



The Leader in Software-Defined Spectrum Analysis



More flexibility

Open APIs and proven integrations to build complete solutions



Greater coverage

Compact form-factor so you can deploy remotely and monitor in more locations



Increased functionality

Feature richness to detect complex waveforms in real-time



Better ROI

Upgrade without replacing equipment to analyze new technologies



Monitoring is Changing

The ubiquity of wireless communications has led to a rapidly evolving spectrum environment over the past decade. Today, the pace of change continues to accelerate as the number of connected devices increases and new innovations and standards, such as 5G and IoT, are deployed. New sources of interference, both inadvertent and malicious, are having a greater impact on people's lives as the world becomes reliant on consistent and uncongested spectrum.

Applications such as technical surveillance countermeasures (TSCM), signals intelligence (SIGINT), and spectrum monitoring require spectrum analysis equipment with frequency and bandwidth performance well above what was previously acceptable. Similarly, requirements for signal analysis & demodulation and telecom planning, optimization, and management have increased as new standards have been deployed and waveforms have become more complex.

Combined with a growing shift toward distributed and in-place monitoring, shrinking equipment budgets, and a denser signal environment it's clear that traditional lab and handheld spectrum analysis solutions are no longer suited for today's monitoring applications.

Advantages of Software-Defined Spectrum Analysis

Organizations need to overcome the limitations of traditional hardware with software-defined spectrum analysis solutions. Developed from patented software-defined radio (SDR) technologies that leverage advances in software-defined radio, ThinkRF platforms are designed and built for complex signal environments that require more flexibility, greater coverage, increased functionality, and better ROI.

Software-Defined Spectrum Analysis platforms:

- Provide increased flexibility and versatility to capture any signal of interest
- Achieve the best price-performance ratio in a compact form-factor
- Leverage the high computing power and low cost of any PC to further reduce size, weight, and power (SWaP)
- Can be easily upgraded through software to overcome the hardware limitations of built-in capabilities
- Integrate easily with third-party applications, software, and hardware to allow users to build the right solution for their specific requirements
- Are networked for remote deployment or in-place monitoring from any location
- Can be deployed in a vehicle or other mobile deployment scenario from any location.

Solutions



RF Application Development

Developing a new RF application to meet customer requirements can be challenging when facing budget and time pressures. RF application developers need an open approach to spectrum analysis including a rich suite of APIs, programming environments, and standard controls so that they can integrate hardware and software together into larger solutions.



Technical Surveillance Countermeasures

Technical surveillance countermeasures (TSCM) is a critical component in keeping day-to-day operations safe from internal and external threats. TSCM users require a solution that is remotely deployable in complex signal environments and capable of detecting low powered, intermittent, and unknown signals of interest.



Signal Intelligence

Signals intelligence and electronic intelligence (SIGINT/ELINT) are critical components of situational awareness and command and control (C2) systems. SIGINT users require a solution that is compact and portable to be used in the field and capable of detecting unknown, faint, intermittent, and short duration signals.



Spectrum Monitoring

Today's complex and diverse spectrum environment looks nearly unrecognizable from a few years ago, and it continues to evolve at a rapid pace. Spectrum monitoring users require a solution that is networked for remote deployment, easily upgraded to capture new signal standards, and flexible to be used in a variety of deployment scenarios.



Signal Analysis & Demodulation

Signal analysis has become more complex with so many signal standards and modulation types. Users need to perform consistent analysis across applications and deployments, reach deeper into signals in time, frequency, and modulation domains, and isolate unexpected interactions.



Telecom Planning, Optimization & Management

The speed at which the wireless spectrum environment is changing is causing new challenges for telecommunication companies deploying wireless infrastructure. Users require equipment with higher frequency and bandwidth capabilities for 5G than previously needed for 3G/4G/LTE deployments.

ThinkRF Platforms

An Open Approach to Spectrum Monitoring

ThinkRF is the leader in software-defined spectrum analysis platforms that monitor, detect, and analyze complex waveforms in today's rapidly evolving wireless landscape. ThinkRF and its application ecosystem helps RF application developers, RF engineers, CTOs and monitoring program managers see the full picture.

Real-Time Spectrum Analyzers

- Best price-performance ratio available on the market
- Purpose built networking capability designed for remote deployment
- Compact form-factor and low size, weight, and power



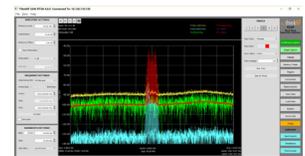
RF Downconverter

- Extend frequency and bandwidth performance of any third-party spectrum analyzer
- Compact, portable, and suitable for a variety of deployment scenarios
- Best price-performance ratio available on the market



Spectrum Analysis Software

- Seamlessly integrate with ThinkRF Real-Time Spectrum Analyzers
- Cost-effective analysis software that doesn't sacrifice performance
- Easy to use, intuitive software presented in a clean, professional package



Enablers

- Enable ThinkRF platforms to seamlessly integrate with leading software applications
- Allow users to build a complete spectrum analysis solution
- Extend the capabilities of ThinkRF for users with advanced measurement requirements



ABOUT THINKRF

ThinkRF is the leader in software-defined spectrum analysis platforms that monitor, detect and analyze complex waveforms in today's rapidly evolving wireless landscape. By providing more flexibility, greater coverage, increased functionality and better ROI, ThinkRF solutions are ideal for regulatory and intelligence monitoring, telecom deployment optimization and RF application development. With open APIs and proven integrations, ThinkRF offers the only compact and networkable spectrum analyzer that can be deployed without a PC and the best price to performance on the market. Founded in 2006, ThinkRF is headquartered in Ottawa, Canada with offices and partners globally.

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