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News Release

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Highly Accurate Microwave USB Power Sensors with Range to 18 GHz Introduced by Anritsu Company

— *MA24108A and MA24118A Add High Accuracy Microwave Power Measurement Capability to Anritsu's Analyzers Used in Commercial and Aerospace/Defense Applications* —

Morgan Hill – For Immediate Release – Anritsu Company introduces the MA24108A/MA24118A microwave USB power sensors that provide accurate average power measurements from 10 MHz to 18 GHz over 60 dB of dynamic range. Employing a “dual path” architecture to achieve True-RMS measurement similar to a thermal sensor over the entire frequency and dynamic range, the power sensors can measure CW, multi-tone, and digitally modulated signals used in commercial and aerospace/defense systems.

Both sensors can either internally trigger or receive an external trigger signal, allowing them to conduct multi-slot and burst average power measurements of TDD waveforms, typically found in GSM, WiMAX, and TD-SCDMA signals. Unlike other sensors in the market, the MA24108A/MA24118A do not require a separate module for triggering. They have built-in external trigger circuitry with an MCX connector interface to receive triggers from external stimuli. Incorporating a micro-controller, signal conditioning circuitry, ADC, and power supply in the sensor makes it a miniature power meter.

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The MA24108A/MA24118A provide users with three modes of operation –Continuous Average, Scope, and Time Slot. A Scope mode allows power measurements to be displayed with respect to capture time of up to 300 ms. It is particularly useful when measuring non-periodic waveforms with video bandwidth up to 50 kHz. The time gating feature in the Scope mode enables measurement of the desired portion of a waveform that contains very short duty cycle timing information that otherwise skews average power measurement.

For TDMA waveforms, the Time Slot mode can be used. It breaks up the measurement into individual time intervals and calculates the average power reading of each. This feature allows entire frames of various communication signals to be analyzed with as many as 128 slots.

All three modes can be accessed via PowerXpert™ or through remote programming commands. PowerXpert is a Windows-based data analysis and control software developed by Anritsu. It has abundant features, such as data logging, power versus time graphs, and a big numerical display, that enable quick and accurate measurements.

Performance for R&D, Production and the Field

A compact design, high accuracy and affordability make the MA24108A/MA24118A well suited for any environment in which signal power must be measured. They can be used for R&D of general purpose and wireless devices and systems. The MA24108A/MA24118A facilitate lab quality measurements on the production floor at a fraction of the cost of alternative methods. Test time and handling is reduced because 1 mW calibration is not required for the sensors. Their ability to connect directly to a PC saves valuable rack space and because the sensors accept external triggering from other instruments, they can be used in ATE systems.

Designed for use in Continuous Average mode with Anritsu's Spectrum Master™, BTS Master™, and VNA Master™ handheld analyzers, as well as the MS271xB Economy Spectrum Analyzers, the MA24108A/MA24118A can conduct highly accurate power measurements on signals with bandwidths of >100 MHz. Field and services technicians can carry the compact, lightweight sensors in their shirt pockets or laptop case. Combining a wide operating temperature range of 0° C to 55° C, high damage level of +33 dBm, and ESD protection, the MA24108A/MA24118A are ideal for cellular base station and microwave point-to-point radio installation and maintenance applications.

Delivery is 4 weeks ARO.

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About Anritsu

Anritsu Company (www.us.anritsu.com) is the American subsidiary of Anritsu Corporation, a global provider of innovative communications test and measurement solutions for more than 110 years. Anritsu provides solutions for existing and next-generation wired and wireless communication systems and operators. Anritsu products include wireless, optical, microwave/RF, and digital instruments as well as operations support systems for R&D, manufacturing, installation, and maintenance. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. With offices throughout the world, Anritsu sells in over 90 countries with approximately 4,000 employees.

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