

**Type: ASK/OOK Super-Heterodyne Receiver Module**  
**Model: CY07-XXX**

### 1. DESCRIPTION:

The CY07 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.



CY07 is for industrial level version.

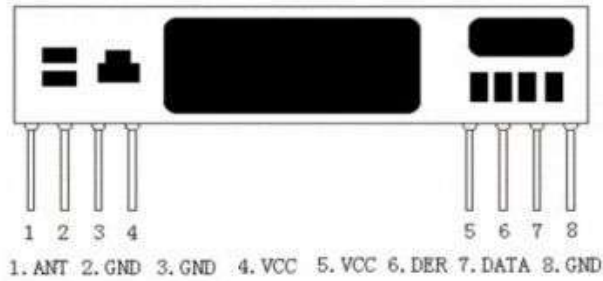
### 2. FEATURES:

- Frequency: 315MHz/433.92MHz/868.35/915MHz (custom frequency is available);
- High sensitivity -110dBm@433.92 1kbps BER10E-2;
- Supply voltage: VCC= 3.6to 5.5 V;
- IF band: 230KHz;
- Low power consumption: 4.8mA@315M, 6mA@433.92M.
- Wide operating temperature;
- Excellent selectivity and noise rejection;
- Analog RSSI Output(only for V2.0) ;
- 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 CY07 Shape & Pins**

<b>Pin Name</b>	<b>Pin Definition</b>
<b>ANT</b>	Antenna In
<b>GND</b>	Connect to negative power supply
<b>GND</b>	Connect to negative power supply
<b>VCC</b>	Connect to positive power supply
<b>VCC</b>	Connect to positive power supply
<b>DER</b>	Optional output: 1, DATA output(default setting) 2, Battery Saving Mode: (Working mode in low level input) (Sleeping mode in high level input) 3, RSSI
<b>DATA</b>	Data Output
<b>GND</b>	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
- 8.6cm for 868.35Mhz
- 8.2cm for 915Mhz

### 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	Others available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.58	1.2	9.6	Kbps	Manchester code
Supply Voltage, VDD	3.6	5	5.5	V	DC
Current	4.8		6	mA	
Operating Temperature	-40		+85	°C	

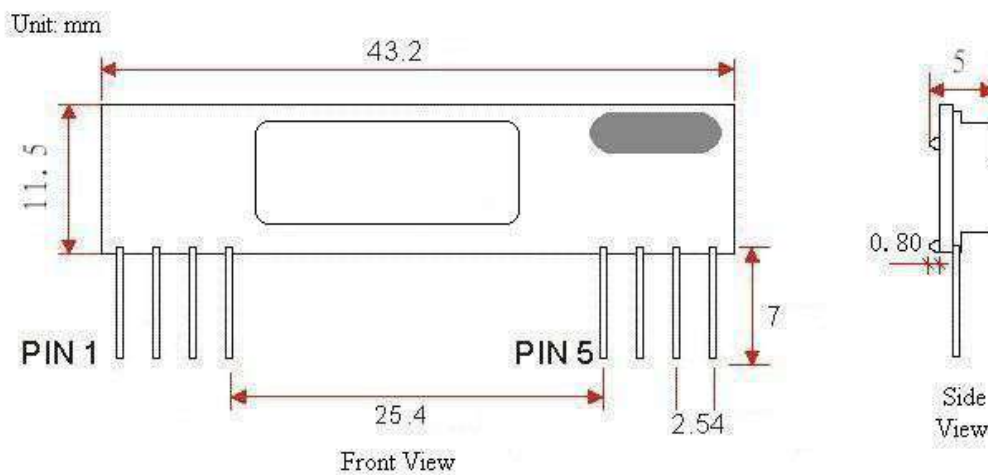
Condition: Ta=25°C Vcc=5.0V Frequency=433.92MHz

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	433.82	433.92	434.02	MHz	Others available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.58	1.2	9.6	KBaud	Manchester code
Supply Voltage, VDD	3.6	5	5.5	V	DC
Current	4.8		6.0	mA	
Operating Temperature	-40		+85	°C	

Condition: Ta=25°C Vcc=5.0V Frequency=868.35MHz/915MHz

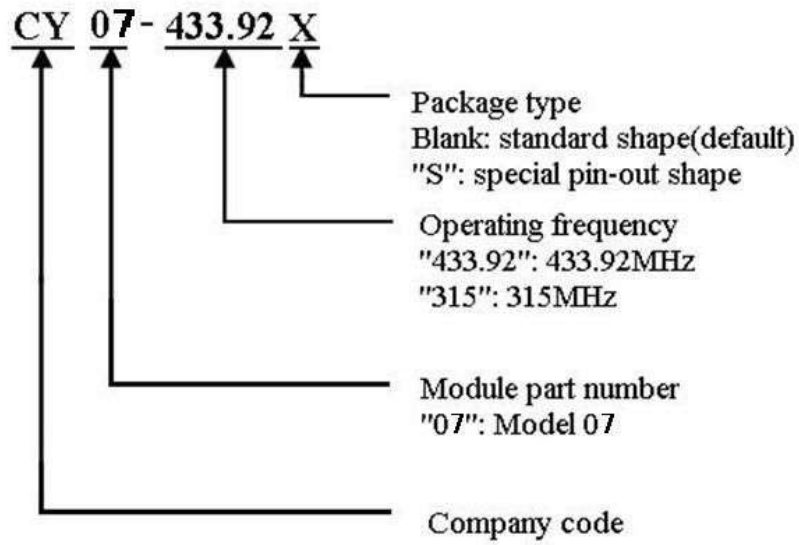
Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range		868.35/915		MHz	
Receiver Sensitivity	-108	-110	-110	dBm	BER=10E-2
Data Rate	0.58	1.2	9.6	KBaud	
Supply Voltage, VDD	3.6		5.5	V	DC
Current		9		mA	
Operating Temperature	-40		+85	°C	

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



**Figure2 CY07 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](http://www.rficy.com)

Email: [info@rficy.com](mailto:info@rficy.com)