



Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY33-XXX

Description:

CY33 is an ASK/OOK receiver super-heterodyne module, which is designed specifically for unlicensed remote-control and wireless security receiver operating at 315/433.92MHz under FCC Part 15 regulation or pass ETSI certification. The CY33 is based on a single-conversion, super-heterodyne receiver architecture and incorporates an entire Phase-Locked Loop (PLL) for precise local oscillator generation. It can be used in OOK/ HCS/ PWM modulation signal and demodulate to digital signal. CY33 is a high performance module at a competitive cost and easily to design for your product. The CY33 module can be also a RoHS compliance product.



Order Information:

Model NO.	Frequency
CY33-315	315 MHz
CY33-433	433.92 MHz

Features:

- Frequency: 315M/433.92MHz (custom frequency is available)
- Low cost ASK/OOK radio superhet receiver
- High frequency stability (no adjust components) & coherence
- Very low RF re-radiation at the antenna
- Operation temperature: -20°C ~70°C (It can custom to -40~85°C upon requests)
- Supply voltage: 3.0~5.5V
- Available frequency: 315/433.92MHz (other Frequency customer selectable)
- Compatible with most (ASK/OOK) transmitters

Application

- Smart home system
- Remote controls
- Remote fan and light control
- Garage door and gate openers
- Alarm and security system

Pin Description

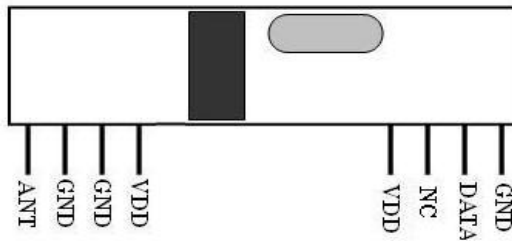


Figure1 CY33 Shape & Pins

Pin-out as showed in figure 1 above

Pin Name	Pin Definition
ANT	RF signal input pin, connect antenna outside(Note1)
GND	Connect to negative power supply
GND	Connect to negative power supply
VDD	Connect to positive power supply
VDD	Connect to positive power supply
NC	No connect
DATA	Data output pin, connect to MCU or decoder's input pin
GND	Connect to negative power supply

Note 1: ANT pin is a 50 ohm antenna input. The length is about:
 23cm for 315MHz
 17cm for 433.92MHz

Electrical Characteristics:

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Frequency range		315/433.92		MHz	
Receiver sensitivity		-107		dBm	
Data rate	0.58	1.2	4.8	Kbps	
Supply voltage, VDD	3.0		5.5	V	DC
Current	2.7		4.1	mA	
Operation temperature	-20		+70	°C	

Mechanical Size: (Unit: MM)

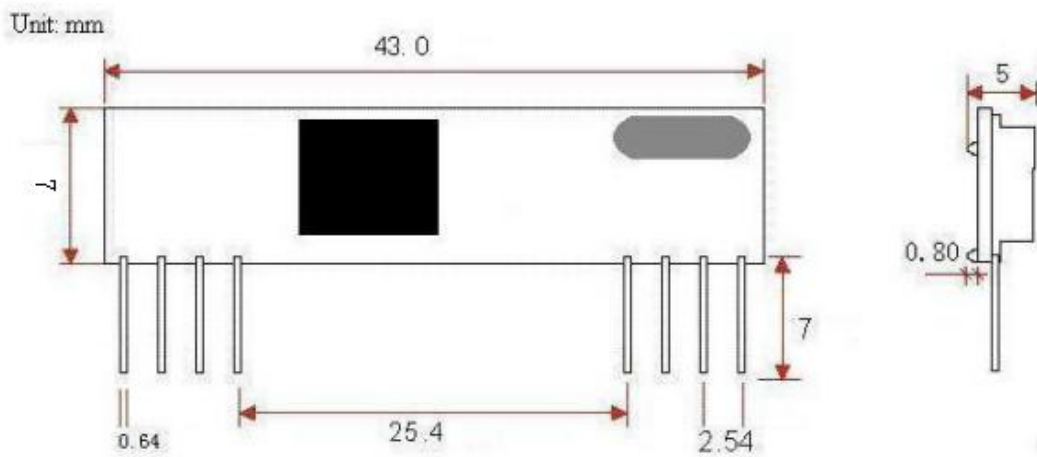


Figure2 CY33 Dimension



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

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