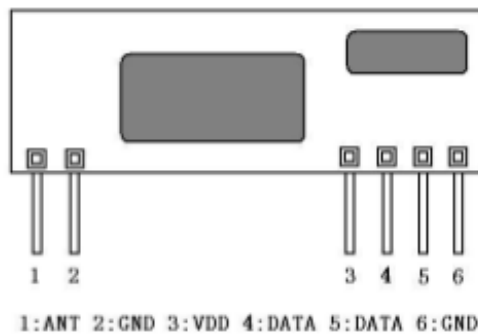


Figure1 CY48 Shape & Pins

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

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

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 rata			2.4	Kbps	Manchester code
Supply voltage, VDD	3.6	5.0	5.5	V	DC
Current	4.6		6.0	mA	DC
Operation 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	315.10	MHz	Other freq. available
Receiver sensitivity		-110		dBm	BER=10E-2
Data rata		2.4	4.8	Kbps	Manchester code
Supply voltage, VDD	3.6	5.0	5.5	V	DC
Current	4.6		6.0	mA	DC
Operation temperature	-20		+70	°C	

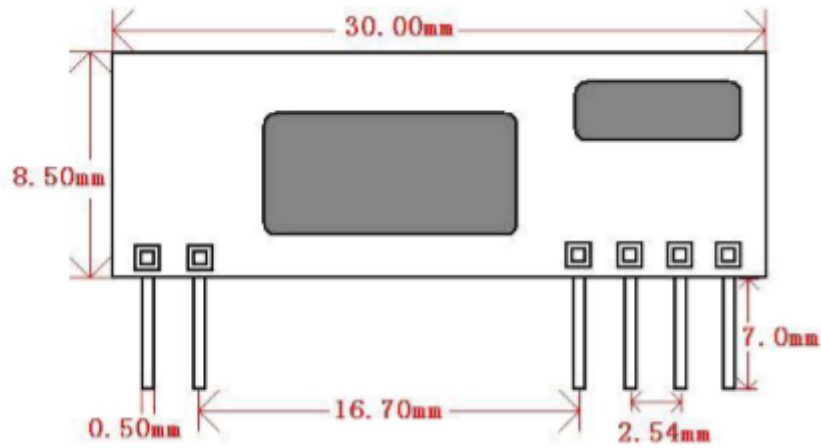
Mechanical Size: (Unit: MM)

Figure2 CY48 Dimension

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

Email: info@rficy.com