Popular RF & Microwave Test Equipment for Aerospace & Defense

Advanced solutions for phase noise, noise figure, and device characterization

Noise Figure

Keysight PNA-X N5242B / N5244B / N5245B / N5247B with Noise Figure Measurements

- Covers up to 67 GHz to support radar, comms, and EW applications.

- Available with low-noise receivers for the highest-performance noise figure testing.

- Configurable test setups streamline workflows for multiple applications.

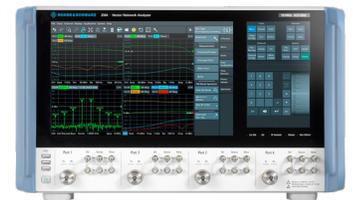- Rental/lease options available to preserve capital, even on long-term projects.

Keysight N8973B / N8974B / N8975B / N8976B Noise Figure Analyzer

- An industry standard for accurate noise figure measurements up to 40 GHz.

- Optimized for RF front-end validation in defense programs.

- Fast and repeatable test results minimize downtime in lab workflows.

- Widely adopted across defense contractors, ensuring compatibility with test protocols.

Rohde & Schwarz ZNA with Noise Figure Option

- Frequency coverage up to 67 GHz for next-gen RF systems.

- Available with 4 independently controllable sources for maximum flexibility.

- Ideal for both short-term rentals and multi-year defense projects.

Phase Noise

Keysight E5055A / E5058A Signal Source Analyzer

- Ultra-low phase noise measurement floor. Outstanding noise sensitivity with and without cross-correlation at supported frequency offsets.

- Frequency coverage to 26.5/44/54GHz supporting radar, satcom, and comms. Spectrum analysis, mmWave frequency extension, VCO characterization, transient measurement, and other optional capabilities are available.

- Increased measurement speed vs. previous models means faster throughput, particularly when using higher cross-correlation factors for best accuracy.

- Trusted across DoD radar and comms programs, ensuring interoperability and compliance. Streamlines test validation in secure A&D labs.

- Flexible rental model with certified calibration reduces use of capital while minimizing downtime.

Rohde & Schwarz FSWP8 / FSWP26 / FSWP50 Phase Noise Analyzer

- Available with Spectrum Analyzer and cross correlation options.

- World-class phase noise sensitivity, configurability, speed, and reliability combined with an intuitive and efficient user interface.

- Wideband coverage up to 56 GHz (extendable beyond 100 GHz with mixers).

- Seamless integration with other R&S systems for cohesive workflows.

Amplifiers

Amplifier Resesarch 250S6G18C High Power Amplifier

- 250-Watt CW solid-state amplifier.

- Covers 6–18 GHz frequency range with high linear output power.

- Optimized for EMC, RF stress, and aerospace/defense testing.

- Robust design with advanced thermal management for long-term reliability.

Device Characterization

Keysight E5080B / E5081A Vector Network Analyzer

- High-performance VNA for RF & microwave component and system testing.

- Frequency coverage up to 53 GHz with multiple upgrade paths.

- Fast sweep speeds and wide dynamic range improve throughput & accuracy.

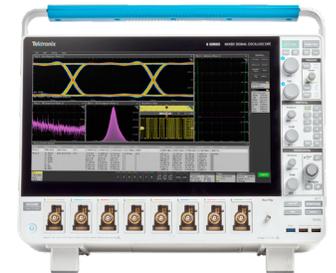- Accessories, calibration, and software add-ons available.

Rohde & Schwarz ZNB3000 Series Vector Network Analyzer

- Precision RF test platform is an ideal choice across defense use-cases, from R&D and design validation to production.

- Two and four port models up to 54GHz available.

- Excellent measurement accuracy, high output power, and configurability offer flagship performance on a limited budget.

- Outstanding measurement speed accelerates throughput in production environments, maximizing ROI.

Tektronix MSO6B Mixed Signal Oscilloscope

- High bandwidth up to 10 GHz with 50 GS/s sampling for advanced digital design.

- Up to 8 Flex-Channel inputs available, which can be used for analog or digital signals.

- Mixed-signal capability simplifies debugging across analog, digital, and RF domains.

- Configurable with precision probes for specialized validation tasks.

Driving Defense Readiness with Leading Test Instruments

Trusted Access. Mission-Ready Performance.

For more than 50 years, Electro Rent has been delivering fast, flexible, and cost-efficient access to the world's most advanced test and measurement technologies. Backed by accredited calibration labs, a dedicated team, and deep sector expertise, we are the trusted partner helping prime contractors and suppliers keep critical programs on track.

While priorities can shift overnight, engineering deadlines can't, so we provide high availability through our $1B+ global inventory and responsive DPAS DX-rated support. From a single specialized instrument to dozens of identical test systems, Electro Rent gives you the flexibility to pivot quickly, deploy leading technologies, and sustain mission readiness without compromise.

For classified work, we also support secure environments with removable drives and strict device sanitization.

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