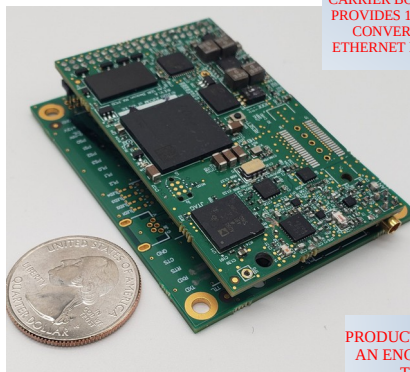
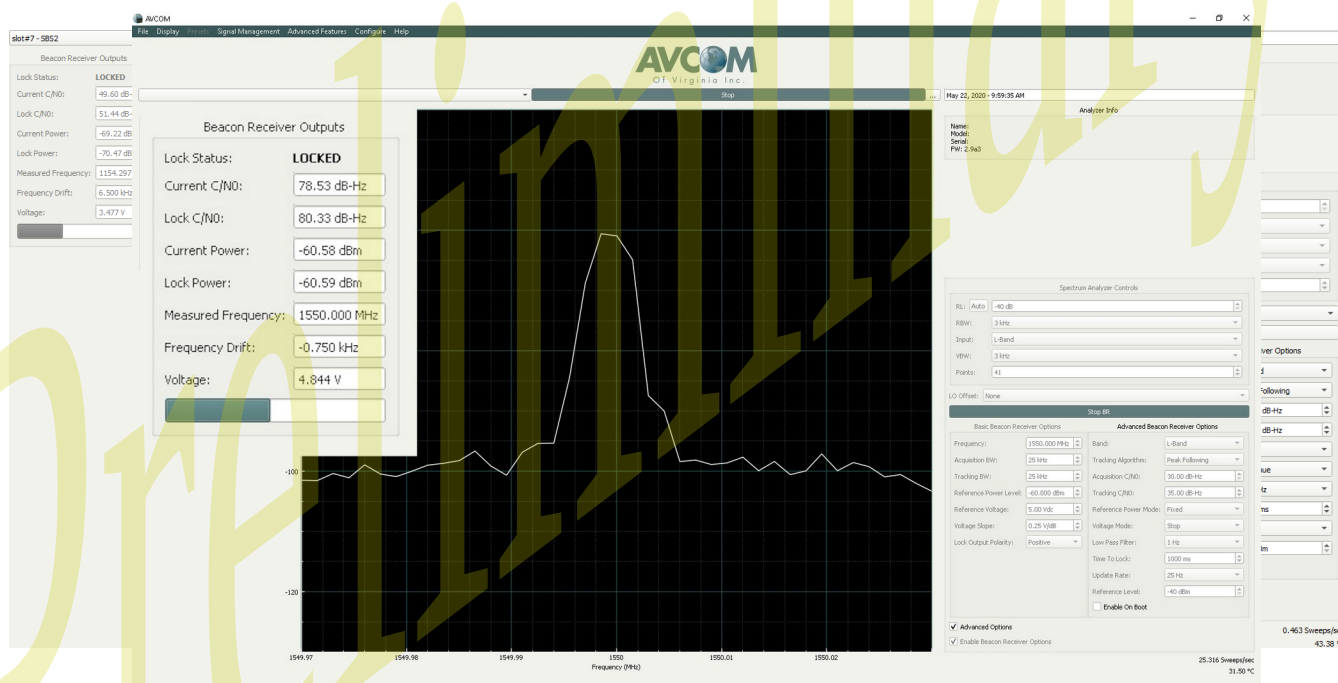


BR-MOD-1

Satellite Beacon Receiver Module



- Track Conventional Beacon Carrier
- Compact, Rugged Design
- For Integration in On-The-Move Applications
- Monitoring & Control (M&C) via Ethernet UART
- Integrates with Avcom's EVO-GUI
- Comprehensive API for Easy Integration
- Extended Temperature Range
- Low SWaP (Size, Weight, and Power)



TECHNICAL SPECIFICATIONS

RF

INPUT CONNECTOR:	MMCX, 50 Ohm
INPUT FREQUENCY RANGE:	950 to 2150MHz
TUNING STEP SIZE:	1kHz
INPUT LEVEL RANGE:	-10 to -100 dBm
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-Select: 0.25 Hz, 0.5 Hz, 1.0 Hz, 2.0 Hz, 3.0 Hz

TECHNICAL SPECIFICATIONS Cont.

PARAMETER	PERFORMANCE
SEARCH/TRACK RATE:	User-Selectable: 10 Hz, 25Hz
ACQUISITION TIME:	<1 second typical
ADJUSTABLE DELAY BEFORE LOCK:	0 to 5000 milliseconds
BEACON TYPE:	CW, BPSK (No Demodulation)
ACQUISITION/TRACKING LEVEL	Minimum C/No, -39 dB-Hz
M & C	
ETHERNET:	10/100; Magnetic elements must be provided on host board
IP ADDRESS:	DHCP or Static
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:	40-pin/(2x20), 2mm pitch header, board-2-board connector
ANALOG SIGNAL STRENGTH INDICATOR OUTPUT:	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 10 VDC
DIGITAL LOCK INDICATOR OUTPUT POLARITY:	Adjustable (H=LOCK or L=LOCK)
POWER	
CONNECTOR:	40-pin/(2x20), 2mm pitch header, board-2-board connector
POWER SUPPLY:	5 VDC, 12 VDC; 2.5W
PHYSICAL	
DIMENSIONS:	42mm x 70mm x 10mm (BR-MOD-1 board only) 55mm x 72mm x 14mm w/optional carrier board
WEIGHT:	6 oz; 170g
ENVIRONMENTAL	
OPERATING TEMPERATURE:	-40°C to 70°C
STORAGE TEMPERATURE:	-40°C to 85°C
HUMIDITY:	0 to 95%, non-condensing
OPERATING ALTITUDE:	40,000 ft

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