

TEST EQUIPMENT RENTALS FOR ELECTRONIC WARFARE APPLICATIONS



Mitigate risk in EW programs by renting for IRAD, LRIP, and full rate production.



Keysight UXG Series



NI PXIe-5831



Northrop Grumman CEESIM-VPX

With cutting-edge testing tools, you can stay ahead of deadlines in testing and production. Specialized test equipment for emitter simulation can now be rented without the need to access CapEx funds. Contact us about these custom configurations today.

Keysight UXG Series

N5193A - UXG Agile Signal Generator, 20 and 40 GHz Models

N5194A - UXG Agile Vector Signal Adapter, 20 and 40 GHz Models

The UXG agile signal generator delivers unmatched performance in switching speed and phase control. To support realistic multi-threat scenarios, the UXG can switch frequency in as little as 370 ns. This is made possible by direct digital synthesis (DDS) technology and a Keysight proprietary digital-to-analog converter (DAC).

Key Features:

- Get closer to reality: simulate increasingly complex signal environments for radar, EW & antenna-test
- Test sooner & increase confidence in EW systems by generating signal simulations when you need them: the UXG is a scalable threat simulator
- Use pulse descriptor words (PDWs) to generate long pulse trains & individually control pulse characteristics
- Accurately simulate multi-threat environments: 180-ns PDW update rate, chirps 10 to 25% of carrier frequency, pulses as narrow as 10 ns
- Add vector capabilities with the N5194A.
- Multiple pulse-Doppler radars at different frequencies while maintaining the original phase as the UXG hops from one emitter frequency to another
- EW scenarios with thousands of radar threat-emitters and millions of pulses per second with unique antenna scans



Keysight UXG Series



NI PXIe-5831

PXI Vector Signal Transceiver, 44 GHz, 1 GHz Bandwidth

The PXIe-5831 supports validation and production test into mmWave frequency bands. It incorporates a vector signal generator, vector signal analyzer, and high-speed serial interface with FPGA-based, real-time signal processing and control.

The PXIe 5831 combines fast measurement speed and a small form factor with the flexibility and high performance of R&D caliber instruments. It is the ideal solution in both the lab and the production floor. The PXIe-5831 meets the stringent challenges of 5G New Radio, but it is also able to test a variety of cellular and wireless standards such as Wi-Fi 6. In addition, you can easily expand a test system in the PXI Express form factor to support multiple input, multiple output (MIMO) configurations with phase-coherent synchronization.



NI PXIe-5831

Key Features:

The PXIe-5831 IF and mmWave instrument configuration includes the following modules:

- PXIe-5820 Vector Signal Transceiver
- PXIe-3622 Vector Signal Up/Down Converter
- PXIe-5653 RF Analog Signal Generator (LO source)
- Two mmRH-5582 mmWave Radio Heads

Northrop Grumman CEESIM-VPX

CCVPX – Combat Electromagnetic Environment Simulator – 0.5 to 18 GHz, Single Channel, 4 Ports of Phase, Amplitude and TDOA Outputs

CEESIM provides the radio frequency (RF) simulation of multiple, simultaneous emitters linked to static/dynamic platforms required to faithfully simulate true combat conditions. Robust simulations offer the most affordable means of testing and validating the effectiveness of sophisticated electronic warfare equipment.

Overview

- CCVPX provides cost-effective EW threat stimulus with quick delivery
- High fidelity RF stimulus based on digital technology
- Full scenario/emitter compatibility with trusted and market tested CEESIM product line
- Provides compatibility with full-size CEESIM systems
- CEESIM and mini-RFGEN (mRFGEN) configurations available
- 20 MHz to 40 GHz frequency coverage
- Transport case or rack packaging available



Northrop Grumman CEESIM-VPX

Contact Us

Contact us today to learn more about our complete portfolio of cross-industry testing products. Our experts and application engineers are available to assist with your product testing and financing needs. You can reach us at electrorent.com, sales.na@electrorent.com, or by phone at **1.800.553.2255**.