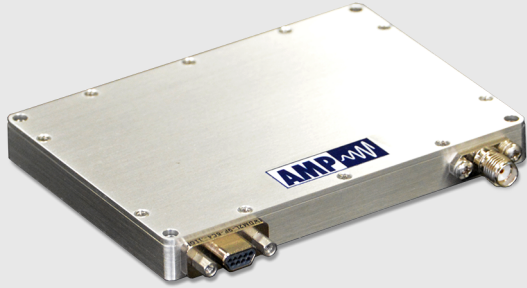


# SSR1 Single Band Scanning Receiver

*Great for Determining What Frequency  
You Should Use at a Given Location!*



## Design Features

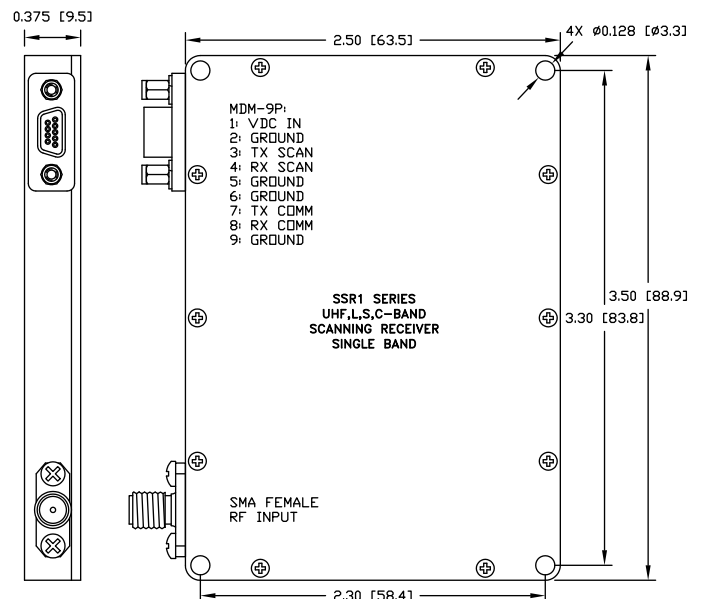
- 3.3 Cubic Inch Package (2.5" x 3.5" x 0.375")
- Weighs < 3 oz.
- Detection to -100 dBm
- Accuracy to +/- 1.5 dB
- Scanning speed 100 MHz/sec
- User-configurable Offset/Correction Factor (for External LNAs, Antennas, Cables, etc.)
- User-configurable Reporting Threshold
- User-configurable Start/Stop Sub-Bands
- User-configurable Single or Continuous Sweeps
- Dedicated Command and Reporting Serial Ports
- Reports Frequency & Detected Power Level (Ex: 4400@-68)

## SSR1 Series

The SSR1 single band scanning receiver is a useful tool for detecting frequency band usage. The SSR1 receiver scans a frequency band in 1 MHz steps and reports the frequency and level via a serial output.

The SSR1 offers many useful features such as user configurable Offset/Correction Factor, Reporting Threshold, Start/Stop Sub-Bands, and Single or Continuous Sweeps.

SSR1 receivers are ideal for law enforcement, surveillance, UAV, UGV, Military, and other applications needing a useful tool to detect frequency band usage in a given area.



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## RF Characteristics

Frequency Range (Specify):	UHF:	340.0-399.9 MHz
(Other Ranges Available)	433 ISM:	433.0-434.8 MHz
	868 ISM:	868.0-870.0 MHz
	915 ISM:	902.0-928.0 MHz
	Lower L-Band:	1435-1535 MHz
	Upper L-Band:	1700-1850 MHz
	Lower S-Band:	2200-2399 MHz
	Upper S-Band:	2400-2499 MHz
	Full S-Band:	2200-2499 MHz
	Lower C-Band:	4400-4900 MHz
	Upper C-Band:	4900-4999 MHz
	Full C-Band:	4400-4999 MHz
	ISM 5.8 GHz:	5725-5875 MHz
Max RF Input:	+10 dBm	
Input Impedance:	50 Ohm Nominal, VSWR 2:1 Maximum	
Image Rejection:	>60 dB	

## Scanning Characteristics

Minimum Detection Threshold:	-100 dBm (User-configurable Reporting Threshold)
Accuracy:	+/- 1.5 dB
Scanning speed:	100 MHz/Sec

## Configuration Interface Characteristics

Interface Type:	Two-Way UART
Signaling Type (Specify):	RS232 or 3.3V TTL
Interface Parameters:	9600/8/1/None/None (Baud/Data Bits/Stop Bits/Parity/Handshake)
Reporting Interface:	Up to 115.2 kbps

## Power Requirements

Input Voltage:	+9 to +16 Vdc, Reverse Polarity Protected
Current Draw (Typical at 12V):	120 mA

## Mechanical

Material:	CNC Machined T6061-T6 Aluminum	
Finish (Specify):	Nickel Plated or Gold Iridite	
Dimensions:	2.50" W x 3.50" L x 0.375" H	
Weight:	<3 oz.	
Connectors:	RF Input:	SMA Female
	DC, Comms, Serial Output:	MDM-9P

## Environmental

Temperature (Operating):	-20°C to +60°C
Acceleration:	100 g, 3 Axis
Altitude:	Unlimited
Humidity:	Up to 95% @ Any Temperature Forming Frost or Condensation