

**Type: ASK Super-Heterodyne Receiver Module**  
**Model: CY88-XXX**

### 1. DESCRIPTION:

The CY88 is a ASK/OOK compatible super heterodyne wireless receiving module with high performance for ISM frequency band. With the adoption of European brand RF wireless data transferring/receiver chipsets. The model has a high receiving sensitivity and strong ability of resisting. From wireless signal input to data output can be done without any electrical circuit. User only use extra simple data decode circuit can achieve wireless products development.



CY88 is for industrial level version.

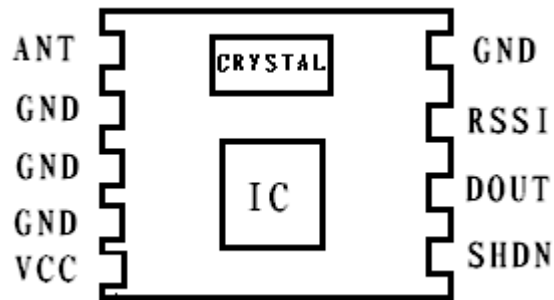
### 2. FEATURES:

- Frequency: 315MHz/433.92MHz/868.35/915MHz (custom frequency is available);
- High sensitivity -110dBm@433.92 1kbps BER10E-2;
- Supply voltage: VCC= 3 to 3.6 V;
- IF band: 230KHz;
- Low power consumption: 3.9mA@315M, 6mA@433.92M.
- Wide operating temperature:-40~85°C;
- Excellent selectivity and noise rejection;
- Analog RSSI Output ;
- SIL(single in line) small package

### 3. APPLICATION:

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

**4. PIN DEFINITION:**



**Figure1 CY88 Shape & Pins**

Pin-out as showed in figure1 above.

<b>Pin Name</b>	<b>Pin Definition</b>
<b>GND</b>	Connect to negative power supply
<b>RSSI</b>	Rssi Output
<b>DOUT</b>	Data Pin
<b>SHDN</b>	Shut Down Pin (“0” enable, “1” shut down)
<b>ANT</b>	RF signal input pin, connect antenna outside( <b>Note1</b> )
<b>GND</b>	Connect to negative power supply
<b>GND</b>	Connect to negative power supply
<b>GND</b>	Connect to negative power supply
<b>VCC</b>	Connect to positive power supply

**Note1:** ANT pin is a 50 ohm antenna input. The length is about:  
 23cm for 315MHz  
 17cm for 433.92MHz  
 8.6cm for 868.30Mhz

## 5. ELECTRICAL CHARACTERISTICS:

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

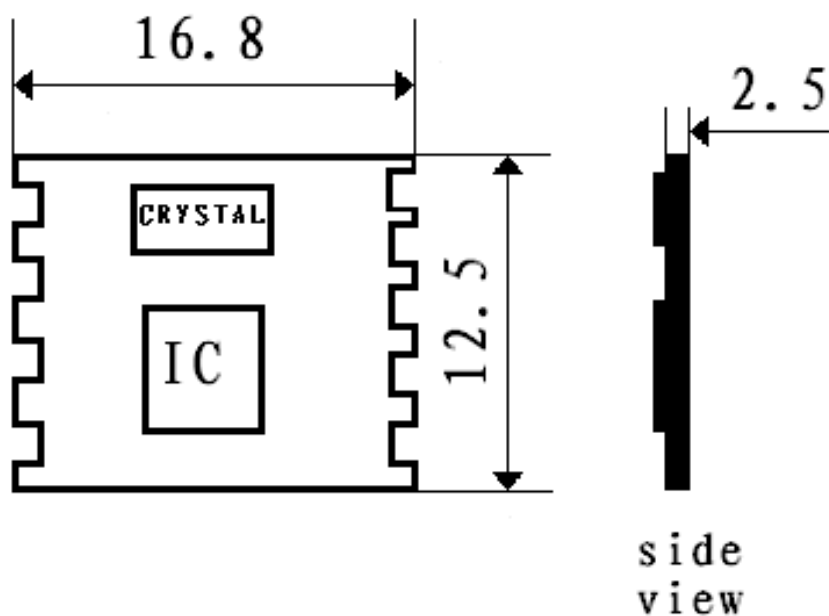
Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range		315		MHz	Other freq. available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.58	2.4	12	KBaud	Manchester code
Supply Voltage, VDD	3.0		3.6	V	DC
Current		3.9		mA	DC
Operating Temperature	-40		+85	°C	

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

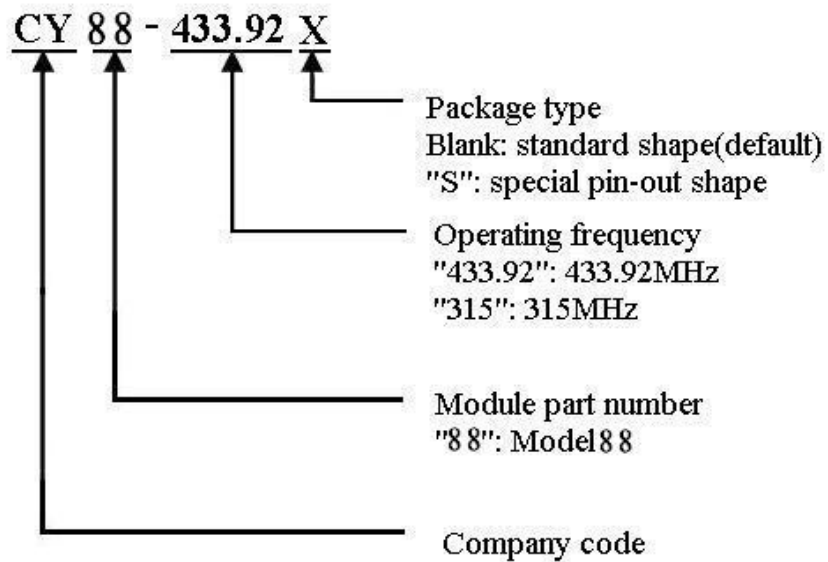
Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range		433.92		MHz	Other freq available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.58	2.4	12	KBaud	Manchester code
Supply Voltage, VDD	3.0		3.6	V	DC
Current		6.0		mA	DC
Operating Temperature	-40		+85	°C	

Condition: Ta=25°C Vcc=5.0V Frequency=868.30MHz

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range		868.35		MHz	Other freq available
Receiver Sensitivity		-108		dBm	BER=10E-2
Data Rate	0.58	2.4	9.6	KBaud	Manchester code
Supply Voltage, VDD	3.0		3.6	V	DC
Current		9.0		mA	DC
Operating Temperature	-40		+85	°C	

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

**Figure2 CY88 Dimension**

## 7. ORDER INFORMATION:



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

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