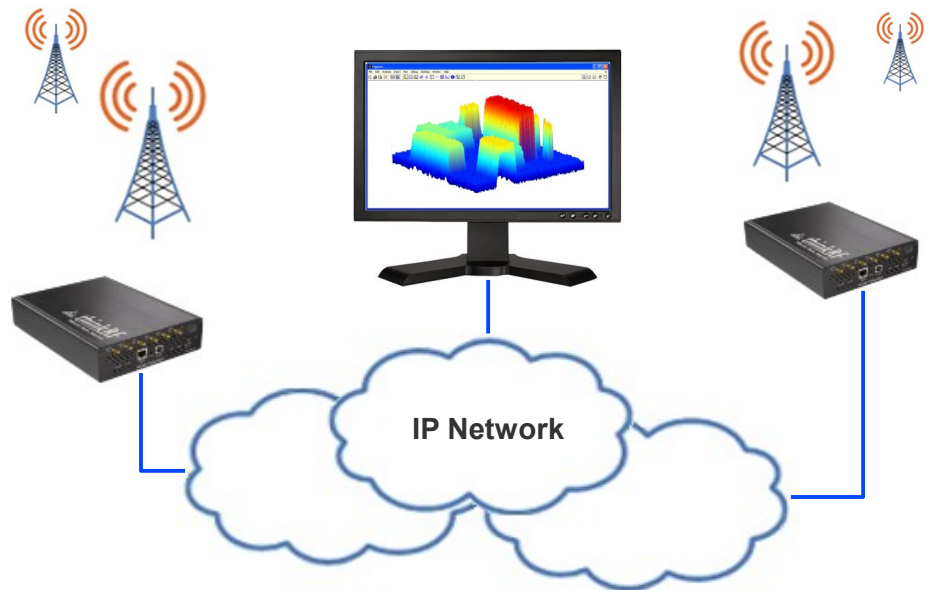


RF Monitoring and Interference Mitigation for all Wireless Networks

ThinkRF's WSA4000-108 RF Analyzer enables the central RF monitoring and interference mitigation of wireless network deployments thereby avoiding truck-rolls of expensive equipment and personnel

Industry Leading

- Integrated RF receiver, digitizer and analyzer
- 100 kHz to 10 GHz tuning with 100 MHz IBW, 200 GHz/sec scan rate and 1 Hz RBW
- Spectrum analysis measurement functions
- Real-time sophisticated search and loss-less capture of signals of interest
- USB and Gigabit Ethernet connectivity
- Stand-alone, remote and/or distributed deployment
- Support for third-party applications via standard APIs
- MATLAB, Octave and GNU Radio interfaces
- Support for direction finding and geo-location
- Integrated GPS and digital signal processor



Overview

The ThinkRF WSA4000 Wireless Signal Analyzer is a high-performance software-defined RF receiver, digitizer and analyzer. It is designed for stand-alone, remote and/or distributed wireless spectrum monitoring and signal analysis applications. With the WSA4000 users can remotely diagnose and troubleshoot wireless interference issues.

The WSA4000 supports data acquisition and visualization of the wireless environment through standard APIs and third-party application support such as MATLAB, Octave and GNU Radio. MATLAB and Octave applications provides time-domain, statistical and spectrum analysis measurements.

The WSA4000 has a real-time hardware signal search engine that enables the identification and capture of signals of interest. Effective signal search and user-defined triggers combined with high speed connectivity ensures that the WSA4000 is network efficient.



RF Monitoring and Interference Mitigation for all Wireless Networks

Technical and Application Overview

The ThinkRF WSA4000 Wireless Signal Analyzer is a high-performance and integrated software-defined RF receiver, digitizer and analyzer.

Measurement Functions

Spectrum Analysis

- Channel Power, Adjacent Channel Power, Multicarrier Adjacent Channel Power/Leakage Ratio, Occupied Bandwidth

Time Domain and Statistical

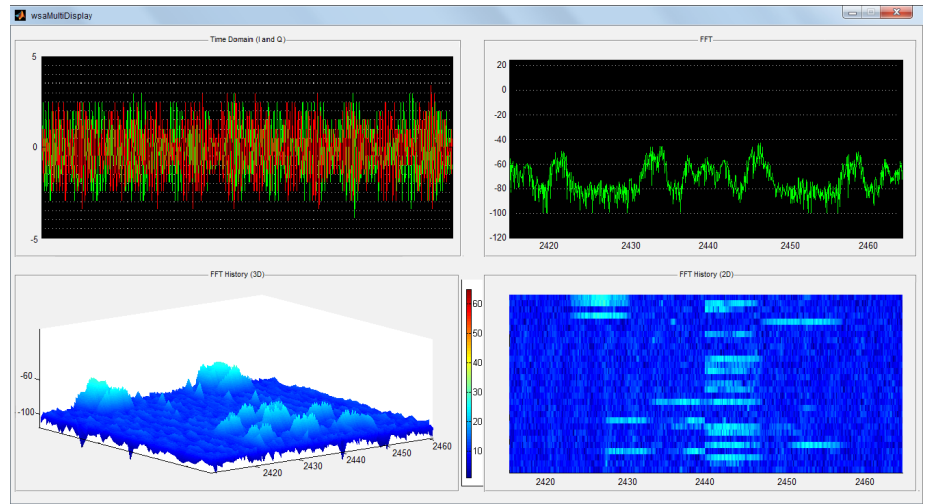
- RF IQ vs. Time, Power vs. Time, Frequency vs. Time, Phase vs. Time, Peak-to-Average Ratio

Spur Search

- user-defined detectors

Data Acquisition and Spectral Analysis

The WSA4000 allows digitized wireless signal data to be passed directly to Octave, MATLAB and/or MATLAB communications system or signal processing toolboxes. ThinkRF provides MATLAB and Octave applications for visualization and measurement of the RF in time and frequency domain. MATLAB and Octave source code and applications examples are available for user customization. Data can also be stored directly to file in CSV format for post digital processing.



Contact Us

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Product specifications and descriptions in this document are subject to change without notice.

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Fast and Flexible Scanning

ThinkRF has a patent-pending software-defined RF receiver that provides the performance of high-end real-time lab spectrum analyzers at a low cost that enables large-scale deployment. It has an industry leading 100 MHz wide instantaneous bandwidth and can scan the spectrum at a rate of more than 200 GHz per second to enable reliable monitoring of entire bands of communications. Sophisticated user-definable scan lists and triggers enable spectrum analysis of wide frequency ranges and/or specific frequencies.

Application Support

The WSA4000 provides both USB connectivity for stand-alone applications and Gigabit Ethernet for stand-alone, remote and distributed applications. Standard network interface protocols include VITA 49 Radio Transport (VRT) and Standard Commands for Programmable Instruments (SCPI) standard protocols.

