News Release

Anritsu Adds IQ Capture, Streaming Capability to Field Master Pro™ MS2090A RTSA

— New Options Combine with Best-in-Class Wide Bandwidth, Long Memory, and Fast Transfer Speed to Provide Comprehensive Signal Analysis in General Purpose Applications —

Morgan Hill, CA – March 18, 2020 – Anritsu Company introduces IQ capture and IQ streaming options for its Field Master Pro™ MS2090A that make the real time spectrum analyzer (RTSA) the first handheld analyzer to capture 110 MHz of IQ data. When combining the new features with the best-in-class wide bandwidth, long memory, and fast transfer speeds, the MS2090A can conduct comprehensive spectrum analysis in a variety of general purpose applications, including military intelligence and government regulations.

With 110 MHz bandwidth and 200 MSps sample rate, the MS2090A can capture and stream twice as much data as any other handheld analyzer. Additionally, having IQ capture and streaming in RTSA mode allows for the capture and/or streaming of data without pausing the sweep, so users can monitor the spectrum visually while the capture is being conducted. The result is more information is acquired on spectrum surrounding bands of interest.

Of particular benefit for intelligence and government applications, the MS2090A RTSA can stream data to Bird Technology's IQC5000B dual-channel RF record and playback system. The turnkey solution enables 110 MHz of bandwidth to be streamed at 16-bit format and up to 15 TB of data to be stored. Powerful post-processing analysis, including evaluating data in various domains, replaying data as spectrum with full-time resolution, and smart algorithms to search for signals, can be performed. Data can also be streamed to a USB 3.0 drive or PC over Ethernet.

Signal data can be captured and segmented into I and Q samples with the options. Capturing the actual IQ data and analyzing it sample by sample allow the finest details of signal and spectrum behavior to be monitored. Additionally, unknown signals in spectrum where secure communications are required can be identified and evaluated to determine if they are harmless or nefarious. IQ data also allows regulation officials to gather more information on unknown signals to better locate and identify unauthorized communications in all bands, for more efficient spectrum clearing.

(more)

For 5G applications, the 110 MHz of capture bandwidth allows mobile operators to gather data on a full 5G NR signal in a single sweep. It can also post process the data to locate any anomalies that will adversely affect network performance.

IQ sample formats of 8, 10, 16, and 32 bits are available with the options. The higher bit depths provide greater resolution for highly accurate narrow bandwidth captures. In applications in which dynamic range is not essential, the lower bit depth can create more efficient storage and improve data processing time.

Field Master Pro MS2090A Outline

The Field Master Pro MS2090A RTSA provides a continuous stream of FFT measurements over a 110 MHz analysis bandwidth, as well as 2.055 µs probability of intercept (POI). The result is users can more accurately detect signals that are short in duration or hop compared to standard swept-tuned spectrum analyzers. Density and spectrogram displays are available to more easily identify and track intermittent or pulsed signals. Seven models are available with frequency coverage of 9 kHz to 9/14/20/26.5/32/43.5 and 54 GHz.

About Anritsu

Anritsu Company is the United States subsidiary of Anritsu Corporation, a global provider of innovative communications test and measurement solutions for 120 years. Anritsu's "2020 VISION" philosophy engages customers as true partners to help develop wireless, optical, microwave/RF, and digital solutions for R&D, manufacturing, installation, and maintenance applications, as well as multidimensional service assurance solutions for network monitoring and optimization. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. The company develops advanced solutions for 5G, M2M, IoT, as well as other emerging and legacy wireline and wireless communication markets. With offices throughout the world, Anritsu has approximately 4,000 employees in over 90 countries.

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