

SBS2-2150E

Embedded Single Board L-Band Spectrum Analyzer



- Small Form Factor - SWaP (Size, Weight, And Power)
- Designed To Be Integrated Into OEM Systems
- Excellent For Satcom On-The-Move (SOTM)
- Rugged Design With Extended Temperature Range
- Precise And Accurate Amplitude And Frequency Response
- Full Remote Control And Monitoring Via Ethernet/USB Using Free GUI Software
- Posix Compliant "C" - Access Via Available API
- 10Mhz Reference Signal Viewing Capability
- 3kHz Resolution Bandwidth Option Available

Compact Design

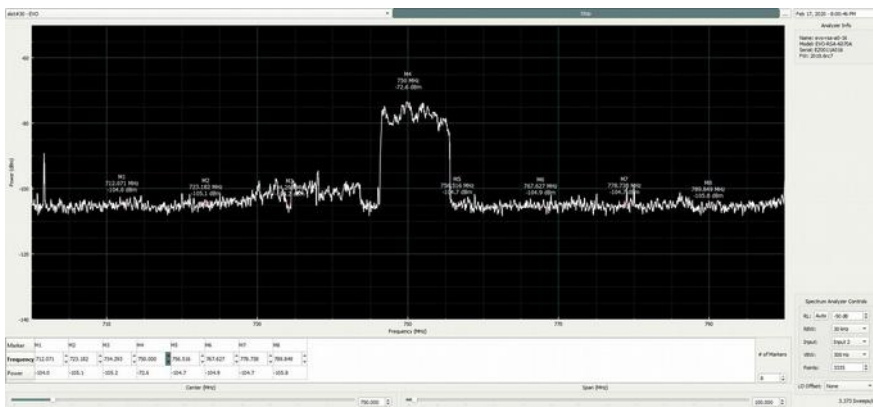
The SBS2-2150E is the well established Avcom product that was designed from the ground up with the system integrator in mind. The compact design measures 3.75" x 5.75" (9.525 x 14.605cm) so that it can easily be integrated into another piece of equipment, inside a small satellite terminal, or as an integral part of the satellite antenna itself.

Performance & Specifications

The SBS2-2150E input covers an extended L-Band frequency of 950MHz to 2150MHz and will also allow monitoring of a 10MHz reference signal. The single board design only requires an external input voltage, accepting a wide range of +15 to +24VDC @ 7W. Communication is provided via Ethernet or USB. The single board supports both commercial Ethernet and USB connectors or header connectors for easier embedded system integration. Along with resolution bandwidths of 1MHz to 10 kHz, a 3kHz RBW option is available for applications requiring very detailed signal analysis. SBS2-2150E allows changes to the number of data points used if application needs to optimize refresh rate verses resolution. The data point number can be adjusted from 1-4000 points in the control software.

Versatile Remote Control Software (GUI)

The EVO-GUI (Graphical User Interface) is an excellent tool to access, monitor, and control the analyzer functions, alarm monitoring, and data logging features. The system can be accessed via ethernet. A POSIX-Compliant API is available.



“Following the Signal”, and listening to our customers, this series is perfectly suited to provide functionality in earthstations, teleports, and RF signal monitoring environments. The EVO Series of analyzers is an excellent addition to the Avcom family of products for demanding applications which require the extended performance characteristics, while still providing low cost-of-ownership and a highly cost-effective and reliable professional product.

TECHNICAL SPECIFICATIONS

FREQUENCY COVERAGE:	950MHz - 2150MHz (L-Band) 8MHz - 12MHz
SPAN WIDTH:	0 to 1250 MHz (L-Band) 0 to 2MHz (10MHz Reference)
RESOLUTION BANDWIDTH:	10kHz, 30kHz, 300kHz, 1MHz
RF SENSITIVITY:	-115 dBm at 10kHz RBW typical
REFERENCE LEVEL:	950MHz - 2150MHz Selectable 0 dBm to -40 dBm in 1 dB steps 10MHz - Fixed at 10 dBm
SCALE:	1-10 dB/Div
DYNAMIC RANGE:	75 dB or greater typical
AMPLITUDE ACCURACY:	± 1 dB typical
FREQUENCY ACCURACY:	± 1 kHz typical
ADJUSTABLE DATA POINTS:	1 - 4000
INPUT CONNECTOR:	50Ω "SMA" is standard.
OPERATING TEMPERATURE RANGE:	-30°C to +70°C
SIZE:	3.75"(9.525cm) W x 5.75"(14.605cm) L x 1.1"(2.794cm) D
WEIGHT:	0.8lbs/360g
POWER	
CONNECTOR:	2-pin Header. Pigtail supplied.
POWER SUPPLY:	15 to 24 VDC, 7W
ENVIRONMENTAL	
OPERATING TEMPERATURE:	-30°C to 70°C
STORAGE TEMPERATURE:	-40°C to 85°C
HUMIDITY:	0 to 95%, non-condensing

Specifications subject to change. ©2021 Avcom of Virginia, Inc. Rev 2 v2101

Options:

-3kHz RBW

-Please contact Avcom for custom mounting configurations for adapting the SBS2 into your system.