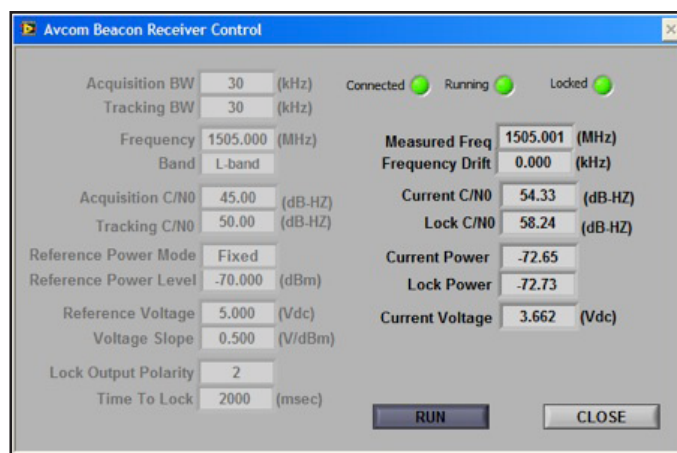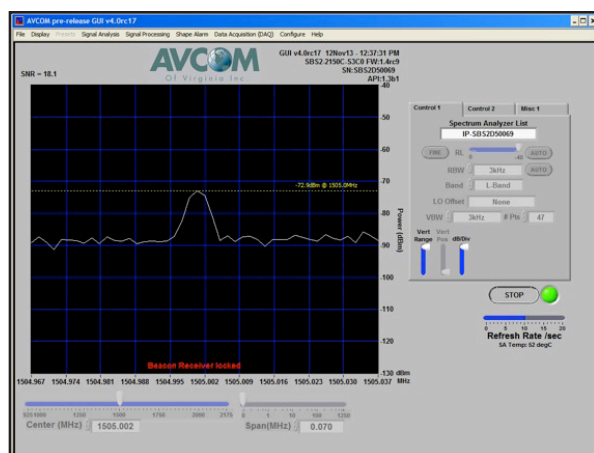# SBS2-2150E-S3C0-B

Satellite Beacon Receiver

- Beacon Receiver And Spectrum Analyzer In One Package!
- Switch Quickly Between Beacon Receiver And Spectrum Analyzer Modes
- Increased Sensitivity and Dynamic Range Over SBS2-2150C
- Compact, Rugged Design Perfect for Integration in Transportable Applications
- 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
- Low SWaP (Size, Weight, and Power)
- Rack Mount Option For Fixed Antenna And Teleport Applications

TECHNICAL SPECIFICATIONS

RF	
INPUT CONNECTOR:	SMA, 50 Ohm
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
TACKING 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

	User Bandwidth	RBW Filter	Min C/N_0
ACQUISITION/TRACKING LEVEL:	$\leq \pm 37$ kHz	3kHz	40 dB-Hz
	$\leq \pm 92$ kHz	10kHz	44 dB-Hz
	$\leq \pm 375$ kHz	30kHz	48 dB-Hz

M & C

ETHERNET:	10/100 Auto, RJ-45 or 8-pin header
IP ADDRESS:	DHCP or Static
USB:	Type-B and 3-pin header
INCLUDED CONTROL APPLICATION:	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 PHYSICAL OUTPUTS:	Yes
RECEIVER OUTPUT VIA M&C INTERFACE:	Yes

RECEIVER OUTPUTS

CONNECTOR:	6-pin header (pigtail supplied)
ANALOG SIGNAL STRENGTH INDICATOR OUTPUT LEVEL:	0 to 10 VDC, 50/40 mA max
ANALOG SLOPE:	0.25 to 2.5 Volts/dB
ANALOG SLOPE POLARITY:	Positive or Negative
ANALOG OUTPUT FILTERING:	Low-Pass, 0.5 Hz, fixed
DIGITAL LOCK INDICATOR OUTPUT:	0 to 3.3 VDC
DIGITAL LOCK INDICATOR OUTPUT POLARITY:	Adjustable (H=LOCK or L=LOCK)

POWER

CONNECTOR:	2-pin Header. Pigtail supplied.
POWER SUPPLY:	15 to 24 VDC, 7W

PHYSICAL

DIMENSIONS:	3.75"(9.525cm) **W** x 5.75"(14.605cm) **L** x 1.1"(2.794cm) **D**
WEIGHT:	0.8lbs/360g

ENVIRONMENTAL

OPERATING TEMPERATURE:	-30°C to 70°C
STORAGE TEMPERATURE:	-40°C to 85°C
HUMIDITY:	0 to 95%, non-condensing

Request A Quote