Siglent Launches SNA5000X-E Vector Network Analyzer
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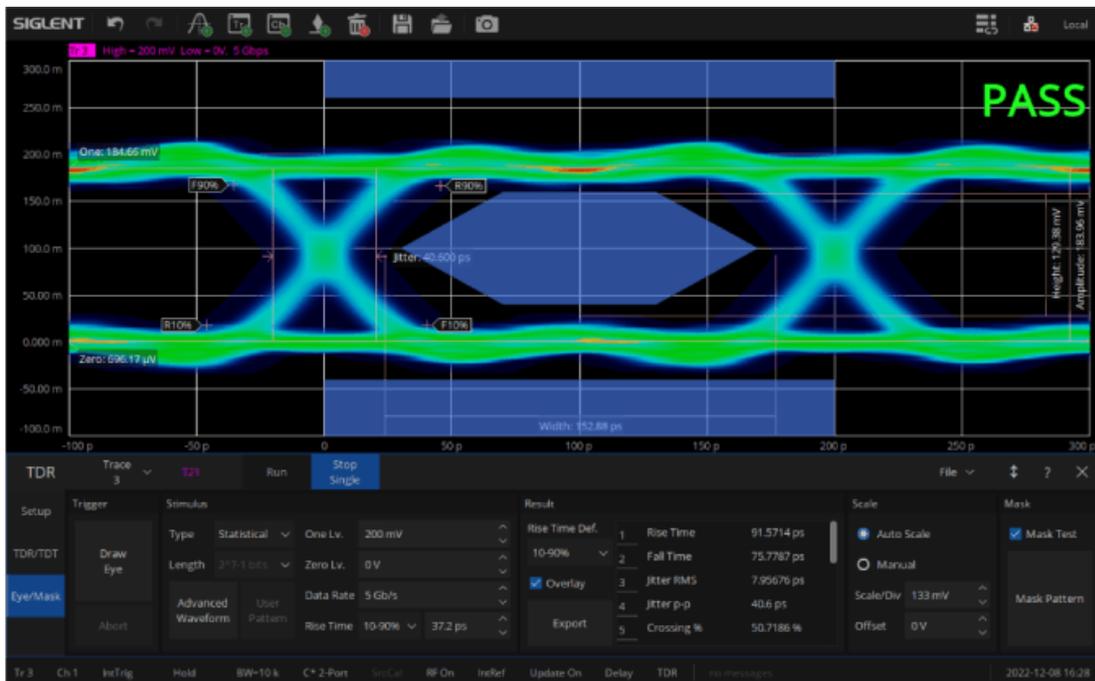**Compact, Cost-Effective 6.5 GHz VNA Delivering High Performance for R&D and Production**

Siglent Technologies officially announces the release of the **SNA5000X-E Vector Network Analyzer**, a compact and cost-effective solution designed to meet essential RF testing requirements without compromising performance. Covering a frequency range from 9 kHz to 6.5 GHz and delivering a typical dynamic range of 125 dB, the SNA5000X-E provides accurate, reliable measurements for R&D, education, and production environments.

Positioned as an entry-level model within the SNA5000 series, the SNA5000X-E retains the core performance architecture of the SNA5000A family while offering enhanced cost-effectiveness for standard vector network analysis applications. It supports 1 Hz frequency resolution, adjustable IF bandwidth from 1 Hz to 10 MHz, and an output power range from –40 dBm to +10 dBm. With its 125 dB typical dynamic range, the instrument maintains excellent measurement stability and accuracy even in complex RF test scenarios.

The SNA5000X-E supports comprehensive S-parameter and differential measurements, along with integrated time-domain analysis, enhanced time-domain analysis, and spectrum analysis functions. These capabilities enable engineers to evaluate frequency-domain characteristics, analyze impedance discontinuities, and quickly locate faults within devices under test. A built-in eye diagram function further supports high-speed signal integrity analysis, improving debugging efficiency during development.

To address fixture-induced measurement errors commonly encountered in RF testing, the SNA5000X-E

incorporates automatic fixture removal, port extension, de-embedding, and impedance conversion functions. These tools effectively compensate for cable delay and loss, minimizing systematic errors and ensuring high confidence in measurement results.

Designed for modern laboratories and production lines, the SNA5000X-E features a compact form factor with an instrument depth of only 12.6 cm and a weight of less than 5.4 kg. This significantly reduces workspace requirements compared to traditional network analyzers. The instrument is equipped with a 12.1-inch touchscreen that supports multi-window display and multiple data formats, creating an intuitive and efficient operating experience.

For production and automated test environments, the SNA5000X-E offers one-click filter characteristic analysis to quickly obtain key parameters such as insertion loss and bandwidth. It also supports custom formula operations and remote control via SCPI and WebServer, enabling seamless integration into automated systems and helping standardize and streamline testing workflows.

By returning to the fundamentals of vector network analysis, the SNA5000X-E combines essential performance, intelligent operation, and compact design in an economical solution. It provides a reliable, one-stop platform for applications ranging from R&D validation to batch quality inspection, enabling engineers to achieve professional RF measurement capability with optimized investment.

SIGLENT

North American Headquarters

SIGLENT Technologies NA
6557 Cochran Rd Solon, Ohio 44139
Tel: 440-398-5800
Toll Free:877-515-5551
Fax: 440-399-1211
info@siglent.com
www.siglentamerica.com/

European Sales Offices

SIGLENT TECHNOLOGIES GERMANY GmbH
Staetzlinger Str. 70
86165 Augsburg, Germany
Tel: +49(0)-821-666 0 111 0
Fax: +49(0)-821-666 0 111 22
info-eu@siglent.com
www.siglenteu.com

Asian Headquarters

SIGLENT TECHNOLOGIES CO., LTD.
Blog No.4 & No.5, Antongda Industrial Zone,
3rd Liuxian Road, Bao'an District,
Shenzhen, 518101, China.
Tel:+ 86 755 3661 5186
Fax:+ 86 755 3359 1582
sales@siglent.com
www.siglent.com/ens