

RBR-2150A





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Rackmount Satellite Beacon Receiver

- Beacon Receiver And Spectrum Analyzer In One Package!
- Highly Flexible Configuration
- One Model Supports Many Applications
- Switch Quickly Between Beacon Receiver And Spectrum Analyzer Modes
- Monitoring & Control (M&C) via Ethernet and USB
- Beacon Receiver support integrated into the Latest Avcom GUI
- Comprehensive API for Easy Integration
- Extended Temperature Range

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Acquisition BW	30	(kHz)	Connected 🧿 Running (Loc	ked 🧿
Tracking BW	30	(kHz)			
Frequency	1505.000	(MHz)	Measured Freq	1505.001	(MHz)
Band	L-band		Frequency Drift	0.000	(kHz)
Acquisition C/N0	45.00	(dB-H7)	Current C/N0	54.33	(dB-HZ)
Tracking C/N0	50.00	(dB-HZ)	Lock C/N0	58.24	(dB-HZ)
Reference Power Mode	Fixed		Current Power	-72.65	
Reference Power Level	-70.000	(dBm)	Lock Power	-72.73	
Reference Voltage	5.000	(Vdc)	Current Voltage	3.662	(Vdc)
Voltage Slope	0.500	(V/dBm)	1		
Lock Output Polarity	2				
Time To Lock	2000	(msec)			

RBR Beacon Receiver, Rack Mount

The RBR Series is a Beacon Receiver based on the high-performing single-board Spectrum Analyzers and Beacon Receiver (SBS) products. Avcom has integrated the SBS product into a standard 19" rack enclosure. The RBR product provides same high performance of the MIL-spec compliant SBS module product in a convenient rack enclosure, all at a cost effective price. This enables the user to install the RBR in any standard 19" rack system and access the spectrum analyzer and beacon receiver functions via the included software GUI over IP.

TECHNICAL SPECIFICATIONS

RF	
INPUT CONNECTOR:	BNC standard. N, TNC, F, & SMA available.
INPUT FREQUENCY RANGE:	950 to 2150MHz
TUNING STEP SIZE:	1kHz
INPUT LEVEL RANGE:	0 to -115dBm
MAXIMUM INPUT POWER LEVEL:	+10 dBm max
DETECTION BANDWIDTH:	10 to 750 kHz
TRACKING BANDWIDTH:	10 to 120 kHz
DETECTED BEACON LEVEL FILTERING:	Low-Pass, 0.5 Hz, fixed



TECHNICAL SPECIFICATIONS

PERFORMANCE			
SEARCH/TRACK RATE:		10 Hz	
ACQUISITION TIME:		<2 second typical	
ADJUSTABLE DELAY BEFORE LOCK:		0 to 5000 milliseconds	
BEACON TYPE:		CW, BPSK	
ACQUISITION/TRACKING LI	EVEL:		
User Bandwidth ≤ ± 37 kHz ≤ ± 92 kHz ≤ ± 375 kHz	RBW Filter 3kHz 10kHz 30kHz	Min C/N₀ 40 dB-Hz 44 dB-Hz 48 dB-Hz	
M & C			
ETHERNET:		10/100 Auto, RJ-45 and 8-pin header	
IP ADDRESS:		DHCP or Static	
USB:		Туре-В	
INCLUDED CONTROL APPLIC	CATION:	Avcom GUI (Windows)	
APPLICATION PROGRAMMING INTERFACE (API):		POSIX-compliant 'C' Pre-built Libraries for Windows and Linux x86 Source code available	
PROTOCOL:		High-reliability closed-loop with error checking	
RECEIVER OUTPUT VIA PHYS	SICAL OUTPUTS?	Yes	
RECEIVER OUTPUT VIA M&C INTERFACE:		Yes	
RECEIVER OUTP	UTS		
RECEIVER OUTP	UTS	Analog: BNC, Lock: DB-9	
RECEIVER OUTP CONNECTOR: ANALOG SIGNAL STRENGT	UTS	Analog: BNC, Lock: DB-9 0 to 10 VDC, 5 mA max to maintain linearity	
RECEIVER OUTP CONNECTOR: ANALOG SIGNAL STRENGT ANALOG SLOPE:	H INDICATOR OUTPUT LEVEL:	Analog: BNC, Lock: DB-9 0 to 10 VDC, 5 mA max to maintain linearity 0.25 to 2.5 Volts/dB	
RECEIVER OUTP CONNECTOR: ANALOG SIGNAL STRENGT ANALOG SLOPE: ANALOG SLOPE POLARITY:	PUTS	Analog: BNC, Lock: DB-9 0 to 10 VDC, 5 mA max to maintain linearity 0.25 to 2.5 Volts/dB Positive or Negative	
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Specifications subject to change. ©2015 Avcom of Virginia, Inc. v120114

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