

Receive Systems Module (RSM)

2 Receive System Inputs and 1 External Rx Input
Optional Dual Diversity, Dual Rx antennas, Hot/Standby Rx antennas,
and external receive path monitoring module for the ASM
RSM0000 and RSM0000-48



The Receive Systems Module (RSM) is an optional module that may be used with the Antenna System Monitor (ASM) to monitor two receive paths – i.e. a dual diversity, dual Rx antennas, or hot/standby Rx antenna system. An isolated external off-air Rx path may also be monitored to facilitate additional ASM network monitoring functionality. Peak RF input levels are independently detected, monitored and alarmed for all RF inputs, allowing high RF signal levels that may be impacting Rx system performance to be detected, measured, reported and alarmed - assisting in fault-finding activities. The RSM can be easily added to an ASM at any time, providing a network migration path from non-diversity to diversity technologies. When a RSM is connected to the ASM, the ASM will auto-detect its presence, displaying the respective RSM configuration pages via the ASM GUI (Graphical User Interface). Rear LED's provide a visual indication of the status of the Power, Rx Inputs' levels and alarms.

Features:

- Dual Diversity Rx Antenna monitoring
- Two Rx Antennas (or Hot/Standby Rx Antennas) monitoring
- Isolated External "Off-Air" Rx Path monitoring
- Peak RF Input Levels detection, measurement and alarming
- Auto detected by ASM
- Compact 1RU 19" rack mountable shelf.
- Power daisy chained from ASM (cable supplied)
- Communications interface daisy-chained from ASM (cable supplied)



REAR VIEW



RSM FITTED TO ANTENNA SYSTEM MONITOR

Specifications

Model Number	RSM0000 and RSM0000-48	
Frequency Range	132 - 960MHz	
Impedance	50 ohms	
Return Loss (all ports)	> 14dB	
Maximum RF Input Level (no damage)	0 dBm	
Peak Detector Response Time	> 3mS	
Peak Detector Alarm Threshold (GUI selectable per port)	-35 to -55 dBm	
Peak Detector Warning Threshold (GUI selectable per port)	-40 to -65 dBm	
Rx Gain (GUI selectable per Rx path)	0 to 15dB	
Isolation between RF Inputs	> 55dB	
Visual alarm notification	Rear panel mounted LEDs	
Power Supply options (ASM - daisy chained)	9-36VDC or 36-60VDC	
Connectors	Connection to ASM	N (Male)
	RF In and RF Out	BNC (Female)
	Power Supply	2 x Polarized 2-pin Phoenix connector
	Comms Interface	2 x DB15 (Male)
Dimensions	W 170 x H 65 X D 150mm / W 6.7 x H 2.56 x D 5.9" (including bracket)	
Weight	< 1kg / < 2.2lbs	
Operational temperature range	-30 °C to + 60° C / -22°F to 140°F	

Ordering information	Description
RSM0000	Dual receive path and external off-air receive monitoring module for Antenna System Monitor (ASM) 9-36VDC
RSM0000-48	Dual receive path and external off-air receive monitoring module for Antenna System Monitor (ASM) 36-60VDC.

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APPLICATION DIAGRAM

