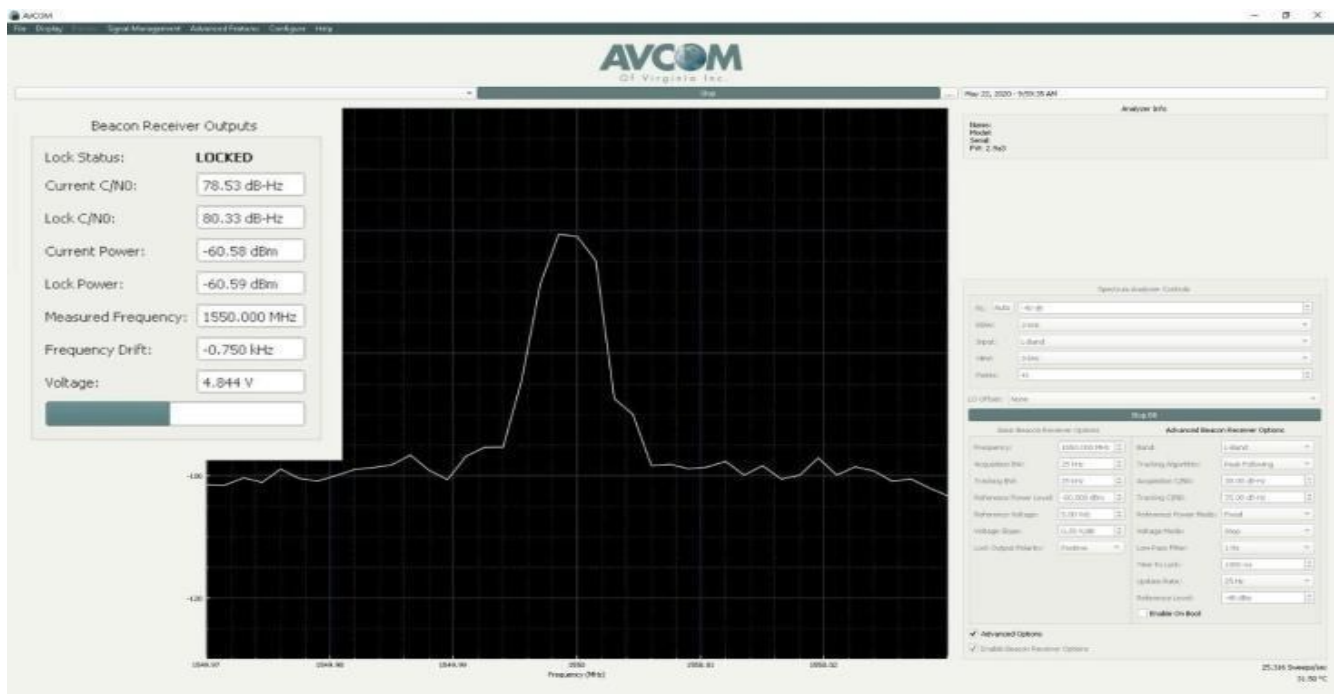


## SBS2-2150E-S3C0-B

## 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												
<b>RF</b>													
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:	<table border="1"> <thead> <tr> <th>User Bandwidth</th> <th>RBW Filter</th> <th>Min C/N</th> </tr> </thead> <tbody> <tr> <td>≤ ± 37 kHz</td> <td>3kHz</td> <td>40 dB-Hz</td> </tr> <tr> <td>≤ ± 92 kHz</td> <td>10kHz</td> <td>44 dB-Hz</td> </tr> <tr> <td>≤ ± 375 kHz</td> <td>30kHz</td> <td>48 dB-Hz</td> </tr> </tbody> </table>	User Bandwidth	RBW Filter	Min C/N	≤ ± 37 kHz	3kHz	40 dB-Hz	≤ ± 92 kHz	10kHz	44 dB-Hz	≤ ± 375 kHz	30kHz	48 dB-Hz
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≤ ± 37 kHz	3kHz	40 dB-Hz											
≤ ± 92 kHz	10kHz	44 dB-Hz											
≤ ± 375 kHz	30kHz	48 dB-Hz											
<b>M &amp; C</b>													
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

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