

SIGN4L

COMINT



A comprehensive solution, designed to capture and analyze signals across a wide frequency range, including UHF/VHF frequencies.

SPECIFICATIONS

USE CASE

- Real-time tracking signals of interest

KEY FEATURES

- Real-time tracking signals of interest
- Frequency Range 20MHz – 6000MHz
- Tactical System User Interface
- 2 Channel Instantaneous Capture

COMPONENTS

- Indoor equipment to be installed in 19” compliant rack (3U space)
- Antennas to be installed in client provided system mast

SPECIFICATIONS^①

Hardware	
Frequency Range	20MHz to 6000MHz
Receiver	Up to 1GHz total instantaneous bandwidth
Polarization	Vertical
Spectrum scan speed	>100GHz/s
I/Q streaming	Up to 20MHz bandwidth
Instantaneous Bandwidth (MHz)	500MHz @ 25kHz 250MHz @ 12.5kHz 125MHz @ 6.25kHz 80MHz @ 6.25kHz 40MHz @ 6.25kHz
Minimum Resolution BW	500Hz
Maximum Input Power	10dBm
Minimum detectable signal	<-120 dBm (at 500 Hz resolution)
Environmental	Designed to MIL-STD-810G

^① All specifications provided herein are indicative values and figures, and there may be reasonable deviation from the same.

Software	
Interface	Server / Client architecture
Display Options	Power Spectrum Waterfall
Receiver Modes	Instantaneous & Scanning
Software options	Standard package: - Max Hold - Noise Floor Average - Noise Floor Detection (Noise Floor Riding) - Frequency Blocking - Frequency Tuning - BW & Resolution Control - Signal Recording - Offline Playback - Map display Additional options available upon request: - Classification - Demodulators - Decoders
Gain Control	Manual & Automatic
Automatic triggers	Automatically capture emissions based on predefined triggers
Self-Monitoring	Alarm for no Ethernet connection Alarm when configured trigger is activated Alarm when cannot detect RF signal while the system is running
Command and Control	Integrated C2

DEPENDENCIES

- Shelter for the system provided by the Client should provide reliable power supply, network connectivity and cooling.
- System mast for antennas provided by the client.
- 3U space in rack for server and PSU must be provided by end user.