CLM SERIES

Compact Clamshell 2.5GHz & L-Band Remote Spectrum Analyzer

- Ultra Compact Single Board Clamshell Design
- Easily Integrates Into Constrained Areas Where Space Is Critical
- Can Be Used As A Compact Fully Enclosed Standalone Remote Spectrum Analyzer
- Can Be Implemented Into OEM Applications
- MIL-STD 810F/G Certified
- Precise And Accurate Amplitude And Frequency Response
- Full Remote Control And Monitoring Via Ethernet/USB/RS-232 Using Free Remote Control Software (GUI)
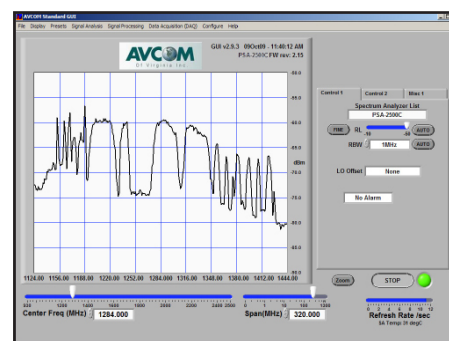
Ultra Compact Self Contained Design

If your design or application has space limitations, the CLM spectrum analyzer is the solution to your needs. Being self contained and no switches to worry about, the CLM can be mounted on the wall, floor, or top of a rack using the optional CLM-WMK mounting kit. The only thing needed is external power to the CLM in the range of +15V to +24Vdc, and the clamshell is ready for use. The CLM can also be used as a compact standalone spectrum analyzer, embedded into a system design, or concealed somewhere for covert signal monitoring purposes. The CLM has been MIL-STD 810F/G certified, and has been used in military applications as well as maritime applications where it has been mounted in the hull, and under the console of ships and super yachts. The CLM easily fits into a laptop computer carry-on bag. Ethernet/USB/RS-232 connectivity adds flexibility when interfacing into a system.

Performance & Specifications

The CLM 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 CLM provides excellent frequency and amplitude accuracy along with resolution band-width (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 maximizing a satellite dish a snap.

Versatile Remote Control Software

The CLM can provide discrete remote monitoring and control from anywhere in the world. The CLM 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:	CLM-2150B: 950MHz – 2,500MHz CLM-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
INPUT CONNECTOR:	BNC is standard. F and SMA available.
OPERATING TEMPERATURE RANGE:	-10°C to +60°C
SIZE:	6" W x 8.5" L x 2" H
WEIGHT:	2lbs
POWER REQUIREMENTS:	+15 to 24 VDC/9W

Specifications subject to change. ©2014 Avcom of Virginia, Inc. v120114

Accessories include universal AC adaptor (100 to 240Vac), AC cord, PC software, RS-232 and Ethernet cables.