AVCOM Of Virginia Inc.
7729 Pocoshock Way
N Chesterfield, VA 23235
804-794-2500

# SBS2-2150E

## Single Board Embedded L-Band & 10MHz Reference Spectrum Analyzer

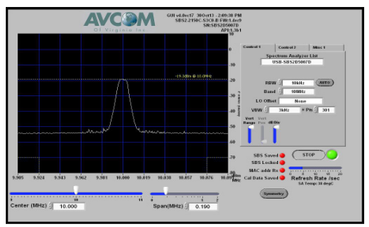
- Small Form Factor - SWaP (Size, Weight, And Power)
- Designed To Be Integrated Into OEM Systems
- Designed For Satcom On-The-Move (SOTM)
- Rugged Design With Extended Temperature Range
- Precise And Accurate Amplitude And Frequency Response
- Full Remote Control And Monitoring Via Ethernet/USB Using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

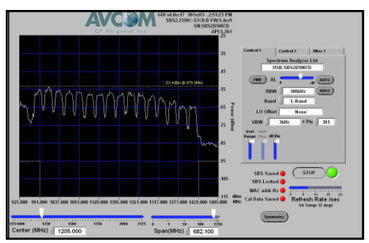
### *Small Compact Design*

*The SBS2-2150E is the latest Avcom product 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 SBS2 can provide discrete remote monitoring and control from anywhere in the world. The SBS2 is monitored and controlled using the Avcom Remote Control Software (GUI) via USB, or Ethernet. The Remote Control Software (GUI) has an intuitive user interface that is easy to use with no special training required. SNMP for alarm/monitoring, markers, and Automated Data Acquisition (DAQ) with tolerance comparison, and integrated email alerts to name a few. Up to twelve windows can be displayed at one time. The Avcom GUI will run on the WINDOWS XP, 7, 8, and Vista platform.*



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## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **FREQUENCY COVERAGE:** | 950MHz – 2150MHz (L-Band)<br>8MHz - 12MHz |
| **SPAN WIDTH:** | 0 to 1250 MHz (L-Band)<br>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<br>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 |



*Options:*
*-3kHz RBW*
*-Please contact Avcom for custom mounting configurations for adapting the SBS2 into your system.*

*Accessories include universal AC adaptor (100 to 240Vac), AC cord, PC software, and Ethernet cable.*

For ordering information visit www.avcomofva.com or call 804-794-2500