

SNA5000A Vector Network Analyzer release

July 23, 2021

SIGLENT presents its first vector network analyzer and the first device of its new 'A' performance line

With the continuous growth of radio and cellular networks, the increase in data traffic and increasing data rates, the need for high-performance measurement technology is growing. Vector network analyzers are a key measuring device in the field of high frequency technology. Measurement of passive or active components, verification of 2-port networks or adaptation of antennas are just a few examples of where VNAs are required. The intuitive operating concept of the SNA5000A makes work easier and faster, and the large screen enables the results to be displayed clearly. The powerful hardware ensures accurate and reliable results.



July 20, 2021:

SIGLENT Technologies presents its first 2- or 4-port vector network analyzer. This innovation is an important and significant step for Siglent as the SNA increases Siglent's product breadth and is the first family of products introduced in the new 'A-Line'. This is expressed by the new suffix 'A' at the end of each model number. Several more A-series devices will follow in the next 18 months. Compared to the existing, very successful X-series devices, which focus on price-performance, the A-line focuses on quality, reliability and efficiency.

The SNA5000A network analyzer is offered as a 2- or 4-port device with frequency ranges from 9 kHz to 4.5 GHz or to 8.5 GHz. The dynamic range spans 125 dB and enables, for example, a precise analysis of the stopband of a filter without losing sight of the passband. The analyzers support 2/4 port S-parameters and differential S-parameter measurements. Time domain analyzes can be performed with the options SNA5000-TDA (Time Domain Analysis) or SNA5000-TDR (Enhanced Time Domain Analysis).

The accuracy of a network analyzer is very much linked to the accuracy of the calibration. Different calibration techniques are required for different applications. With the SNA5000A, the user can choose between 1-port, extended 1-port, full 2-port correction and the different techniques SOLT, SOLR, TRL in order to obtain the best accuracy for the respective application. An adjustable reference plane, port matching and the embedding / de-embedding of test sockets enable the elimination of external sources of error. The VNAs of the SNA5000A series offer five types of sweeps: linear and logarithmic frequency sweeps, output power sweeps, time domain sweeps and segmented sweeps. The formula editor and the mask test support the developer in the analysis of his test object and accelerate the evaluation and verification.



The large 12-inch touchscreen can be flexibly configured so that several windows with different measurements can be clearly displayed. The short-cut menu helps with configuration and offers quick access to the most important functions. The device supports an external mouse and keyboard, external monitor via HDMI, and can be controlled via the web interface from the PC. Further device details can be found under

[SNA5000A Vector Network Analyzer](#)

About:

SIGLENT TECHNOLOGIES started in 2002 with the development of their first oscilloscope. Now, the portfolio has rapidly expanded to cover many areas of general purpose test instrumentation, including oscilloscopes, signal and function generators, digital multimeters, lab power supplies, electronic DC-Loads, spectrum analyzers, VNAs and RF-signal generators.

With the A-Line introduced in 2021, Siglent is advancing further into the field of professional applications. Today SIGLENT TECHNOLOGIES is a global leader producing electronic test and measurement equipment that combines innovative features and functionality with a strong commitment to quality and performance. SIGLENT is ISO 9001:2000 and ISO 14001:2004 certified for its product quality and environmental management programs.



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