

In-Vehicle Real-Time Spectrum Analyzer SA1412M



Overview

In-Vehicle Real-Time Spectrum Analyzer SA1412M is designed as a full-featured mobile real-time spectrum analyzer to monitor and detect signals in areas, such as rugged terrain, non-populated areas, mountains, fields.

The system is based on NI PXIe platform and the software is developed in the NI LabVIEW graphical programming environment.

The System on Vehicle (SoV) consists of RF spectrum analyzer with integrated FPGA, vehicle mounted antenna, vehicle mounted rack and power generator, rack-mount LCD monitor and hard disk array to record the signal.

Widest frequency bandwidth will allow to detect all the signals up to 765MHz of instant bandwidth. Record/playback feature allows to record RF signal with GPS timestamp and coordinates for offline analysis of the recorded signal.

Features

- Extra-wide bandwidth
- Low phase noise
- High antenna gain
- Vehicle adopted chassis
- Intuitive user interface
- Record/playback with GPS timestamp

Technical specifications*

- Real-Time spectrum analyzer from 20Hz up to 26.5GHz
- Up to 765MHz of instant bandwidth
- Multistage architecture
- -129dBc/Hz phase noise at 10kHz offset (800MHz center frequency)
- -166dBm/Hz noise floor at 1GHz
- Up to 12 hours of recording time (100MHz bandwidth)

Required hardware and software

- NI PXIe platform with RF modular instruments
- NI MKD Rack-Mount 1U LCD Monitor, Keyboard, Mouse
- NI HDD array
- Vehicle mounted rack
- Vehicle mounted RF antenna (depends on customer requirements)
- Power generator
- «Hermes» family software
- SUV

* For detailed technical specifications, please contact us