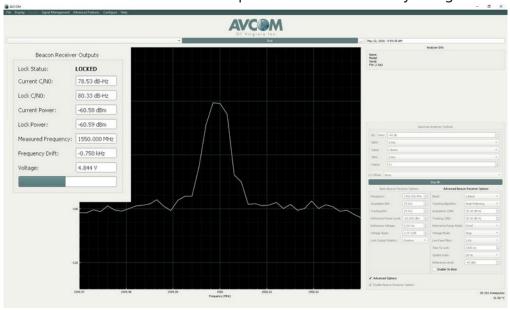


SBS2-2150E-S3C0-B



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



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

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

For ordering information email: salesrfq@avcomofva.com or call 407-574-2450



TECHNICAL SPECIFICATIONS

PERFORMANCE

M & C

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 RBW Filter Min C/N $\leq \pm 37 \text{ kHz}$ 3kHz 40 dB-Hz $< \pm 92 \text{ kHz}$ 10kHz 44 dR-Hz

 \leq ± 92 kHz 10kHz 44 dB-Hz \leq ± 375 kHz 30kHz 48 dB-Hz

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)

POSIX-compliant 'C'

APPLICATION PROGRAMMING INTERFACE (API): 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 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