News Release

Anritsu Enhances O/E Modules for VectorStar VNA Family to Address Optoelectronic Device Testing up to 110 GHz

— New Solution Serves as Economical Alternative for Verifying 56 Gb/s Components and Receivers During R&D and Manufacturing —

Morgan Hill, CA – September 28, 2015 – Anritsu Company enhances its MN4765B series of O/E modules for the MS4640B Vector**Star**® Vector Network Analyzer (VNA) family that creates a cost-effective and flexible solution for measuring 56 Gb/s components and transceivers used in telecommunications and data communications applications. The MN4765B module, combined with the MS4640B VNA, provides a simplified approach for optoelectronic measurements and is an economical alternative to conventional total-system approaches currently used in R&D and manufacturing environments.

Magnitude and phase characterization is acquired using a primary standard characterized by NIST and conducted in the Anritsu calibration lab. The result is improved measurement uncertainty when the MN4765B is used with Vector**Star** across the wide frequency range of the VNA. With the MN4765B module, the MS4640B can conduct highly accurate, traceable corrected transfer function, group delay, and return loss measurements of E/O and O/E components and subsystems.

The MN4765B optical modules are designed with an InGaAs photodiode that converts modulated optical signals to electrical signals. The photodiode has exceptional bandwidth response to 70 GHz and 110 GHz. Additional circuitry for temperature and bias stability are also incorporated into the modules.

Broadband Solution to be Available

Anritsu will also launch an option for the MN4765B that will allow the module to be used with the ME7838x series Broadband Vector**Star** VNA for accurate optoelectronic measurements over an industry-best 70 kHz to 110 GHz in the 1550 nm range. The broadband configuration extends the applications in which the optoelectronic solution can be used to universities and research labs. Because it uses a NIST-characterized photodiode as the primary standard, it is a superior approach to the current methods relying on a non-characterized diode resulting in uncertainties of 3-5 dB.

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Vector**Star** VNAs provide more accurate measurements over single-sweep frequency ranges of 70 kHz to 20 GHz, 40 GHz, 50 GHz, 70 GHz, 110 GHz, 145 GHz and a variety of discrete bands to 1.1 THz. Unlike other VNA solutions on the market, the Vector**Star** family is built on a stable, modern platform that can be easily upgraded across a range of functionality and performance. The MS4640B VNA series offers a high level of performance, so device modeling engineers can accurately and reliably characterize their devices. R&D engineers can achieve the last fraction of a dB out of their state-of-the-art designs and manufacturing engineers can maximize throughput without sacrificing accuracy.

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 instruments, as well as operation support systems for R&D, manufacturing, installation, and maintenance applications. 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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