

New Midrange Network Analyzer Focus on Fast, Accurate Error Vector Magnitude Measurements



Keysight Technologies has introduced the [Keysight E5081A ENA-X](https://www.keysight.com/au/en/product/E5081A/ena-x-vector-network-analyzer.html), the midrange vector network analyzer (VNA) that produces fast, accurate error vector magnitude (EVM) measurements and accelerates the characterization of 5G component designs by up to 50%.

The new Keysight ENA-X addresses this need by giving RF engineers a midrange network analyzer platform with integrated modulation distortion analysis offering full vector correction at the device under test (DUT) plane in a single test setup. With a unique architecture, the ENA-X can perform multiple measurements with a single connection, which simplifies test setup, drives repeatability, and speeds testing.

Keysight ENA-X provides the following benefits:

- **Integrated solution** – Provides an integrated upconverter, direct receiver access, and modulated distortion analysis software enabling characterization of RF amplifier performance under complex modulation schemes in high-power systems operating at up to 44 GHz.
- **Simplified setup** – Offers a single test setup run with one connection and requiring only a single calibration that accelerates the characterization of PAs for 5G transmitters in the 5G NR FR1 and FR2 frequency bands by up to 50%
- **Accurate, repeatable results** – Builds on Keysight's metrology expertise with patented, custom monolithic microwave integrated circuits (MMIC) to provide the highest measurement accuracy, easily repeatable results, and the lowest residual EVM on the market.

Learn more at <https://www.keysight.com/au/en/product/E5081A/ena-x-vector-network-analyzer.html>

Keysight Introduces New Handheld Analyzer Enabling 120-MHz IQ Streaming for Gap-Free Signal Capture

Keysight Technologies has introduced the N99xxD-Series FieldFox Handheld Analyzer, the latest evolution of Keysight's trusted FieldFox family. Purpose-built for precision and portability, the new D-Series enables 120 MHz gap-free IQ streaming, high-speed data transfer, and seamless field-to-lab integration, setting a new benchmark for wideband signal analysis in demanding RF environments.

Key capabilities of the N99xxD-Series FieldFox handheld analyzer include:

- 120-MHz IQ streaming with built-in SFP+ high-speed data interfaces for 10 GbE data transfer, ensuring uninterrupted data capture and efficient streaming
- Wideband signal analysis and playback for advanced troubleshooting in complex RF environments, spectrum utilization monitoring, and interference detection
- Seamless field-to-lab workflow, enabling re-creation of real-world signal scenarios for in-depth lab analysis and system optimization
- Unmatched RF performance, delivering absolute amplitude accuracy of ± 0.1 dB — without warm-up — surpassing most handheld and benchtop analyzers currently in the market

The N99xxD-Series includes 14 models (combo or spectrum analyzers) to cover the maximum frequency of 14, 18, 26.5, 32, 44, 50, and 54 GHz. Each model supports more than 25 software-defined FieldFox applications, including vector network analysis, spectrum and real-time spectrum analysis, noise figure measurement, electromagnetic interference analysis, pulse signal generation, and direction-finding using techniques like angle of arrival (AoA) and time difference of arrival (TDoA). A Linux-based operating system further enhances the analyzer's security and file management, while a touchscreen interface improves usability, efficiency, and reduces errors.

Keysight has introduced advanced artificial intelligence (AI) capabilities to its FieldFox handheld analyzers and Keysight Spectrum Management Software (KSMS S9910A), delivering faster and smarter spectrum operations. By leveraging wideband signal capture and the new machine learning model (S9916A), the solution now classifies major wireless standards — including LTE, 5G NR, Wi-Fi, and Bluetooth — with exceptional speed and accuracy. This integration automatically and dramatically reduces time-to-resolution and provides deep insights into congested or contested spectrum environments, empowering customers to make informed decisions in real time.

Lear more at <https://www.keysight.com/au/en/product/N9918D/fieldfox-d-handheld-microwave-analyzer-26-5-ghz.html>

