



FEI-Elcom Tech

AESM

Advanced Electronic Spectrum Monitoring System

FEATURES

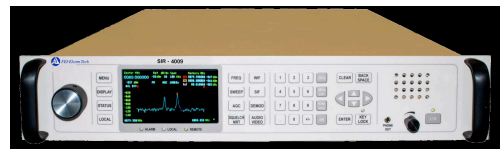
- High Bandwidth : - 20MHz to 40GHz
- Dynamic Range : -120dBm to 10dBm
- Test Instantaneous Bandwidth (IBW): 1.0 GHz
- Optional Test Instantaneous Bandwidth (IBW): 1.2GHz and 1.6GHz
- Fast Switching Synthesizer with 20 Hz Tuning Resolution
- Resolution BW (RBW): 10KHz to 10MHz for the 1.6 GHz IBW, 10Hz for 40MHz around the detected strongest signal
- Excellent Phase Noise Performance: $< 0.5^\circ$ RMS
- 3GHz to 40GHz Converter to L band output
- 20MHz to 4000MHz filtered bypass for direct sampling
- Spurious Free Dynamic Range: 63 dBc.

BENEFITS

- Gapless recording of the 1.0 GHz IBW , Timestamped
- Omni and directional antennas options
- Data analytics and AI options for the recorded signals
- High probability of intercept (POI): 1- microsecond Pulse
- Wideband Output: with 1000, 1200, 1600 and 2000MHz IBW
- Small Signal Sensitivity: -130dBm with 30 dB gain
- Output 1 dB compression: 10 dBm



Leverages multiple COTs products including Keysight Pathwave Vector Signal Analysis



At the heart of the AESM is the FEI-ElcomTech Inc. SIR4009 RF Front End