HOPE RF

HM-R

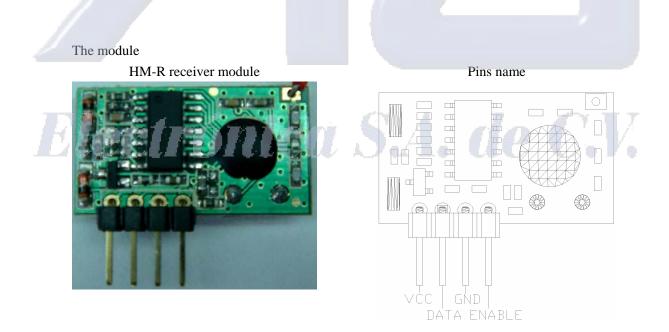
HM-R series FSK receiver module

General

HM-R series receiver module is specially designed by Hope Microelectronics Co., Ltd. For replacing those applications that used ASK technology module already. It used together with HM-T/HM-TP series FSK transmission module. Due to the benefits form FSK technology, the module is robust to interference, and longer working range can be achieved.

FEATURES

- 1. Highly integrated, small size
- 2. Hi sensitivity, low power consumption
- 3. FSK technology, suitable for replacing ASK modules
- 4. Less interference, longer working range
- 5. Can be used to replace ASK module pair W/O software modification
- 6. No manual tuning required during production



Note: ENABLE active hi make module work and low sleep the module.

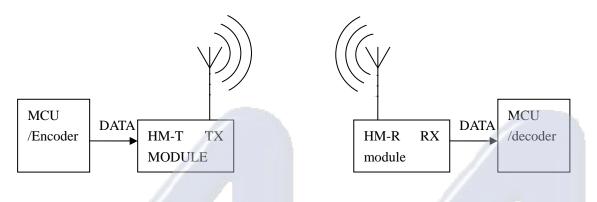
It is recommended than keep ENABLE low while power on, and then active it after module initialization

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Application

Pin to pin replace the old ASK module pair. Special design can be made for more sophisticated application.



Specification

1. DC parameter

	Min	Тур	Max	Unit
Power supply	2.5	3	5	V
Temperature	-35		80	°C
Data rate	600	4800	9600	bps

Note: Data rate can be customize from 300bps to 100kbps

2. Performance

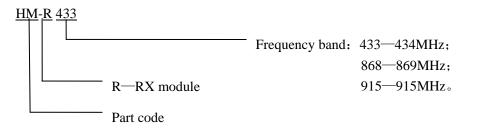
VCC=3V, T=25℃

Model	Condition	HM-R433	HM-R868	HM-R915	单位
Frequency		434	869	915	MHz
Sensitivity	en na ce	-97	-98	-99	dBm
RX current		9	10	11	mA
	Work with HM-T	240	160	250	m
Reliable range	Work with HM-R	260	290	370	m

Note: 1.Range test conditions: 1.Open area; 2.Antenna is about 2m above ground.

2. If 5V power supplied, even longer range is possible, however more power be consumed

Naming



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Mechanical outline

HM-R

湅 -2,54-6.8 -3,23-Ę -40,66 D) M D ,54-4 P 8888888 6.8 Electrónica S.A. de C.V. ZHM898 0 315MHz 15MHz <u>53MHz</u> AN ENABLE 🕲 GND 🕲 data CO VCC REV: 3.0 HM—R

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HM-R

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