

## RADX Announces Industry’s Highest Performance Wideband Real-Time Spectrum Analyzer (RTSA) at IEEE IMS 2016

***New 26.5 GHz LibertyGT 1410 Achieves Watershed 100% POI with Full Accuracy on 320 Nanosecond Minimum Duration Signals by Harnessing 765 MHz Analysis Bandwidth and up to 62 Million FFTs per Second DSP Throughput Capability***

**SAN FRANCISCO, CA, Monday, May 23, 2016** -- RADX® Technologies, Inc. (“RADX”) announced today at the IEEE International Microwave Symposium (IMS 2016), the LibertyGT® 1410 (LGT1410), a new Real-Time Vector Signal Analyzer (RTVSA) that includes the highest performance, wideband Real Time Spectrum Analyzer (RTSA) available today and the only high performance RTSA available in a PXIe-based modular system. With up to 765 MHz analysis bandwidth and real-time Digital Signal Processing (DSP) throughput of up to 62 million FFTs per second, the LGT1410 can detect and analyze (with full accuracy) intermittent signals between 20 Hz and 26.5 GHz with 100% Probability of Intercept (POI) and a minimum duration of only 320 nanoseconds. The LGT1410 is the first commercial instrument to achieve this record level of RTSA performance, which is between three and ten times better than competitive instruments.

Wideband RTSA capabilities are essential for detecting, capturing and analyzing modern frequency-agile transient and inherently elusive signals. The LGT1410’s RTSA features an intuitive, 1080p HD touchscreen optimized graphical user interface and easy-to-program API that allows users to readily optimize the system for Resolution Bandwidth (RBW) for small amplitude signals, minimum duration with 100% POI for short duration signals, or combinations thereof. With its unmatched RTSA capability, wide analysis bandwidth, sensitivity, and large frequency range, the LGT1410 is ideal for mission critical RF and microwave test and measurement (T&M) applications including next-generation wireless communications, electronic warfare, military communications and radar.

RADX will demonstrate the LGT1410R and RTSA, along with the LGT1211B Modular, COTS, Benchtop, 6 GHz Automated Test System (ATS), featuring enhanced Spectrum/Waveform Record & Playback and Radio Test capabilities, in RADX Booth #1526 (in the National Instruments Pavilion) at IMS 2016. For more info, please visit [www.radxtech.com](http://www.radxtech.com).



**RADX LGT1410 RTSA-2 Screenshot Showing Real-Time Displays and Intuitive Touchscreen Controls**

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File: RADX Announces LGT1410 with Highest Performance RTSA at IMS 2016 MON 23MAY16 (V1.8 20MAY16)

## Unique, Modular, PXIe Architecture

Unlike proprietary, "boxed instrument" RTSAs, the LGT1410 is the only commercially available, integrated, multifunction, touchscreen, real-time signal analyzer that features a modular, PXIe-based architecture. As with other LibertyGT systems, the LGT1410 is a Software Defined Synthetic Instrument® (SDSI) that combines RADX award-winning, patented and patent-pending real-time Measurement Science Firmware and Software (MSFS), value added hardware, intuitive touchscreen user interface and easy-to-program API with PXIe modules and LabVIEW™ software from National Instruments® (NI)—the global leader in PXIe technology. This unique combination provides unparalleled scalability, upgradeability and technology insertion capability that minimizes obsolescence, repair and test program portability issues that plague box instruments and which enables the LGT1410 to dramatically reduce total cost of ownership, which is vital for cost-sensitive, long-life-cycle applications.

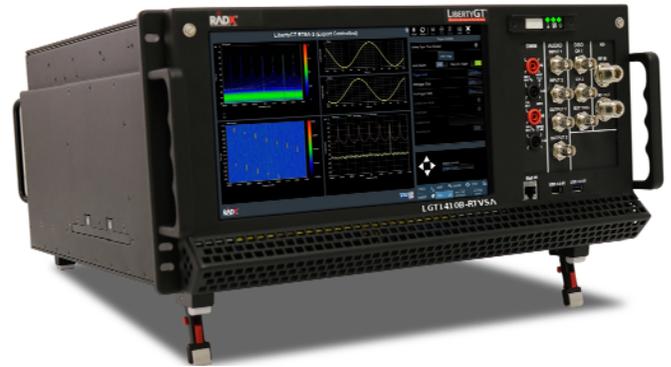
*"The combination of RADX real-time, Xilinx® FPGA based MSFS and National Instruments PXIe technology enables the LGT1410 to deliver 10x better RTSA performance than boxed instruments from key industry leaders—while simultaneously providing the unique benefits that come from its modular, PXIe-based, SDSI architecture, best-in-class GUI and open-standard programming interface, all at a price point that is equal or better than comparable, single-purpose box instruments,"* said Ross Q. Smith, RADX co-founder and CEO. *"For the first time ever, real-time, wideband signal analysis customers no longer have to compromise on performance, price, usability or modularity, since the LGT1410 delivers the best in class on all fronts."*

## About the LGT1410-RTVSA

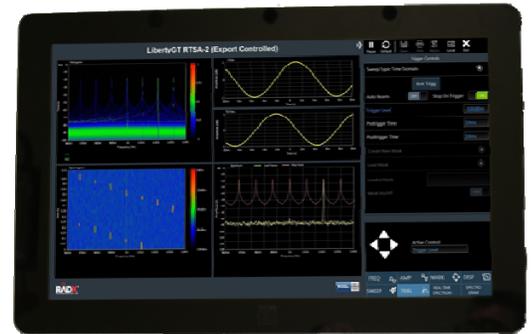
To achieve its industry leading wideband RTSA performance, the LGT1410 combines RADX FPGA-based, real-time MSFS with NI PXIe modules, including the NI PXIe-5668R 26.5 GHz Vector Signal Analyzer. The LGT1410R is packaged in a standard NI PXIe-1085 (24 GB/sec) 18-Slot PXIe chassis that comes with an external HD 1080p touchscreen. The LGT1410B includes the RADX patent-pending, 24 GB/sec, 18-Slot PXIe enclosure with integrated HD 1080p touchscreen and unique hinged front panel. The LibertyGT RTVSA MSFS included with both LGT1410 models features the LibertyGT RTSA-2 along with a comprehensive suite of high performance, real-time signal analysis Apps: Real-Time Vector Signal Analyzer (RTVSA), Spectrum Analyzer, Standard Modulation Analysis Library, Standard Spectrum Recorder, Bit Error Rate Tester, UUT Control App, Performance Verification Test, Alignment and the LibertyGT Remote/Local Programming Library that supports user developed test programs in Python, LabVIEW, TestStand, Java, C and C++. LGT1410 users may also add a wide range of modules, instruments, libraries and apps, including signal generation, digital storage oscilloscope, advanced modulation analysis, audio analysis and digital multi-meter, to transform the system into a complete, benchtop ATS.

LGT1211B customers may add the LGT RTSA-1 as a software upgrade (for use with the NI PXIe-5644R, with full accuracy detection and analysis of signals with minimum duration longer than 15 microseconds with 100% POI) or they may also upgrade to RTSA-2 with the purchase of an NI PXIe-5668R system for enhanced, wideband 26.5 GHz signal analysis capabilities. Test programs developed using the LibertyGT MSFS APIs are binary compatible with all LibertyGT systems, so LGT1211B test programs will run without change on LGT1410 and vice-versa.

*"The National Instruments PXIe-5668R VSA provides a great RF foundation for the LGT1410, so our challenge was to unlock its full potential by optimizing our MSFS for RTSA performance in the Xilinx® Kintex®-7 in the NI PXIe-7976R FlexRIO",* said Wade Lowdermilk, RADX CTO and Co-Founder. *"Given that we can sustain over 60 million FFTs per second and now achieve minimum duration signals with 100% POI that's an order of magnitude better than most of the competition, it seems we've made some good progress. And by giving users the ability to optimize the system for small amplitude or short duration, the LGT1410R with RTSA-2 should help our users address a wide range of RF challenges."*



**RADX LibertyGT 1410B-RTVSA**



**RADX LibertyGT 1410R-RTVSA**

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## Pricing and Availability

The LibertyGT RTSA-2 is available for purchase today as an option for an LGT1410B or LGT1410R system, as an LGT1410B Kit for System Integrators (that includes Enclosure, Embedded Controller and MSFS), as a Software Only Kit or as a Hardware/Software or Software Only upgrade for the LGT1211B. Lead time for the LGT1410 is 60 days ARO. NAFTA pricing for the LGT1410R-RTVSA including the RTSA-2 option starts at \$150,000 USD and includes an NI PXIe-1085 24 GB/sec Chassis, an external HD 1080p touchscreen, and a comprehensive suite of touchscreen optimized LibertyGT 26.5 GHz Signal Analysis MSFS. For more details please contact RADX at [info@radxtech.com](mailto:info@radxtech.com) or visit [www.radxtech.com](http://www.radxtech.com).

## About RADX

RADX is a DSP-focused small business that provides a wide range of cost-effective, high-performance, real-time COTS communications and test & measurement products and technologies to end-users, OEMs and system integrators at multiple levels of integration. RADX is a National Instruments Silver Alliance Partner with RF and Wireless Specialty Alliance Partner designation with a team of seasoned experts and decades of experience developing advanced, real-time Xilinx and Altera FPGA, multi-core CPU, and GPU-based solutions for consumer, commercial, aerospace, and defense applications in Software Defined Synthetic Instrumentation (SDSI), Software Defined Radio (SDR) and Cognitive Radio (CR) applications. The LibertyGT family is the recipient of the 2014 Frost & Sullivan Innovation Award for Global PXIe Products. For more information on RADX or the LibertyGT Family, please visit [www.radxtech.com](http://www.radxtech.com) or email [info@radxtech.com](mailto:info@radxtech.com).



## Press Kit

The Press Kit for this release is located at <http://ims.vporoom.com/RADXTech>. The PR contact for RADX is Ross Q. Smith, RADX CEO, who may be reached at [rossqsmith@radxtech.com](mailto:rossqsmith@radxtech.com) or at +1 (619) 677-1849 x 1.

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