

Anritsu Company Introduces VectorStar™-based Test Solution for Accurate Characterization of High-speed Optoelectronics

— *Optoelectronic Measurement Application Makes it Faster and More Cost-efficient to
Validate Performance of Optical Devices Used in Transmission Systems up to 40 Gb/s* —

Morgan Hill, CA – June 2, 2014 – Anritsu Company introduces an Optoelectronic Measurements application for its industry-leading VectorStar™ MS4640B Vector Network Analyzer (VNA) family that creates a unique test solution with the capability to characterize magnitude and phase of E/O and O/E devices up to 65 GHz. Flexible in its configuration, the VectorStar-based solution provides the most cost-efficient method for signal integrity engineers to conduct highly accurate measurements on domain-transfer devices, including optical modulators, direct modulated lasers, integrated transmitters, photodiodes and photo-receivers.

Anritsu designed the system to be used in a variety of applications. Integration of the MS4647B 70 GHz VectorStar and Anritsu MN4765A O/E calibration module characterized for 1550 nm in both magnitude and phase allows signal integrity engineers to test devices used in 40 Gb/s transmission systems. VectorStar 20 GHz models and 20 GHz characterized photodiodes can be used to cost-effectively measure optical devices for 2.5 Gb/s and 10 Gb/s applications.

To simplify calibration and achieve excellent stability and repeatability, VectorStar features internal de-embedding software that provides menus to guide the user through the full 12-term calibrations required for making E/O and O/E measurements. Measurement are stable within +/- 0.2 dB and measurement uncertainties are typically <1 dB and <8° at 50 GHz and <1.5 dB and <10° at 65 GHz.

The solution also incorporates an external characterized photodiode accessory that is traceable to a “golden” standard characterized by NIST. The result is highly accurate magnitude, phase, and group delay measurements on optoelectronic devices.

In addition to providing best-in-class performance, the solution has a much smaller footprint than alternative test systems. Cost-efficient, the VectorStar solution is approximately one-third the price of instruments that conduct similar measurements.

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Vector**Star** VNA models are available in frequency ranges from 70 kHz to 20, 40, 50 and 70 GHz, and as broadband systems from 70 kHz to 110, 125, and 145 GHz. Vector**Star** can also provide frequency coverage up to 1.1 THz, with mm-wave modules, depending on the specific frequency range required. They offer superior dynamic range up to 142 dB and high available power up to +14 dBm.

About Anritsu

[Anritsu Corporation](#) has been a provider of innovative communications solutions for more than 110 years. The company's test and measurement solutions include wireless, optical, microwave/RF and digital instruments, operations support systems and solutions that can be used during R&D, manufacturing, installation, and maintenance. Anritsu also provides precision microwave/RF components, optical devices, and high-speed devices for design into communication products and systems. With the addition of OSS monitoring solutions it has expanded its offering to provide complete solutions for existing and next-generation wireline and wireless communication systems and service providers. Anritsu sells in over 90 countries worldwide with approximately 4,000 employees.

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