



Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY07-V1.1-XXX

Description:

The CY07-V1.1 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, that 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-V1.1 is for commercial level version.



Without Cover



With Cover:

Order Information:

Model NO.	Frequency
CY07-V1.1-315	315 MHz
CY07-V1.1-433.92	433.92 MHz
CY07-V1.1-868.35	868.35 MHz



Features:

- Frequency: 315MHz/433.92MHz/868.35MHz (custom frequency is available);
- High sensitivity: -110dBm @433.92M 1kbps BER10E-2; -107dBm @868.35M 1kbps BER10E-2;
- Supply voltage: VCC= 3.6 to 5.5V @433.92M; VCC= 4.5Vto 5.5V @868.35M;
- IF band: 230KHz @433.92M; 200KHz @868.35M;
- Low power consumption: 4.8mA@315M, 6mA@433.92M, 13mA@868.35M;
- Excellent selectivity and noise rejection;

Application

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

Pin Description

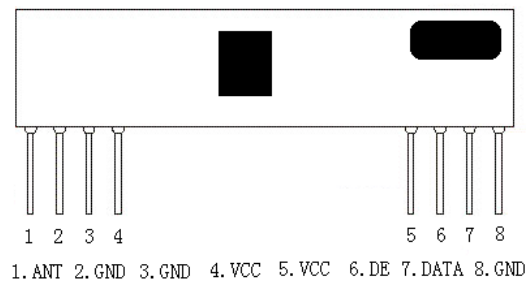


Figure1 CY07-V1.1 Shape & Pins

Pin-out as showed in figure 1 above

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)
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
 8.5cm for 868.35MHz

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 Rate	0.58	1.2	4.8	Kbps	Manchester code
Supply Voltage, VDD	3.6	5.0	5.5	V	DC
Current	4.8		6.2	mA	DC
Operating 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	434.02	MHz	Other freq. available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.58	1.2	4.8	Kbps	Manchester code



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Supply Voltage, VDD	3.6	5.0	5.5	V	DC
Current	4.8		6.2	mA	DC
Operating Temperature	-20		70	°C	

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

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Frequency Range	868.25	868.35	868.45	MHz	Other freq. available
Receiver Sensitivity		-107		dBm	BER=10E-2
Data Rate	0.58	1.2	4.8	Kbps	Manchester code
Supply Voltage, VDD	4.5	5.0	5.5	V	DC
Current		13		mA	DC
Operating Temperature	-20		70	°C	

Mechanical Size: (Unit: MM)

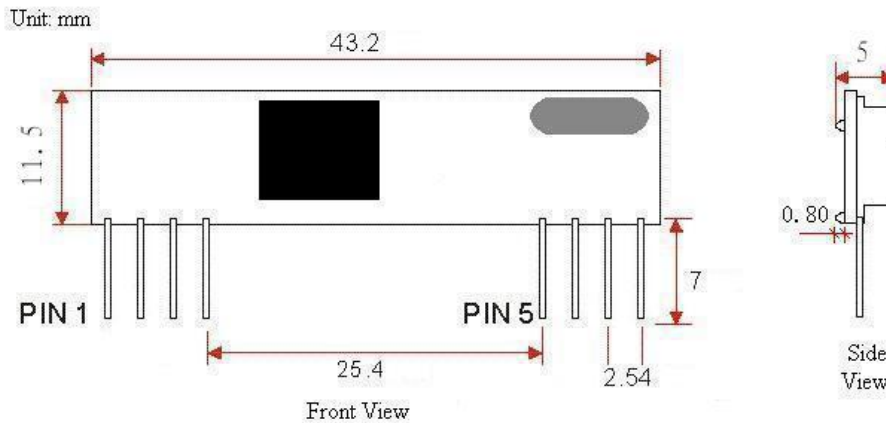


Figure2 CY07-V1.1 Dimension



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

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