

Anritsu Introduces 4-port Broadband VNA System with Industry's Widest Frequency Coverage from 70 kHz to 110 GHz

— *VectorStar[®] ME7838A4 Delivers Broadest Differential Sweep, Best Stability, and Fastest Measurement Speed for Improved Differential Device Characterization* —

Morgan Hill, CA – May 18, 2015 – Anritsu Company introduces the VectorStar[®] ME7838A4 4-port broadband vector network analyzer (VNA) system that features the world's widest differential broadband sweep from 70 kHz to 110/125 GHz and utilizes the smallest mmWave modules to conduct highly stable and fast measurements when characterizing differential devices. The new ME7838A4 provides on-wafer and signal integrity engineers with a new level of performance when conducting differential measurements so they have greater confidence in their next-generation communications system designs.

A key advantage of the VectorStar ME7838A4 4-port broadband system is the integration of the 3743A mmWave modules. Utilizing an exclusive Anritsu design that incorporates nonlinear transmission line technology (NLTL), the modules are much more compact than competitive alternatives, for easy mounting on space-limited wafer probe station platens. Additionally, smaller and lighter modules improve overall performance, including superior raw directivity performance that results in superior calibration stability. Modules are available that can extend the VectorStar ME7838A4 to a 4-port 145 GHz system.

The VectorStar ME7838A4 4-port broadband system uses an internal substrate-mounted source for excellent thermal stability, resulting in industry best calibration and measurement stability of 0.1 dB over 24 hours. It also features best-in-class measurement speed of 55 ms for 201 points at 10 kHz IFBW.

Engineers benefit from unparalleled mmWave noise floor sensitivity and the industry's only available mmWave real-time electronic power leveling that eliminates the need for time-lagging software correction tables. Because internal frequency multiplication begins at 54 GHz in the VectorStar ME7838A4 compared to 67 GHz for other 4-port broadband systems, RF cable losses are reduced for improved dynamic range and phase stability.

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Installation and operating costs are reduced with the Vector**Star** ME7838A4. Probe station positioner costs are lower due to the compact size and lighter weight of the modules. There is also significant savings from the longer interval times between calibrations.

Anritsu's advanced True Mode Stimulus is available for the Vector**Star** ME7838A4. With the option, engineers can program two internal signals to deliver a true 180° (or 0° for common mode) differential signal for comprehensive device analysis.

About Anritsu

[Anritsu Company](#) is the United States 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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