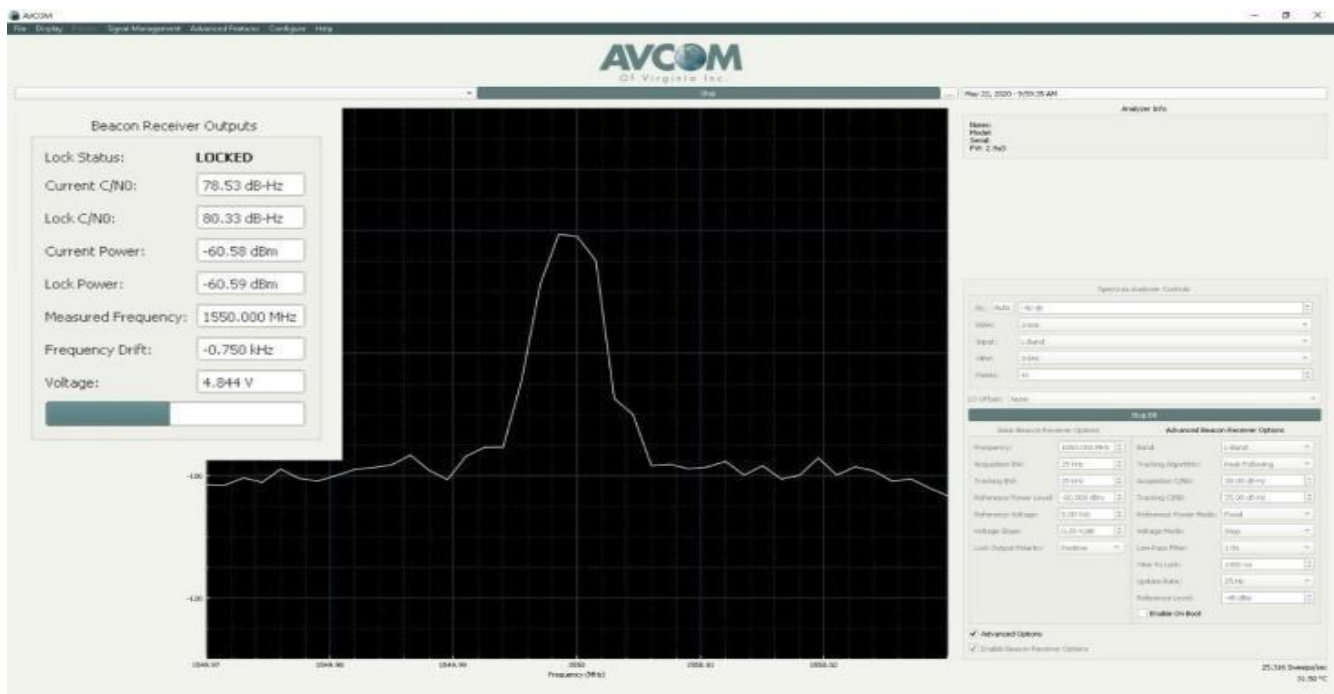


SBS2-2150E-S3C0-B

Embedded Single Board L-Band Beacon Receiver



- Track CW or BPSK Beacon, Track Carrier Power with TPT (Tuned-Power-Tracking), Track Wide Carrier (e.g. DVB) with CEPT(Carrier-Edge-Power-Tracking)
- Beacon Receiver & Spectrum Analyzer Single Board!
- Low SwaP-C; (Size, Weight, Power, Cost)
- Satcom-On-The-Move (SOTM) Applications
- Monitoring & Control (M&C) via Ethernet and USB
- Integrated Support via EVO-GUI Software-Included
- Comprehensive API for Easy Integration



SBS2-2150E-S3C0-B - TECHNICAL SPECIFICATIONS DATA

PARAMETER	PERFORMANCE		
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		
TRACKING BANDWIDTH:	10 to 150 kHz		
DETECTED BEACON LEVEL FILTERING:	Low-Pass, User-Selectable: 0.25 Hz, 0.5 Hz, 1.0 Hz, 2.0 Hz, 3.0 Hz		
SEARCH/TRACK RATE:	User-Selectable: 10 Hz, 25Hz		
ACQUISITION TIME:	<1 second typical		
ADJUSTABLE DELAY BEFORE LOCK:	0 to 5000 milliseconds		
TRACKING TYPE:	BEACON TRACKING - CW, BPSK (no demodulation). Track power and frequency POWER TRACKING - TPT- Track power at frequency/BW, CEPT- Track Wide Carrier Power like DVB		
ACQUISITION/TRACKING LEVEL:	User Bandwidth ≤ ± 37 kHz ≤ ± 92 kHz ≤ ± 375 kHz	RBW Filter 3kHz 10kHz 30kHz	Min C/N 40 dB-Hz 44 dB-Hz 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 EVO-GUI Software (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		

SBS2-2150E-S3C0-B - TECHNICAL SPECIFICATIONS DATA

RECEIVER OUTPUTS	
CONNECTOR:	6-pin header (pigtail supplied)
ANALOG SIGNAL STRENGTH INDICATOR LEVEL:	0 to 10 VDC, 50 mA max
ANALOG SLOPE:	0.1 to 3.0 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:	40° C to 70° C
STORAGE TEMPERATURE:	-40° C to 85° C
HUMIDITY:	0 to 95%, non-condensing
OPERATING ALTITUDE:	8000 m; 26,000 ft