

Anritsu Company Introduces Industry's First Solution to Conduct True PIM Analysis Over Fiber and Present RF Spectrum Derived from IQ Data

— New IQ Fiber Master™ MT2780A Reduces Test Costs and Time Associated with Deploying and Maintaining LTE Systems with CPRI Front Haul —

Morgan Hill, CA – March 25, 2020 – Anritsu Company introduces the IQ Fiber Master™ MT2780A multi-port CPRI-based RF and PIM analyzer that is the first instrument to perform true PIM analysis over fiber and present RF spectrum results derived from IQ data. The MT2780A reduces test costs and time by providing field engineers, field technicians, and third-party contractors with a single instrument to conduct RF interference measurements and PIM troubleshooting on LTE-based systems using CPRI front haul infrastructure.

The IQ Fiber Master leverages patented PIM over CPRI and RF over CPRI measurement capabilities that allow tests to be conducted on the ground, significantly reducing tower climbs. Field engineers and technicians can use the MT2780A to scan the uplink RF signals of a remote radio head (RRH) for in-band interference while simultaneously conducting PIM over CPRI measurements. Supporting all Tier 1 LTE base station radio manufacturers, the single instrument solution can determine if KPIs are being affected by interference or PIM.

Analyzing CPRI IQ data allows users to view a radio's uplink spectrum for interference troubleshooting. The IQ Fiber Master measures PIM over CPRI with four SFP inputs, providing the ability to compare multiple bands and sectors, as well. Measurements are performed on live cell tower traffic signals, providing a unique method to conduct real-world testing that results in improved accuracy and no system downtime for test. As measurements are derived from baseband IQ data, the IQ Fiber Master can make measurements on any frequency RRH, or combination of frequencies of the RRH, providing a very cost-effective solution.

The IQ Fiber Master analysis results provide a full PIM diagnosis. It will report the presence of PIM, whether it is internal or external, and the distance to PIM. In addition, the unique and proprietary PIM heatmap quickly displays which transmitter contributes the most PIM. This collective diagnosis data shortens the entire PIM hunting exercise by directing field engineers and technicians to the most probable location and cause of the issues.

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For on-going monitoring, IQ Fiber Master can be installed at cell sites to conduct long-term PIM over CPRI measurements and provide analytical information. PIM-related problems, such as intermittent PIM occurring on specific days and times or changes in PIM due to base station load during the day, can be measured in this configuration. Reports of the measurements can be generated and used for comparative analysis.

The IQ Fiber Master MT2780A also serves as a band-less PIM testing solution that can be a carrier's first test tool when identifying an interference problem and its location. This helps to determine the most efficient course of action to follow.

All LTE bands are supported by IQ Fiber Master MT2780A. Extremely compact and lightweight, it weighs only 1 kg (2.2 lbs.) and measures 185 mm x 133 mm x 55 mm (2.1 in x 7.3 in x 5.2 in), so it fits in the palm of the user's hand.

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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Anritsu Contact:

Stacy Escobar
stacy.escobar@anritsu.com
408.201.1966

Agency Contact:

Patrick Brightman
3E Public Relations
pbrightman@3epr.com
973.263.5475