AVCOM
Of Virginia Inc.

RSA SERIES

Rack Mount 1.1GHz, 2.5GHz, & L-Band Remote Spectrum Analyzer

- Monitor And Control Multiple Terminals From Anywhere In The World From One Central Location
- Teleport Ready
- 1U Rack Mount Chassis
- Easily Integrated Into OEM Applications
- Up To 6 Inputs Are Available
- Precise And Accurate Amplitude And Frequency Response
- Full Remote Control And Monitoring Via Ethernet/RS-232 Using Free Remote Control Software
- Options Include Extended Amplitude Range Solutions, Down Converters For Extended Frequency Coverage, And LNB Power

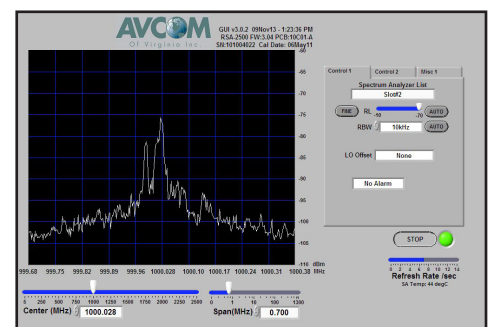### Rack Mount Design for Remote Monitoring And Control

If you go to any teleport there is a good chance that you will see an AVCOM RSA spectrum analyzer sitting in the rack. The RSA offers the integrator total flexibility in a 1U chassis. Configuration option makes the RSA the spectrum analyzer of choice with many SATCOM companies. The RSA can support up to 6 inputs, and when combined with a 1U ETL switch, the user can monitor and control as many inputs as desired. It should be noted that individual inputs cannot be monitored simultaneously with the RSA, but up to 12 different RSA's can be monitored simultaneously from a central location using the AVCOM remote control software. Other options include choice of input connectors, LNB power, preamps if trying to view very small signals, attenuators if viewing very large signals, and down converters for viewing higher input frequencies. Whether you need a custom design or a simple design for your SATCOM needs, the RSA offers versatility at its best.

Performance & Specifications

The RSA is designed for the measurement and analysis of communications and broadcast carriers, making uplink, downlink, L-Band carriers, IF, and 10MHz reference signals easy to measure, monitor, and store. The RSA provides excellent frequency and amplitude accuracy along with resolution bandwidth (RBW) selection from 10kHz to 1Mhz. This is required to allow viewing and monitoring of small Telemetry, Tracking, Command Systems (TT&C), data carriers found in many satellite communications markets, spread spectrum, and Wi-Fi as well. Making the RBW smaller is like zooming in on a carrier and magnifying a smaller portion of it to see more detail of the signal.   Variable reference levels (RL) from -10dB to -50dB make viewing of smaller to larger signals possible. Zoom provides viewing at -2 dB RL for close up inspection when doing signal analysis. This also makes peaking a satellite dish a snap.

Versatile Remote Control Software

The RSA can provide discrete remote monitoring and control from anywhere in the world. The RSA is monitored and controlled using the Avcom Remote Control Software via serial port, USB, or Ethernet. The Remote Control Software has an intuitive user interface that is easy to use with no special training required. It allows remote monitoring and control from your network or over the internet. Features include screen shot capture recording, 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 Remote Control Software is available for Windows, Mac, and Linux.

TECHNICAL SPECIFICATIONS

FREQUENCY RANGE:	RSA-1100B: 5MHz – 1,100MHz RSA-2500B: 5MHz – 2,500MHz
SPAN WIDTH:	Up to 1300 MHz (Dependent on Center Frequency)
RESOLUTION BANDWIDTH:	10KHz, 100KHz, 300KHz, 1MHz
RF SENSITIVITY:	Greater than -85 dBm Typical
REFERENCE LEVELS:	Selectable -10 dBm to -50dBm in 5 dBm increments
SCALE:	5 dB/Div & 2 dB/Div
DYNAMIC RANGE:	50dBm GUI window
AMPLITUDE ACCURACY:	± 1 dB typical
FREQUENCY ACCURACY:	± 1KHz typical
MAX RF INPUT:	25 VDC MAX (DC Blocked), +30dBm (1W)
INPUT IMPEDANCE:	50 Ω
AMPLITUDE RANGE:	0 dBm to -85 dBm (standard) 0 dBm to -105 dBm (preamp option) +10 dBm to -65 dBm (attenuator option)
INPUT CONNECTOR:	Input 1: "BNC" is standard. F, TNC, SMA, N available. Inputs 2-6: Optional
OPERATING TEMPERATURE RANGE:	-10°C to +60°C
SIZE:	19" W x 18" L x 1.75" H
WEIGHT:	7lbs
POWER REQUIREMENTS:	+15 VDC/9W

Specifications subject to change. ©2015 Avcom of Virginia, Inc.v011515

Options

- Up to six inputs in any combination (BNC, F, TNC, SMA, and N available)
- Preamp (-70dBm Reference Level)*
- Attenuator (+10dBm Reference Level)*
- LNB power*
*Available on inputs 1-6, individually

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