

RMB-500XS450S/900S UHF receiver

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High Sensitivity FM / FSK receiver Module

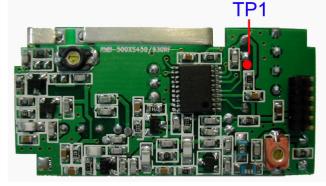
The RMB-500XS450S/900S series UHF band data receiver is an ideal design module used for Pager, PDA, wireless sign board, Car Security System, and Remote controller, etc. wireless applications..

Main Function

- Complete with 4 crystals design
- Wide Frequency Range from 400MHz --490MHz or 825MHz -- 950MHz,
- POCSAG, 512/1200/2400, and Flex 1600bps or any 2 Lever formats
- Data rate from 300bps to 4800bps.
- Include AGC circuit
- High sensitivity
- Low power consume
- Power saving select
- Low Volt alarm
- Wide operate temperature from -40°C -- +70°C
- Small size
- RSSI output option
- Audio output option

Specification

Description Part No: RMB-500XS450S/900S		
Frequency stability	10ppm at 25 $^{\circ}$ C (5ppm option)	
Operation frequency	400 490 MHz / 825 950 MHz	
Data Rate	300bps to 4.8Kbps.	
Modulation	± 4.5K FSK NRZ	
Channel spacing	5Khz/10Kh/12.5Khz/25Khz.	
Sensitivity	-114dbm with loop antenna, -120dbm with cable direct.	
Selectivity	≥60 dB.	
Image response rejection	≥50 dB.	
Spurious response rejection	urious response rejection ≥55 dB.	
Working Voltage DC 3V ± 10%		
Power consumption Battery saving ON 680uA/hrs /B/S OFF 2.15mA/hrs.		
Working temperature range	-20 to +70°C , -40 to 70°C (for Option)	
Module Size	43mm X 22mm X 12mm.	
Weight	4 grams.	



PCB Size: 43mm X 22mm X12mm

Up-date March.2008 Page 1



RMB-500XS series receiver

Pin Description

Pin #	Name	Description	Remark
1	Alarm	Low battery volt alarm	If low volt alarm not to using this pin NC
2	Data	Received data output	Plus a resistor 10K ohm to Vcc1** **If Vcc1=3V the data output logic1=3V **If Vcc1=5V the data output logic1=5V
3	B/S	Battery saving	This pin direct connect to Pin#5(VCC) for receiver active, this pin connect to GND for receiver Off
4	GND	System ground	Power source ground and data ground
5	VCC	Power supply DC + 3V	Power source DC2.7V~3.3V Max 5mA
6	(*RSSI) (**AF)	Option Pin for RSSI or Audio output	*RSSI output for Radio Signal Strength Indicate. ** AF (Audio) output for FM and MSK applications.

Pin Lead size: 1.27mm 6 pin single

PCB Size and Pin Assignment

