

RADITEK

SATCOM

Satellite Receiver

Satellite Beacon Receiver

930 MHz to 2300 MHz



Functional Description

RSBR-930-2300M-Ff-18Vdc-(E-CDS)-a17 is a high performance unit that is designed to real time track the power density of a satellite beacon and output a DC voltage that is linearly proportional to the beacon power by utilizing a true, RMS-responding power detector. It provides signal tracking capability for higher drift LNB's. The applications for this part is for antenna step track controlling and uplink power control system. Also can be used on telemetry beacons.

Order Examples: RSBR-930-2300M-Ff-18Vdc-E-a17

Description: (Satellite Beacon Receiver, 930-2300MHz, F-Type Female Connector, 18Vdc (Power to extend LNB), Ethernet Option)

Additional Options: External LNB Power (+24 or +15 Vdc) (CDS - Continuous Digital Streaming)

Specifications				Units
Input Frequency	930-2300			MHz
Pre-detection Bandwidth	60			KHz
Input Level	- 90 dBm, min.			dBm
	-30 dBm max. For full tracking range capability			
Frequency Tuning	10 kHz Steps			
Frequency Adjust	Front Panel or Remotely	C/N ₀ <45 dB-Hz for capture		dB/Hz
		AFC (Note 1) +30 kHz		
Image Rejection	>40 dB, 930 to 2300MHz			dB
Input Impedance (Note 2)	75 Ohm			Ω
Input Connector (Note 2)	Type-F, Female			
Output Impedance	100 Ohm, single ended			Ω
Output Connector	Terminal plug and BNC Female			
Tracking Gradient	0.5			V/dB
Tracking Response	0 to +10 VDC for a 20 dB input level change			VDC
System Level Range	60			dB
System Level Adjust	0 to 60dB, 0.5dB Steps			
Frequency Stability	<1 ppm, 0°C to +50 °C			ppm
Phase Noise	>75 dB-Hz, 1 kHz from Carrier			dB
Alarms	Unit Lock			
Alarm Relay	Form-C			
External LNB Power	+18 VDC, Switched, In/Out, 500 ma, max (+24 or +15 VDC optional)			VDC
Continuous Digital Streaming CDS (Option A)	DB-9, RS-232 or RS-422			
Front Panel Display	Vacuum Fluorescent			
M&C	RS-232 or RS-422/485 switched on rear panel			
M&C Connector	DB-9, Female			
Ethernet 10/100 Base T (Option B)	RJ-45 Jack connector			
Physical Characteristics	Size	1.75"H X 16.00"D X 19.00"W		Inches
	Weight	8lb. (3.63 kg)		Lb (kg)
Primary Power	90 - 264 VAC 47 - 63Hz, 1.4 A Auto Sensing			VAC
Environmental Specifications	Operating Temperature		Storage Temperature	Humidity
	0°C to +50 °C		40°C to +70 °C	95% RH@ 40 °C

Note 1: Up to + 100kHz with Proprietary "sweep trac" automatic frequency capture. Customer specified tracking range. Less than 6 sec. Capture time at +100kHz tracking.

Note 2: 50 Ohm N or SMA Type, available. Call or Email Factory

CDS, Continuous Digital Streaming option provides a continuous, two byte, data stream running at 9600 baud that contains ten bits of signal strength level indication as well as lock or alarm condition of the unit. Other baud rates are available. A female DB9, RS-232 or RS- 422, interface connector on the rear of the unit is specifically dedicated for this option.

WE ALSO OFFER A SPECIAL MODEL FOR DATA TRACKING AND SIDE BAND REJECTION

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Specifications may be subject to change

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