

**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 -112dBm@433.92, 1kbpsBER10E-2;](#)
- Supply voltage: VCC=3.6to5.5V;
- IF band: 230KHz;
- Low power consumption: 4.8mA@315M, 6mA@433.92M;
- Wide operating temperature;
- Excellent selectivity and noise rejection;
- Analog RSSI Output(onlyforV2.0);
- SIL (single inline) small package

3. Application

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

4. Pin Description



CY07 Shape & Pin

Pin Name	Pin Definition
ANT	Antenna In
GND	Connect to negative power supply
GND	Connect to negative power supply
VCC	Connect to positive power supply
VCC	Connect to positive power supply
DER	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
DATA	Data Output
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

8.6cmfor868.35Mhz

8.2cmfor915Mhz

5. Electrical Characteristics:

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

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range	314.9	315	315.1	MHz	Other available
RF Sensitivity		-112		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	

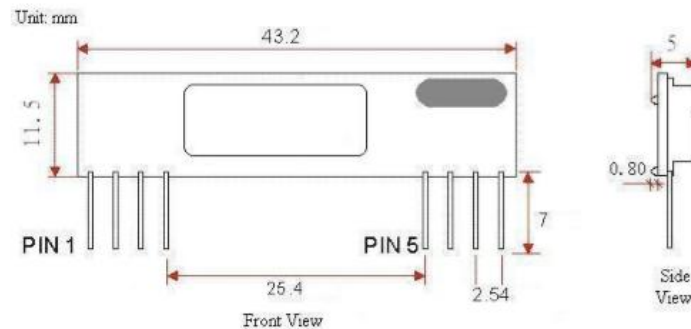
Condition: Ta=25°C Vcc=5.0V Frequency=433.92MHz

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range	433.82	433.92	434.02	MHz	Other available
RF Sensitivity		-112		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=868.35MHz/915MHz

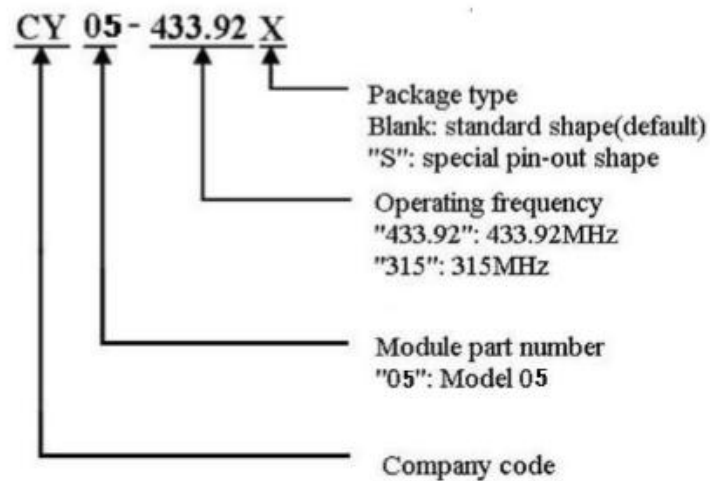
Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range		868.35/915		MHz	Other available
RF Sensitivity	-108	-110	-110	dBm	BER=10E-2
Data Rate	0.58	1.2	9.6	Kbps	Manchester code
Supply Voltage, VDD	3.6		5.5	V	DC
Current		9		mA	
Operating Temperature	-40		85	°C	

6. Mechanical Size: (Unit: MM)



CY07 Dimension

7. Order Information:



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

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